

Ms. Amy Hadiaris
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Subject:
2017 Fourth Quarter Groundwater Sampling Summary; Ford Twin Cities
Assembly Plant, St. Paul, Minnesota

ENVIRONMENT

Dear Ms. Hadiaris:

Date:
April 20, 2018

Arcadis U.S., Inc. (Arcadis) on behalf of Ford Motor Company is submitting this letter report to summarize the results of the 2017 fourth quarter groundwater sampling event conducted at the Ford Twin Cities Assembly Plant in St. Paul, Minnesota (TCAP, Site); see **Figure 1**. Groundwater monitoring activities were conducted on the Main Parcel and Area C on December 11 through 21, 2017. The purpose of the site-wide sampling event is to monitor groundwater quality and determine if former activities at the TCAP caused impacts at concentrations that exceed applicable risk-based screening standards promulgated by the Minnesota Pollution Control Agency (MPCA).

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Our ref:
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Site Location

The Site is located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota at the approximate easting coordinate 484562.5 meters (m) and northing coordinate 4973822.5 m. The Site is located in a mixed industrial, commercial, and residential use area on the eastern shore of the Mississippi River, along the east and west sides of South Mississippi River Boulevard, south of Ford Parkway and west of South Cleveland Avenue, in St. Paul, Minnesota (**Figure 1**).

Groundwater Monitoring

The permanent monitoring wells on-Site are within three geologic units: unconsolidated soils (Area C overburden wells), St. Peter Sandstone, and

Platteville Limestone. Each monitoring well was gauged from the top of casing using an electronic water-level meter to within 0.01 foot on December 11, 2017.

Following the gauging, groundwater samples were collected from 10 Area C overburden monitoring wells, and 16 St. Peter Sandstone / Platteville Limestone monitoring wells, between December 11 and 21, 2017. In addition, Arcadis submitted eighteen trip blanks and three blind duplicate samples during the sampling event. One St. Peter Sandstone monitoring well (AMW-05) did not contain water and was not sampled during the December 2017 sampling event.

Groundwater sampling at the 26 monitoring wells was conducted using low-flow sampling techniques if possible or a volume purge method with downhole pumps or bailers if needed. Field parameters were collected using a Yellow Springs Instruments (YSI) Model 556 multi-parameter probe with a flow-through cell. Groundwater sampling logs are included as **Attachment 1**.

Groundwater samples were containerized in laboratory supplied sample jars and submitted on ice under chain-of-custody protocols to the TestAmerica Canton, Ohio laboratory on a standard 10-day turnaround time (TAT) for the following analytes:

- Volatile organic compounds (VOCs) using USEPA Method 8260,
- Semi-volatile organic compounds (SVOCs) using USEPA Method 8270,
- Dissolved Target Analyte List (TAL) metals using USEPA Method 6010,
- Gasoline range organics (GRO) using WI Modified Method,
- Diesel Range Organics (DRO) using WI Modified Method,
- Polychlorinated biphenyls (PCBs) using USEPA Method 8082, and
- Cyanide using USEPA Method 9012A.

The laboratory analytical reports are presented in **Attachment 2**.

Results

Groundwater Elevations

Depth-to-water measurements obtained on December 11, 2017 are presented in **Table 1**. The direction of groundwater flow was to the west-southwest towards the Mississippi River. See **Figures 2 and 3**, respectively, for the potentiometric map of the St. Peter sandstone monitoring wells on the Main Parcel and Area C, and the unconsolidated soils monitoring wells on the River Parcel (Area C overburden).

Groundwater Quality

Analytical results of groundwater samples collected from monitoring wells on December 11 through 21, 2017 are compared to the MPCA Class 2B water quality standards, summarized in **Table 2** and exceedances are depicted on **Figures 4 and 5**. The laboratory analytical report and chain-of-custody documents are included in **Attachment 2**.

Concentrations of VOCs were detected above MPCA Class 2B waters criteria in one monitoring well (ethylbenzene at AMW-25). Concentrations of select metals (aluminum, cobalt, copper, nickel and thallium) were detected above MPCA Class 2B waters criteria in four monitoring wells (AMW-05B, AMW-07, AMW-29, and AMW-30). Cyanide was detected at an estimated concentration above MPCA Class 2B waters criteria in one monitoring well (AMW-25).

No analytes, other than those reported above, were detected above MPCA Class 2B waters criteria during this sampling event.

Analytical results were generally similar to historic results collected at the Site. An increase in trichloroethene (120 micrograms per liter [ug/L]) and cis-1,2-dichloroethene (640 ug/L) was noted at AMW-06 relative to historical concentrations at that well, which is screened in the Platteville Limestone. The detected concentrations were below MPCA Class 2B standards and similar increases relative to historic detections were not detected in the nearby St. Peter Sandstone wells (AMW-05B, AMW-30 and AMW-31). These increasing concentrations may be related to additional surficial infiltration through impacted overburden material following removal of the building slab. Removal of impacted overburden on the Main Parcel is currently ongoing and nearing completion so a stabilization and decrease in these concentrations is anticipated. Additional groundwater monitoring at these Platteville Limestone and St. Peter Sandstone wells will be completed as discussed in the conclusions below to further evaluate these trends.

Relatively higher aluminum concentrations that exceed the Class 2B waters criteria were also detected at three St. Peter Sandstone wells (AMW-07, AMW-29 and AMW-30) compared to historical results. Aluminum was not detected at downgradient wells closer to the Mississippi River. Collection of additional data for development of a site-specific aluminum criteria is currently being considered in conjunction with the MPCA. Aluminum will continue to be analyzed in all wells in future sampling events discussed in the conclusions below.

Quality Analysis and Quality Control

A detailed review of the CADENA verification reports/Test America analytical reports submitted with this report identified minor quality assurance/quality control (QA/QC) non-compliance issues for contaminant of concern analytes that would result in the estimation of that data but would still be considered usable. Therefore, the analytical data are considered reliable and acceptable for use. A complete review of the QA/QC process that was completed is included in **Attachment 3**.

Conclusions

Additional groundwater monitoring activities for the Site will continue 2018 in accordance with workplans currently being developed for submittal to the MPCA. The first quarter 2018 groundwater sampling event for the Area C wells was completed the week of March 19, 2018. Results will be reported in the second quarter of 2018.

I appreciate your assistance with this project. If you have questions or need additional information, please call Ryan Oesterreich of Arcadis at 612.373.0225 at your convenience.

Sincerely,



Ryan Oesterreich, PE, PG
Senior Environmental Engineer
Arcadis U.S., Inc.

April 20, 2018

Copies:

Shanna Schmitt, MPCA

Chuck Pinter, Ford Motor Company

Kris Hinskey, Arcadis

Enclosures:

Tables

- 1 December 2017 Groundwater Elevations
- 2 December 2017 Groundwater Analytical Results

Figures

- 1 Site Location/Property Layout
- 2 Main Parcel Potentiometric Surface Map – December 2017
- 3 Area C Potentiometric Surface Map – December 2017
- 4 Site-Wide Groundwater Exceedances – December 2017
- 5 River Parcel Groundwater Exceedances – September and December 2017

Attachments

- 1 Field Sampling Logs
- 2 Laboratory Analytical Reports
- 3 Data Quality Assessment/Data Usability Evaluation

Table 1
December 2017 Groundwater Elevations
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID	Top of Casing Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to Water (ft. btoc)	Groundwater Elevation (ft. amsl)
AMW-01	813.03	29 - 39	12/11/2017	26.18	786.85
AMW-02	812.86	30 - 40	12/11/2017	27.22	785.64
AMW-03A	811.80	30 - 40	12/11/2017	17.92	793.88
AMW-03B	811.72	141 - 151	12/11/2017	99.30	712.42
AMW-04	829.92	51 - 61	12/11/2017	36.15	793.77
AMW-05	725.25	19 - 29	12/11/2017	DRY	NA
AMW-05B	723.99	43 - 53	12/11/2017	31.03	692.96
AMW-06	814.06	31 - 41	12/11/2017	25.07	788.99
AMW-07	733.48	35 - 45	12/11/2017	41.54	691.94
AMW-08	830.80	35 - 45	12/11/2017	38.01	792.79
AMW-09	858.13	80 - 90	12/11/2017	79.66	778.47
AMW-10	811.27	30 - 40	12/11/2017	18.87	792.40
AMW-19	707.84	14.3 - 24.3	12/11/2017	19.39	688.45
AMW-20	710.02	13.5 - 23.5	12/11/2017	21.31	688.71
AMW-21	739.40	46 - 56	12/11/2017	50.43	688.97
AMW-22	707.29	16 - 26	12/11/2017	18.65	688.64
AMW-22B	707.34	33 - 43	12/11/2017	18.59	688.75
AMW-23	710.72	16 - 26	12/11/2017	22.15	688.57
AMW-23B	711.12	36 - 46	12/11/2017	22.63	688.49
AMW-24	707.79	13 - 23	12/11/2017	18.51	689.28
AMW-25	705.73	12 - 22	12/11/2017	16.45	689.28
AMW-26	769.15	77 - 87	12/11/2017	80.12	689.03
AMW-27	810.93	94 - 104	12/11/2017	98.20	712.73
AMW-28	813.75	105 - 115	12/11/2017	102.04	711.71
AMW-29	815.16	111 - 121	12/11/2017	113.83	701.33
AMW-30	814.75	109 - 119	12/11/2017	112.44	702.31
AMW-31	814.52	110 - 120	12/11/2017	104.25	710.27

Notes:

Water level measurements collected from top of well casing.

Abbreviations:

ft. amsl Feet above mean sea level
ft. bgs Feet below ground surface
ft. btoc Feet below top of casing
NA Not applicable

Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID:	Units	Class 2B Waters			AMW-01	AMW-02	AMW-03A	AMW-03B	AMW-04	AMW-05B	AMW-06
Sample ID:					AMW-01(20171220)	AMW-02(20171219)	AMW-03(20171212)	AMW-03B(20171212)	AMW-04(20171218)	AMW-05B(20171215)	AMW-06(20171219)
Sample Date:		CS	MS	FAV	12/20/2017	12/19/2017	12/12/2017	12/12/2017	12/18/2017	12/15/2017	12/19/2017
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1,1-Trichloroethane	ug/l	329	2,957	5,913	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1,2,2-Tetrachloroethane	ug/l	13	1,127	2,253	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1,2-trichloro-1,2,2-trifluoroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1,2-Trichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1-Dichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,1-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2,3-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2,3-Trichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2,4-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2,4-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2-Dibromo-3-chloropropane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 67
1,2-Dibromoethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2-Dichloroethane	ug/l	190	45,050	90,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,3,5-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,3-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,3-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
1,4-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
2,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
2-Butanone (MEK)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 330
2-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
4-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
4-Methyl-2-Pentanone	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 330
Acetone	ug/l	NS	NS	NS	< 10	2.3 J	2.5 J	1.9 J	< 10	< 10	< 330
Allyl chloride	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 67
Benzene	ug/l	114	4,487	8,974	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Bromobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Bromochloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Bromodichloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Bromoform	ug/l	466	2,900	5,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Bromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Carbon Disulfide	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Carbon Tetrachloride	ug/l	5.9	1,750	3,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
CFC-11	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
CFC-12	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Chlorobenzene	ug/l	20	423	846	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33

See Notes on Last Page.

Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota



Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-01 AMW-01(20171220)	AMW-02 AMW-02(20171219)	AMW-03A AMW-03(20171212)	AMW-03B AMW-03B(20171212)	AMW-04 AMW-04(20171218)	AMW-05B AMW-05B(20171215)	AMW-06 AMW-06(20171219)
		CS	MS	FAV	12/20/2017	12/19/2017	12/12/2017	12/12/2017	12/18/2017	12/15/2017	12/19/2017
Chlorodibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Chloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Chloroform	ug/l	155	1,392	2,784	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Chloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
cis-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	0.68 J	< 1.0	< 1.0	< 1.0	640
cis-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Cyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Cymene (p-Isopropyltoluene)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Dibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Dichloromethane	ug/l	1,940	13,875	27,749	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18 J
Dichloromonofluoromethane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 67
Diethyl ether	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 67
Ethylbenzene	ug/l	68	1,859	3,717	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Isopropylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
m&p-Xylenes	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 67
Methyl Acetate	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 330
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 330
Methylcyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Methyl-tert-butylether	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Naphthalene	ug/l	81	409	818	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
n-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
n-Propylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
o-Xylene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
sec-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Styrene (Monomer)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
tert-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Tetrachloroethene	ug/l	8.9	428	857	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Tetrahydrofuran	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 170
Toluene	ug/l	253	1,352	2,703	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
trans-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
trans-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
Trichloroethene	ug/l	120	6,988	13,976	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.6	120
Vinyl chloride	ug/l	9.2	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 33
SVOCs											
1,1-Biphenyl	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
2,2-Oxybis(1-Chloropropane)	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
2,4,5-Trichlorophenol	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4,6-Trichlorophenol	ug/l	2.0	102	203	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4-Dichlorophenol	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9

See Notes on Last Page.

Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:		Class 2B Waters			AMW-01	AMW-02	AMW-03A	AMW-03B	AMW-04	AMW-05B	AMW-06
					AMW-01(20171220)	AMW-02(20171219)	AMW-03(20171212)	AMW-03B(20171212)	AMW-04(20171218)	AMW-05B(20171215)	AMW-06(20171219)
		CS	MS	FAV	12/20/2017	12/19/2017	12/12/2017	12/12/2017	12/18/2017	12/15/2017	12/19/2017
2,4-Dimethylphenol	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2,4-Dinitrophenol	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4-Dinitrotoluene	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,6-Dinitrotoluene	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2-Chloronaphthalene	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
2-Chlorophenol	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
2-Methyl-4,6-dinitrophenol	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2-Methylnaphthalene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
2-Methylphenol	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
2-Nitroaniline	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2-Nitrophenol	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
3,3-Dichlorobenzidine	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
3-Methylphenol, 4-Methylphenol	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
3-Nitroaniline	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Bromophenyl phenyl ether	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Chloro-3-Methylphenol	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitroaniline	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitrophenol	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Acenaphthene	ug/l	20	56	112	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Acenaphthylene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Acetophenone	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Anthracene	ug/l	0.035	0.32	0.63	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Atrazine	ug/l	10	323	645	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Benzaldehyde	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Benzo(a)anthracene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(b)fluoranthene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(g,h,i)perylene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(k)fluoranthene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
bis(2-Chloroethyl)ether	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
bis(2-Ethylhexyl)phthalate	ug/l	2.1	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Butyl benzyl phthalate	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Caprolactam	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Carbazole	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Chrysene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzo(a,h)anthracene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzofuran	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Diethyl phthalate	ug/l	NS	NS	NS	< 2.3	< 1.9 UB	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-01	AMW-02	AMW-03A	AMW-03B	AMW-04	AMW-05B	AMW-06
					AMW-01(20171220)	AMW-02(20171219)	AMW-03(20171212)	AMW-03B(20171212)	AMW-04(20171218)	AMW-05B(20171215)	AMW-06(20171219)
		CS	MS	FAV	12/20/2017	12/19/2017	12/12/2017	12/12/2017	12/18/2017	12/15/2017	12/19/2017
Dimethyl phthalate	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Di-n-butyl phthalate	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Di-n-octyl phthalate	ug/l	30	825	1,650	< 2.3	< 1.9	< 1.9 J	< 1.9 J	< 1.9	< 1.9	< 1.9
Fluoranthene	ug/l	1.9	3.5	6.9	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Fluorene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Hexachlorobenzene	ug/l	0.00024	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Hexachlorocyclopentadiene	ug/l	NS	NS	NS	< 11	< 9.5	< 9.5	< 9.5	< 9.5	< 9.6	< 9.5
Hexachloroethane	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Indeno(1,2,3-cd)pyrene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Isophorone	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Naphthalene	ug/l	81	409	818	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Nitrobenzene	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
N-Nitrosodi-n-propylamine	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
N-Nitrosodiphenylamine	ug/l	NS	NS	NS	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
p-Chloroaniline	ug/l	NS	NS	NS	< 2.3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Pentachlorophenol	ug/l	NS	NS	NS	< 5.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Phenanthrene	ug/l	3.6	32	64	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Phenol	ug/l	123	2,214	4,428	< 1.1	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.95
Pyrene	ug/l	NS	NS	NS	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene (BaP) Equivalents	ug/l	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
Dissolved Metals											
Aluminum	ug/l	125	1,072	2,145	< 200 UB	< 200	< 200	< 200	< 200	< 200	< 200
Antimony	ug/l	31	90	180	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic	ug/l	53	360	720	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Barium	ug/l	NS	NS	NS	89 J	73 J	110 J	75 J	75 J	55 J	53 J
Beryllium	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	ug/l	2.0	65	130	0.26 J	0.25 J	0.30 J	< 5.0	< 5.0	< 5.0	< 5.0
Calcium	ug/l	NS	NS	NS	110,000	83,000	96,000	66,000	100,000	130,000	55,000
Chromium	ug/l	11	16	32	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cobalt	ug/l	5.0	436	872	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	8.7	< 7.0
Copper	ug/l	14	31	62	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Iron	ug/l	NS	NS	NS	1,300	5,400	1,700	840	4,300	4,900	280
Lead	ug/l	7.0	173	346	< 3.0	< 3.0	< 3.0	1.9 J	< 3.0	< 3.0	< 3.0
Magnesium	ug/l	NS	NS	NS	52,000	42,000	44,000	22,000	38,000	42,000	37,000
Manganese	ug/l	NS	NS	NS	410	120	180	70	66	180	75
Mercury	ug/l	0.0069	2.4	4.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	ug/l	259	2,332	4,664	< 40	< 40	< 40	< 40	< 40	11 J	< 40
Potassium	ug/l	NS	NS	NS	5,800	3,300 J	3,900 J B	1,600 J B	4,700 J	4,000 J	5,600
Silver	ug/l	1.0	6.0	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-01	AMW-02	AMW-03A	AMW-03B	AMW-04	AMW-05B	AMW-06
					AMW-01(20171220)	AMW-02(20171219)	AMW-03(20171212)	AMW-03B(20171212)	AMW-04(20171218)	AMW-05B(20171215)	AMW-06(20171219)
		CS	MS	FAV	12/20/2017	12/19/2017	12/12/2017	12/12/2017	12/18/2017	12/15/2017	12/19/2017
Sodium	ug/l	NS	NS	NS	4,100 J	30,000	18,000 B	2,800 J B	15,000	38,000	20,000
Vanadium	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Zinc	ug/l	174	193	385	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Selenium	ug/l	5.0	20	40	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.1 J	< 5.0
Thallium	ug/l	0.56	64	128	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH											
Diesel Range Organics	ug/l	NS	NS	NS	370	170	73.0 J B	49 J B	< 95 UB	< 95 UB	230
Gasoline Range Organics	ug/l	NS	NS	NS	< 100	< 100	< 100	< 100	< 100	< 100	250
PCBs											
Aroclor 1016	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1221	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1232	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1242	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1248	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1254	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Aroclor 1260	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
Other											
Cyanide	ug/l	5.2	22	45	< 10	< 10	< 10 UB	< 10 UB	< 10	< 10 UB	< 10

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID:	Units	Class 2B Waters			AMW-07	AMW-08	AMW-09	AMW-10	AMW-19	AMW-20	AMW-21
Sample ID:					AMW-07(20171215)	AMW-08(20171221)	AMW-09(20171221)	AMW-10(20171212)	AMW-19(20171213)	AMW-20(20171214)	AMW-21(20171215)
Sample Date:		CS	MS	FAV	12/15/2017	12/21/2017	12/21/2017	12/12/2017	12/13/2017	12/14/2017	12/15/2017
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	ug/l	329	2,957	5,913	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	13	1,127	2,253	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2,3-Trichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2,4-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2,4-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
1,2-Dibromoethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2-Dichloroethane	ug/l	190	45,050	90,100	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,3,5-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,3-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,4-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
2,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
2-Butanone (MEK)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10		< 10	< 10
2-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
4-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
4-Methyl-2-Pentanone	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10		< 10	< 10
Acetone	ug/l	NS	NS	NS	< 10	5.8 J	< 10	2.5 J	2.9 J	3.4 J	< 10
Allyl chloride	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	ug/l	114	4,487	8,974	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	ug/l	466	2,900	5,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	ug/l	NS	NS	NS	< 1.0	< 1.0	0.71 J	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	ug/l	5.9	1,750	3,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	ug/l	20	423	846	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:					AMW-07	AMW-08	AMW-09	AMW-10	AMW-19	AMW-20	AMW-21
		Class 2B Waters			AMW-07(20171215)	AMW-08(20171221)	AMW-09(20171221)	AMW-10(20171212)	AMW-19(20171213)	AMW-20(20171214)	AMW-21(20171215)
	Units	CS	MS	FAV	12/15/2017	12/21/2017	12/21/2017	12/12/2017	12/13/2017	12/14/2017	12/15/2017
Chlorodibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	ug/l	155	1,392	2,784	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J
cis-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	ug/l	1,940	13,875	27,749	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	ug/l	68	1,859	3,717	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	81	409	818	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	ug/l	8.9	428	857	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	ug/l	253	1,352	2,703	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	ug/l	120	6,988	13,976	8.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	ug/l	9.2	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SVOCs											
1,1-Biphenyl	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
2,2-Oxybis(1-Chloropropane)	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
2,4,5-Trichlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
2,4,6-Trichlorophenol	ug/l	2.0	102	203	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
2,4-Dichlorophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0 J	< 1.9

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Ford Motor Company - Twin Cities Assembly Plant
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St. Paul, Minnesota



Location ID: Sample ID: Sample Date:					AMW-07	AMW-08	AMW-09	AMW-10	AMW-19	AMW-20	AMW-21
		Class 2B Waters			AMW-07(20171215)	AMW-08(20171221)	AMW-09(20171221)	AMW-10(20171212)	AMW-19(20171213)	AMW-20(20171214)	AMW-21(20171215)
		CS	MS	FAV	12/15/2017	12/21/2017	12/21/2017	12/12/2017	12/13/2017	12/14/2017	12/15/2017
2,4-Dimethylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0 J	< 1.9
2,4-Dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
2,4-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9	< 4.8
2,6-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9	< 4.8
2-Chloronaphthalene	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
2-Chlorophenol	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98 J	< 0.95
2-Methyl-4,6-dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
2-Methylnaphthalene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
2-Methylphenol	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98 J	< 0.95
2-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
2-Nitrophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0 J	< 1.9
3,3-Dichlorobenzidine	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9	< 4.8
3-Methylphenol, 4-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0 J	< 1.9
3-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
4-Bromophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
4-Chloro-3-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0 J	< 1.9
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
4-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
4-Nitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
Acenaphthene	ug/l	20	56	112	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Acenaphthylene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Acetophenone	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Anthracene	ug/l	0.035	0.32	0.63	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Atrazine	ug/l	10	323	645	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
Benzaldehyde	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
Benzo(a)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Benzo(a)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Benzo(b)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Benzo(g,h,i)perylene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Benzo(k)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
bis(2-Chloroethyl)ether	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
bis(2-Ethylhexyl)phthalate	ug/l	2.1	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9	< 4.8
Butyl benzyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
Caprolactam	ug/l	NS	NS	NS	< 4.8	1.3 J	NA	< 4.8 R	< 4.8	< 4.9	< 4.8
Carbazole	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Chrysene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Dibenzo(a,h)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Dibenzofuran	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Diethyl phthalate	ug/l	NS	NS	NS	< 1.9	1.2 J	NA	< 1.9	< 1.9	< 2.0	< 1.9

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Location ID:	Units	Class 2B Waters			AMW-07	AMW-08	AMW-09	AMW-10	AMW-19	AMW-20	AMW-21
Sample ID:					AMW-07(20171215)	AMW-08(20171221)	AMW-09(20171221)	AMW-10(20171212)	AMW-19(20171213)	AMW-20(20171214)	AMW-21(20171215)
Sample Date:		CS	MS	FAV	12/15/2017	12/21/2017	12/21/2017	12/12/2017	12/13/2017	12/14/2017	12/15/2017
Dimethyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
Di-n-butyl phthalate	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9	< 4.8
Di-n-octyl phthalate	ug/l	30	825	1,650	< 1.9	< 1.9	NA	< 1.9 J	< 1.9	< 2.0	< 1.9
Fluoranthene	ug/l	1.9	3.5	6.9	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Fluorene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Hexachlorobenzene	ug/l	0.00024	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Hexachlorocyclopentadiene	ug/l	NS	NS	NS	< 9.5	< 9.5	NA	< 9.5	< 9.5	< 9.8	< 9.5
Hexachloroethane	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Indeno(1,2,3-cd)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Isophorone	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
Naphthalene	ug/l	81	409	818	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Nitrobenzene	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
N-Nitrosodi-n-propylamine	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
N-Nitrosodiphenylamine	ug/l	NS	NS	NS	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98	< 0.95
p-Chloroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 2.0	< 1.9
Pentachlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	NA	< 4.8	< 4.8	< 4.9 J	< 4.8
Phenanthrene	ug/l	3.6	32	64	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Phenol	ug/l	123	2,214	4,428	< 0.95	< 0.95	NA	< 0.95	< 0.95	< 0.98 J	< 0.95
Pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.20	< 0.19
Benzo(a)pyrene (BaP) Equivalents	ug/l	NS	NS	NS	ND	ND	NA	ND	ND	ND	ND
Dissolved Metals											
Aluminum	ug/l	125	1,072	2,145	11,000	< 200	< 200	< 200	< 200	< 200	< 200
Antimony	ug/l	31	90	180	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic	ug/l	53	360	720	< 10	< 10	4.4 J	< 10	< 10	< 10	< 10
Barium	ug/l	NS	NS	NS	15 J	52 J	82 J	95 J	140 J	190 J	34 J
Beryllium	ug/l	NS	NS	NS	2.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	ug/l	2.0	65	130	0.60 J	< 5.0	0.33 J	< 5.0	< 5.0	< 5.0	< 5.0
Calcium	ug/l	NS	NS	NS	96,000	51,000	210,000	120,000	140,000	170,000	140,000
Chromium	ug/l	11	16	32	2.3 J	< 10	< 10	< 10	< 10	< 10	< 10
Cobalt	ug/l	5.0	436	872	25	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0
Copper	ug/l	14	31	62	5.0 J	< 25	< 25	< 25	< 25	< 25	< 25
Iron	ug/l	NS	NS	NS	70 J	48 J	34 J	4,800	< 100	190	580
Lead	ug/l	7.0	173	346	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium	ug/l	NS	NS	NS	39,000	52,000	73,000	45,000	40,000	49,000	40,000
Manganese	ug/l	NS	NS	NS	240	66	63	120	85	810	2,000
Mercury	ug/l	0.0069	2.4	4.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	ug/l	259	2,332	4,664	90	< 40	< 40	< 40	< 40	4.0 J	3.5 J
Potassium	ug/l	NS	NS	NS	4,900 J	14,000	18,000	2,600 J B	3,000 J	3,200 J	4,900 J
Silver	ug/l	1.0	6.0	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Location ID: Sample ID: Sample Date:					AMW-07	AMW-08	AMW-09	AMW-10	AMW-19	AMW-20	AMW-21
		Class 2B Waters			AMW-07(20171215)	AMW-08(20171221)	AMW-09(20171221)	AMW-10(20171212)	AMW-19(20171213)	AMW-20(20171214)	AMW-21(20171215)
		CS	MS	FAV	12/15/2017	12/21/2017	12/21/2017	12/12/2017	12/13/2017	12/14/2017	12/15/2017
Sodium	ug/l	NS	NS	NS	14,000	15,000	44,000	22,000 B	34,000	47,000	28,000
Vanadium	ug/l	NS	NS	NS	< 10	7.0 J B ^	< 10	< 10	< 10	< 10	< 10
Zinc	ug/l	174	193	385	140	< 50	< 50	< 50	< 50	< 50	< 50
Selenium	ug/l	5.0	20	40	2.8 J	1.5 J	< 5.0	< 5.0	1.2 J	< 5.0	< 5.0
Thallium	ug/l	0.56	64	128	2.9	0.21 J ^	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH											
Diesel Range Organics	ug/l	NS	NS	NS	< 95 UB	NA	370	480 B	82 J B	72 J B	< 95 UB
Gasoline Range Organics	ug/l	NS	NS	NS	< 100	< 100	< 100	< 100	< 100	220	< 100
PCBs											
Aroclor 1016	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1221	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1232	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1242	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1248	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1254	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Aroclor 1260	ug/l	0.000029	1.0	2.0	< 0.20	NA	NA	< 0.19	< 0.19	< 0.21	< 0.19
Other											
Cyanide	ug/l	5.2	22	45	< 10 UB	< 10	< 10	< 10 UB	2.0 J	2.6 J	< 10 UB

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Location ID:	Units	Class 2B Waters			AMW-22	AMW-22B	AMW-23	AMW-23B	AMW-24	AMW-25	AMW-26
Sample ID:					AMW-22(20171213)	AMW-22B(20171213)	AMW-23(20171214)	AMW-23B(20171214)	AMW-24(20171214)	AMW-25(20171214)	AMW-26(20171215)
Sample Date:		CS	MS	FAV	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/15/2017
VOCs											
1,1,1,2-Tetrachloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1,1-Trichloroethane	ug/l	329	2,957	5,913	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	13	1,127	2,253	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1,2-Trichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1-Dichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,1-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2,3-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2,3-Trichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2,4-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2,4-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	70	< 1.0
1,2-Dibromo-3-chloropropane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0
1,2-Dibromoethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2-Dichloroethane	ug/l	190	45,050	90,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,3,5-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,3-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,3-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
1,4-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
2,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
2-Butanone (MEK)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 50	< 10
2-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
4-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
4-Methyl-2-Pentanone	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Acetone	ug/l	NS	NS	NS	3.6 J	4.2 J	2.9 J	2.8 J	3.3 J	< 50	< 10
Allyl chloride	ug/l	NS	NS	NS	< 2.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0
Benzene	ug/l	114	4,487	8,974	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Bromobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Bromochloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Bromodichloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Bromoform	ug/l	466	2,900	5,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Bromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Carbon Disulfide	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Carbon Tetrachloride	ug/l	5.9	1,750	3,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
CFC-11	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
CFC-12	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Chlorobenzene	ug/l	20	423	846	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	3.7

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-22 AMW-22(20171213)	AMW-22B AMW-22B(20171213)	AMW-23 AMW-23(20171214)	AMW-23B AMW-23B(20171214)	AMW-24 AMW-24(20171214)	AMW-25 AMW-25(20171214)	AMW-26 AMW-26(20171215)
		CS	MS	FAV	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/15/2017
Chlorodibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Chloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Chloroform	ug/l	155	1,392	2,784	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Chloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
cis-1,2-Dichloroethene	ug/l	NS	NS	NS	1.1	0.58 J *	< 1.0	< 1.0	< 1.0	< 5.0	1.1
cis-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Cyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Cymene (p-Isopropyltoluene)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Dibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Dichloromethane	ug/l	1,940	13,875	27,749	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Dichloromonofluoromethane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0
Diethyl ether	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0
Ethylbenzene	ug/l	68	1,859	3,717	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	79	< 1.0
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Isopropylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.1	< 1.0
m&p-Xylenes	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	49	< 2.0
Methyl Acetate	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methylcyclohexane	ug/l	NS	NS	NS	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Methyl-tert-butylether	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Naphthalene	ug/l	81	409	818	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
n-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	120	< 1.0
n-Propylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	36	< 1.0
o-Xylene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
sec-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12	< 1.0
Styrene (Monomer)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
tert-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Tetrachloroethene	ug/l	8.9	428	857	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Tetrahydrofuran	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0
Toluene	ug/l	253	1,352	2,703	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
trans-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
trans-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Trichloroethene	ug/l	120	6,988	13,976	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
Vinyl chloride	ug/l	9.2	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
SVOCs											
1,1-Biphenyl	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
2,2-Oxybis(1-Chloropropane)	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
2,4,5-Trichlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
2,4,6-Trichlorophenol	ug/l	2.0	102	203	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
2,4-Dichlorophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 J	< 1.9	< 1.9	< 1.9

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota



Location ID: Sample ID: Sample Date:					AMW-22	AMW-22B	AMW-23	AMW-23B	AMW-24	AMW-25	AMW-26
		Class 2B Waters			AMW-22(20171213)	AMW-22B(20171213)	AMW-23(20171214)	AMW-23B(20171214)	AMW-24(20171214)	AMW-25(20171214)	AMW-26(20171215)
		CS	MS	FAV	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/15/2017
2,4-Dimethylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 J	< 1.9	< 1.9	< 1.9
2,4-Dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
2,4-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,6-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2-Chloronaphthalene	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
2-Chlorophenol	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95 J	< 0.96	< 0.96	< 0.96
2-Methyl-4,6-dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
2-Methylnaphthalene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.24
2-Methylphenol	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95 J	< 0.96	< 0.96	< 0.96
2-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2-Nitrophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 J	< 1.9	< 1.9	< 1.9
3,3-Dichlorobenzidine	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
3-Methylphenol, 4-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 J	< 1.9	< 1.9	< 1.9
3-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Bromophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Chloro-3-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 J	< 1.9	< 1.9	< 1.9
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
Acenaphthene	ug/l	20	56	112	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.16 J
Acenaphthylene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Acetophenone	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Anthracene	ug/l	0.035	0.32	0.63	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Atrazine	ug/l	10	323	645	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Benzaldehyde	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	3.9	< 1.9
Benzo(a)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(b)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(g,h,i)perylene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(k)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
bis(2-Chloroethyl)ether	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
bis(2-Ethylhexyl)phthalate	ug/l	2.1	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Butyl benzyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Caprolactam	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
Carbazole	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Chrysene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzo(a,h)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzofuran	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Diethyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 UB	< 1.9	< 1.9	< 1.9

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:		Class 2B Waters			AMW-22	AMW-22B	AMW-23	AMW-23B	AMW-24	AMW-25	AMW-26
					AMW-22(20171213)	AMW-22B(20171213)	AMW-23(20171214)	AMW-23B(20171214)	AMW-24(20171214)	AMW-25(20171214)	AMW-26(20171215)
		CS	MS	FAV	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/15/2017
Dimethyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Di-n-butyl phthalate	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Di-n-octyl phthalate	ug/l	30	825	1,650	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Fluoranthene	ug/l	1.9	3.5	6.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Fluorene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.26
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Hexachlorobenzene	ug/l	0.00024	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Hexachlorocyclopentadiene	ug/l	NS	NS	NS	< 9.5	< 9.5	< 9.5	< 9.5	< 9.6	< 9.6	< 9.6
Hexachloroethane	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Indeno(1,2,3-cd)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Isophorone	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
Naphthalene	ug/l	81	409	818	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.55
Nitrobenzene	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
N-Nitrosodi-n-propylamine	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
N-Nitrosodiphenylamine	ug/l	NS	NS	NS	< 0.95	< 0.95	< 0.95	< 0.95	< 0.96	< 0.96	< 0.96
p-Chloroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Pentachlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8 J	< 4.8	< 4.8	< 4.8
Phenanthrene	ug/l	3.6	32	64	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Phenol	ug/l	123	2,214	4,428	< 0.95	< 0.95	< 0.95	< 0.95 J	< 0.96	< 0.96	< 0.96
Pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene (BaP) Equivalents	ug/l	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
Dissolved Metals											
Aluminum	ug/l	125	1,072	2,145	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Antimony	ug/l	31	90	180	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Arsenic	ug/l	53	360	720	9.7 J	3.8 J	< 10	5.6 J	< 10	< 10	9.6 J
Barium	ug/l	NS	NS	NS	150 J	170 J	180 J	210	92 J	170 J	240
Beryllium	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	ug/l	2.0	65	130	0.33 J	< 5.0	< 5.0	< 5.0	0.23 J	0.30 J	< 5.0
Calcium	ug/l	NS	NS	NS	120,000	76,000	150,000	83,000	170,000	180,000	150,000
Chromium	ug/l	11	16	32	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cobalt	ug/l	5.0	436	872	< 7.0	< 7.0	1.9 J	< 7.0	1.4 J	< 7.0	< 7.0
Copper	ug/l	14	31	62	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Iron	ug/l	NS	NS	NS	6,900	2,700	690	3,500	1,000	1,400	14,000
Lead	ug/l	7.0	173	346	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Magnesium	ug/l	NS	NS	NS	34,000	27,000	40,000	28,000	44,000	57,000	44,000
Manganese	ug/l	NS	NS	NS	1,800	170	2,500	230	1,600	980	2,200
Mercury	ug/l	0.0069	2.4	4.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	ug/l	259	2,332	4,664	< 40	< 40	2.5 J	< 40	5.0 J	< 40	< 40
Potassium	ug/l	NS	NS	NS	3,800 J B	3,000 J B	3,700 J	2,100 J	7,900	3,800 J	5,500
Silver	ug/l	1.0	6.0	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-22	AMW-22B	AMW-23	AMW-23B	AMW-24	AMW-25	AMW-26
					AMW-22(20171213)	AMW-22B(20171213)	AMW-23(20171214)	AMW-23B(20171214)	AMW-24(20171214)	AMW-25(20171214)	AMW-26(20171215)
		CS	MS	FAV	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/15/2017
Sodium	ug/l	NS	NS	NS	24,000 B	6,100 B	52,000	10,000	80,000	86,000	55,000
Vanadium	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Zinc	ug/l	174	193	385	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Selenium	ug/l	5.0	20	40	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Thallium	ug/l	0.56	64	128	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH											
Diesel Range Organics	ug/l	NS	NS	NS	51 J B	87 J B	67 J B	50 J F1 B	68 J B	16,000 B	110
Gasoline Range Organics	ug/l	NS	NS	NS	< 100	< 100	< 100	< 100	< 100	8,500	< 100
PCBs											
Aroclor 1016	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1221	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1232	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1242	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1248	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1254	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Aroclor 1260	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Other											
Cyanide	ug/l	5.2	22	45	< 10 UB	< 10 UB	2.2 J	2.1 J	3.0 J	11 J	< 10 UB

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Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID:	Units	Class 2B Waters			AMW-27	AMW-28	AMW-29	AMW-30	AMW-31
Sample ID:					AMW-27(20171218)	AMW-28(20171218)	AMW-29(20171218)	AMW-30(20171220)	AMW-31(20171220)
Sample Date:		CS	MS	FAV	12/18/2017	12/18/2017	12/18/2017	12/20/2017	12/20/2017
VOCs									
1,1,1,2-Tetrachloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	ug/l	329	2,957	5,913	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	ug/l	13	1,127	2,253	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	ug/l	190	45,050	90,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	NS	NS	NS	< 10	< 10	1.8 J	3.7 J	2.0 J
Allyl chloride	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	ug/l	114	4,487	8,974	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	ug/l	466	2,900	5,800	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
Bromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Tetrachloride	ug/l	5.9	1,750	3,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	ug/l	20	423	846	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 2
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Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-27	AMW-28	AMW-29	AMW-30	AMW-31
					AMW-27(20171218)	AMW-28(20171218)	AMW-29(20171218)	AMW-30(20171220)	AMW-31(20171220)
		CS	MS	FAV	12/18/2017	12/18/2017	12/18/2017	12/20/2017	12/20/2017
Chlorodibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	ug/l	155	1,392	2,784	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	ug/l	NS	NS	NS	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cymene (p-Isopropyltoluene)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	ug/l	1,940	13,875	27,749	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromonofluoromethane	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Diethyl ether	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	ug/l	68	1,859	3,717	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylenes	ug/l	NS	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Acetate	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	81	409	818	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	ug/l	8.9	428	857	< 1.0	< 1.0	< 1.0	0.72 J	< 1.0
Tetrahydrofuran	ug/l	NS	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	ug/l	253	1,352	2,703	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	ug/l	NS	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	ug/l	NS	NS	NS	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0
Trichloroethene	ug/l	120	6,988	13,976	< 1.0	< 1.0	16	34	< 1.0
Vinyl chloride	ug/l	9.2	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SVOCs									
1,1-Biphenyl	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
2,2-Oxybis(1-Chloropropane)	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
2,4,5-Trichlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4,6-Trichlorophenol	ug/l	2.0	102	203	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4-Dichlorophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9

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Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-27	AMW-28	AMW-29	AMW-30	AMW-31
					AMW-27(20171218)	AMW-28(20171218)	AMW-29(20171218)	AMW-30(20171220)	AMW-31(20171220)
		CS	MS	FAV	12/18/2017	12/18/2017	12/18/2017	12/20/2017	12/20/2017
2,4-Dimethylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2,4-Dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,4-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2,6-Dinitrotoluene	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2-Chloronaphthalene	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
2-Chlorophenol	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
2-Methyl-4,6-dinitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
2-Methylnaphthalene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
2-Methylphenol	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
2-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
2-Nitrophenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
3,3-Dichlorobenzidine	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
3-Methylphenol, 4-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
3-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Bromophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Chloro-3-Methylphenol	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
4-Nitrophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Acenaphthene	ug/l	20	56	112	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Acenaphthylene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Acetophenone	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Anthracene	ug/l	0.035	0.32	0.63	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Atrazine	ug/l	10	323	645	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Benzaldehyde	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Benzo(a)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(b)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(g,h,i)perylene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(k)fluoranthene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
bis(2-Chloroethyl)ether	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
bis(2-Ethylhexyl)phthalate	ug/l	2.1	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Butyl benzyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Caprolactam	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	1.5 J	2.3 J
Carbazole	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Chrysene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzo(a,h)anthracene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzofuran	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Diethyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9 UB	< 1.9 UB

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St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-27	AMW-28	AMW-29	AMW-30	AMW-31
					AMW-27(20171218)	AMW-28(20171218)	AMW-29(20171218)	AMW-30(20171220)	AMW-31(20171220)
		CS	MS	FAV	12/18/2017	12/18/2017	12/18/2017	12/20/2017	12/20/2017
Dimethyl phthalate	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Di-n-butyl phthalate	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Di-n-octyl phthalate	ug/l	30	825	1,650	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Fluoranthene	ug/l	1.9	3.5	6.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Fluorene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Hexachloro-1,3-butadiene	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Hexachlorobenzene	ug/l	0.00024	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Hexachlorocyclopentadiene	ug/l	NS	NS	NS	< 9.6	< 9.5	< 9.5	< 9.6	< 9.6
Hexachloroethane	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Indeno(1,2,3-cd)pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Isophorone	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Naphthalene	ug/l	81	409	818	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Nitrobenzene	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
N-Nitrosodi-n-propylamine	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
N-Nitrosodiphenylamine	ug/l	NS	NS	NS	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
p-Chloroaniline	ug/l	NS	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Pentachlorophenol	ug/l	NS	NS	NS	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
Phenanthrene	ug/l	3.6	32	64	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Phenol	ug/l	123	2,214	4,428	< 0.96	< 0.95	< 0.95	< 0.96	< 0.96
Pyrene	ug/l	NS	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene (BaP) Equivalents	ug/l	NS	NS	NS	ND	ND	ND	ND	ND
Dissolved Metals									
Aluminum	ug/l	125	1,072	2,145	< 200	< 200	39,000	33,000	< 200
Antimony	ug/l	31	90	180	< 10	< 10	< 10	< 10	< 10
Arsenic	ug/l	53	360	720	< 10	< 10	< 10	< 10	< 10
Barium	ug/l	NS	NS	NS	48 J	41 J	18 J	14 J	81 J
Beryllium	ug/l	NS	NS	NS	< 5.0	< 5.0	3.0 J	3.5 J	< 5.0
Cadmium	ug/l	2.0	65	130	< 5.0	< 5.0	0.77 J	0.44 J	0.23 J
Calcium	ug/l	NS	NS	NS	53,000	54,000	48,000	67,000	87,000
Chromium	ug/l	11	16	32	0.69 J	< 10	4.0 J	6.5 J	< 10
Cobalt	ug/l	5.0	436	872	< 7.0	< 7.0	90	40	< 7.0
Copper	ug/l	14	31	62	< 25	< 25	90	180	< 25
Iron	ug/l	NS	NS	NS	1,500	4,700	1,000	5,300	1,100
Lead	ug/l	7.0	173	346	< 3.0	< 3.0	4.9	< 3.0	< 3.0
Magnesium	ug/l	NS	NS	NS	19,000	20,000	24,000	30,000	25,000
Manganese	ug/l	NS	NS	NS	150	240	900	640	790
Mercury	ug/l	0.0069	2.4	4.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel	ug/l	259	2,332	4,664	2.3 J	6.0 J	390	220	2.4 J
Potassium	ug/l	NS	NS	NS	3,200 J	2,900 J	4,800 J	13,000	6,300
Silver	ug/l	1.0	6.0	11	< 10	< 10	< 10	< 10	< 10

See Notes on Last Page.

Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Location ID: Sample ID: Sample Date:	Units	Class 2B Waters			AMW-27	AMW-28	AMW-29	AMW-30	AMW-31
					AMW-27(20171218)	AMW-28(20171218)	AMW-29(20171218)	AMW-30(20171220)	AMW-31(20171220)
		CS	MS	FAV	12/18/2017	12/18/2017	12/18/2017	12/20/2017	12/20/2017
Sodium	ug/l	NS	NS	NS	38,000	9,900	8,200	19,000	160,000
Vanadium	ug/l	NS	NS	NS	< 10	< 10	< 10	< 10	8.8 J
Zinc	ug/l	174	193	385	< 50	< 50	140	92	< 50
Selenium	ug/l	5.0	20	40	< 5.0	< 5.0	1.7 J	4.1 J	< 5.0
Thallium	ug/l	0.56	64	128	< 1.0	< 1.0	1.8	5.8	< 1.0
TPH									
Diesel Range Organics	ug/l	NS	NS	NS	< 96 UB	170 J	< 95 UB	230	2,200
Gasoline Range Organics	ug/l	NS	NS	NS	< 100	< 100	< 100	< 100	< 100
PCBs									
Aroclor 1016	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1221	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1232	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1242	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1248	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1254	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Aroclor 1260	ug/l	0.000029	1.0	2.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9
Other									
Cyanide	ug/l	5.2	22	45	< 10	< 10	< 10	< 10	< 10

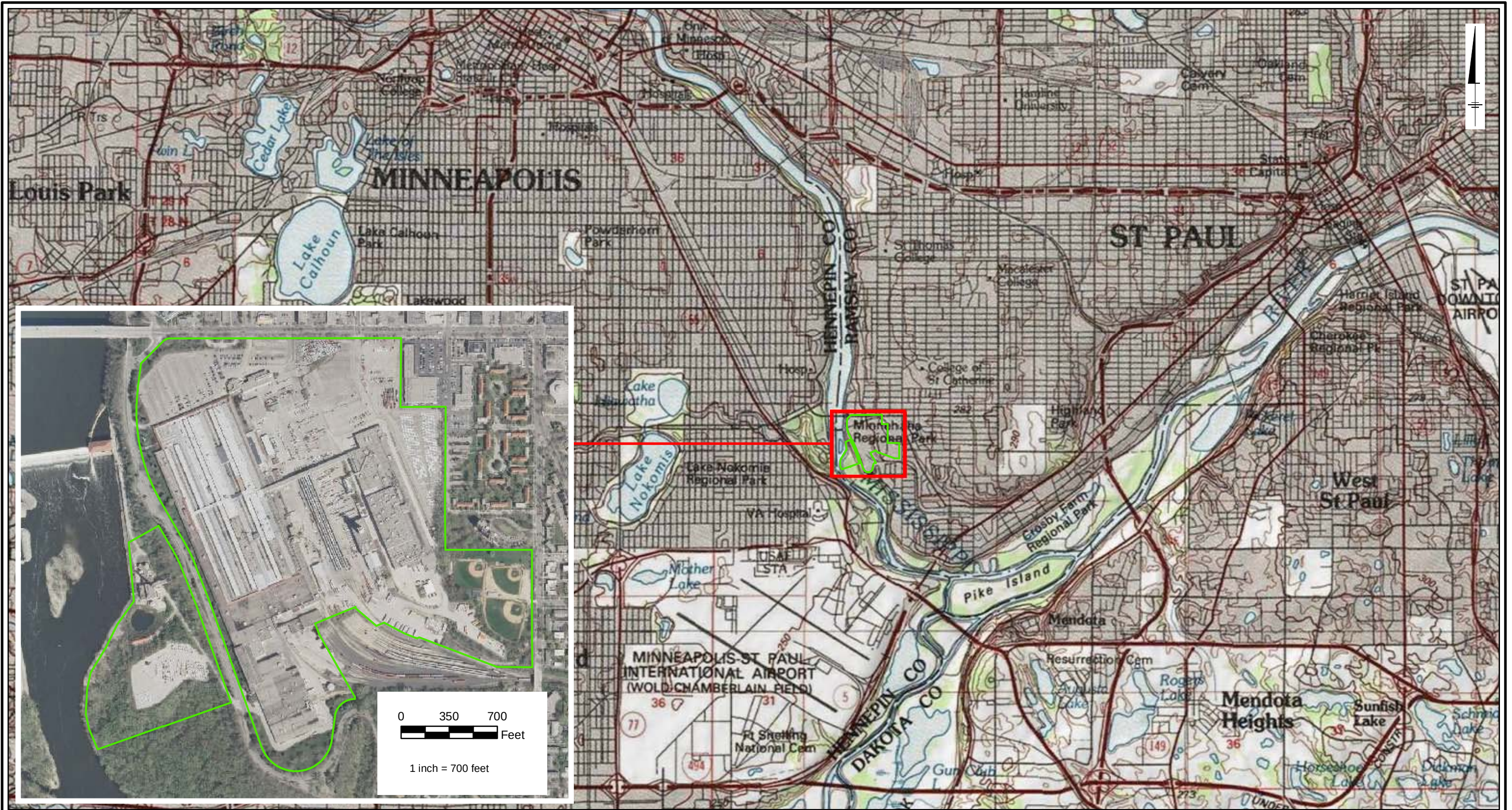
See Notes on Last Page.

Table 2
December 2017 Groundwater Analytical Results
Ford Motor Company - Twin Cities Assembly Plant
966 South Mississippi River Boulevard
St. Paul, Minnesota

Notes:
Results are reported in micrograms per liter (µg/L).
Shaded Above MPCA Class 2B Surface Water Criteria
Bolding Deteced above reporting detection limit

Acronyms and Abbreviations:

*	LCS or LCSD is outside acceptance limits.
^	ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits
<	Not deteced above reporting detection limit
AMW	Arcadis Monitoring Well
B	Compound was found in the blank and sample
CS	Chronic Standard
F1	MS and/or MSD Recovery is outside acceptance limits
FAV	Final Acute Value
J	Estimated result
MPCA	Minnesota Pollution Control Agency
MS	Maximum Standard
NA	Not analyzed
ND	Not detected
NS	No standard
PCBs	polychlorinated biphenyl
SVOCs	semi-volatile organic compounds
TPH	Total petroleum hydrocarbons
UB	Determined non-detect at the reporting limit by Cadena validation.
VOCs	Volatile organic compounds



LEGEND:

— Ford Property Boundary

NOTES:

Imagery Source: MnGeo WMS service, 2010 color 7-county
<http://geoint.lmic.state.mn.us/cgi-bin/wms/> Accessed 4/26/2016

Topographic Map Source:
© 2007 National Geographic Society

0 1 2
Miles
1 inch = 1 mile



Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Site Location / Property Layout



FIGURE
1

CITY: Minneapolis, MN DB: McGress PM: Bryan Zinda
Project: MN000593
Path: Z:\GIS\Projects\ENVI\FordRanger\ArcMap2018\04\Site_Pot_Map_20180404.mxd



LEGEND:

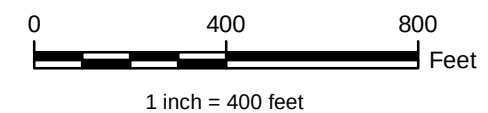
- | | |
|--|---|
| Monitoring Wells | Former Buildings |
| Unconsolidated Soils Monitoring Well | Ford Property Boundary |
| Platteville Monitoring Well | Groundwater Elevation (Dashed Where Inferred) |
| St. Peter Monitoring Well | Groundwater Elevations (701.33) (Feet above Mean Sea Level) |
| Abandoned Unconsolidated Soils Monitoring Well | |

NOTES:

Groundwater elevations collected on December 11, 2017

Only the St. Peter Monitoring wells within the Main parcel were used to create contours.

Imagery Source: MnGeo WMS service, 2016 color 7-county
<http://geooint.lmic.state.mn.us/cgi-bin/wms?>



Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

**Main Parcel Potentiometric
Surface Map – December 2017**



FIGURE
2

CITY: Minneapolis, MN DB: McGress PM: Bryan Zinda
Project: MN000593
Path: Z:\GIS\Projects\ENVI\FordRanger\ArcMap\2018-04\Area C_Pot_Map_20180403.mxd



LEGEND:

- | | |
|--------------------------------------|--|
| Monitoring Wells | Former Buildings |
| Unconsolidated Soils Monitoring Well | Ford Property Boundary |
| St. Peter Monitoring Well | Groundwater Elevation (Dashed Where Inferred) |
| | Groundwater Flow Direction |
| | Groundwater Elevations (688.71)
(Feet above Mean Sea Level) |

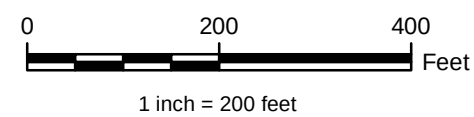
NOTES:

Groundwater elevations collected on December 11, 2017

Only the unconsolidated soils monitoring wells were used to create contours.

*AMW-20 not used to create contours.

Imagery Source: MnGeo WMS service, 2016 color 7-county
<http://geoint.lmic.state.mn.us/cgi-bin/wms?>



Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

**Area C Potentiometric
Surface Map – December 2017**



CITY: Minneapolis, MN DB: McGress PM: Bryan Zinda
Project: MN000593
Path: Z:\GIS\Projects\ENVI\FordRanger\Map2018\18-04\Site_GW_Exceed 20180404.mxd



Constituent	Class 2B Waters		
	CS	MS	FAV
VOCs			
Ethylbenzene	68	1,859	3,717
Total Metals			
Aluminum	125	1,072	2,145
Cobalt	5.0	436	872
Copper	14	31	62
Nickel	259	2,332	4,664
Thallium	0.56	64	128
Other			
Cyanide	5.2	22	45
Bolding Value is above the MPCA Class 2B Surface Water Criteria			

AMW-30	
	12/20/2017
Total Metals	
Aluminum	33,000
Cobalt	40
Copper	180
Thallium	5.8

AMW-05B	
	12/15/2017
Total Metals	
Cobalt	8.7

AMW-07	
	12/15/2017
Total Metals	
Aluminum	11,000
Cobalt	25
Thallium	2.9

AMW-29	
	12/18/2017
Total Metals	
Aluminum	39,000
Cobalt	90
Copper	90
Nickel	390
Thallium	1.8

AMW-25	
	12/14/2017
VOCs	
Ethylbenzene	79
Other	
Cyanide	11 J

LEGEND:

- Monitoring Wells
- Unconsolidated Soils Monitoring Well

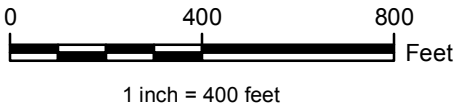
Platteville Monitoring Well

St. Peter Monitoring Well

Abandoned Unconsolidated Soils Monitoring Well
- Former Buildings
- Ford Property Boundary

NOTES: Analytical results are compared to Class 2B Surface Water Values only as the Mississippi River is the only relevant receptor.

*AMW-17 not sampled during the December 2017 event
Results reported in micrograms per liter (µg/L)
Results displayed for exceedances only
AMW = Arcadis Monitoring Well
CS = Chronic Standard
FAV = Final Acute Value
J = estimated result
MPCA = Minnesota Pollution Control Agency
MS = Maximum Standard
VOCs = volatile organic compounds



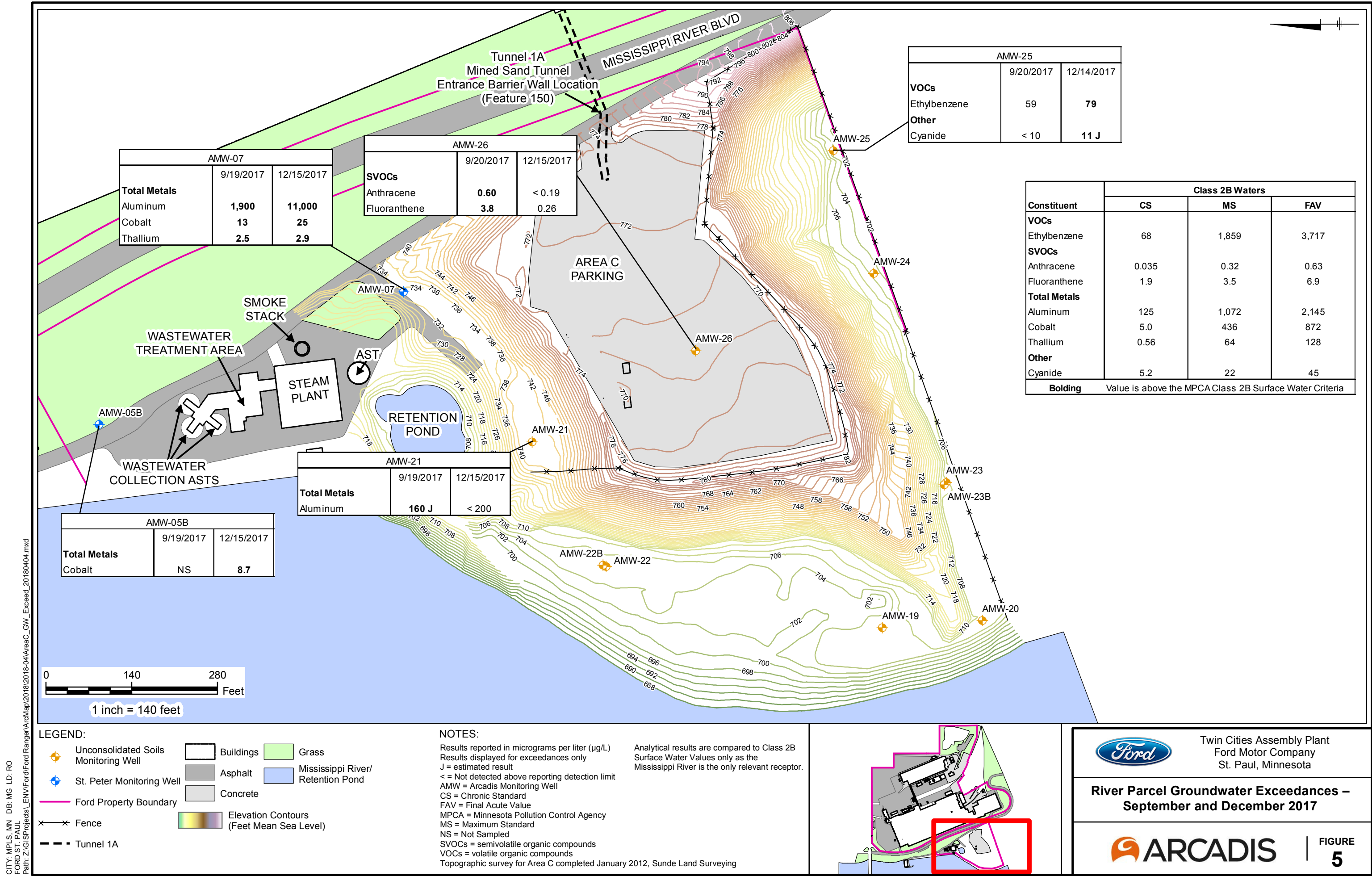
Imagery Source: MnGeo WMS service, 2016 color 7-county
<http://geoint.lmic.state.mn.us/cgi-bin/wms?>



Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Site Wide Groundwater Exceedances -
December 2017





ARCADIS
Water-Level Measurement Form

 Project No.: MN000631.0001.00002
 Site Location: Ford TCAP
 Instrument Model: _____

 Field Personnel: Adam Thompson
 Date: 12/11/17
 Instrument Serial No.: _____

Well Number	Time	W.L. Measurements			Comments	
		DTP (feet)	DTW (feet)	TD (feet)	Well Locked	Other Comments
AMW-01	1620		26.18	41.77	Y	
AMW-02	1527		27.22	43.73	Y	
AMW-03B	1355		99.30	151.75	N	
AMW-03A	1350		17.92	39.48	N	
AMW-04	1402		36.15	60.85	Y	
AMW-05	1120		Dry	31.12	Y	
AMW-05B	1115		31.03	54.96	Y	
AMW-06	1600		25.07	43.68	Y	
AMW-07	1103		41.54	44.91	Y	
AMW-08	1452		38.01	44.55	Y	
AMW-09	1504		79.66	89.36	N	
AMW-10	1518		18.87	42.16	Y	
AMW-19	1149		19.39	26.61	Y	
AMW-20	1158		21.31	25.85	Y	
AMW-21	1110		50.43	58.32	Y	
AMW-22	1135		18.65	28.32	Y	
AMW-22B	1140		18.59	44.70	Y	
AMW-23	1208		22.15	28.95	Y	
AMW-23B	1205		22.63	48.65	X	
AMW-24	1210		18.51	24.98	X	
AMW-25	1215		16.45	23.62	Y	
AMW-26	1035		80.12	86.61	Y	
AMW-27	1330		98.20	107.52	Y	
AMW-28	1437		102.04	117.06	Y	
AMW-29	1414		113.83	123.7	Y	
AMW-30	1420		112.44	122.4	Y	
AMW-31	1428		104.25	120.15	Y	

 St. Peter Sandstone Wells
 Platteville Limestone Wells
 Overburden (Area C Floodplain) Wells
 Water Level
 Total Depth
 Depth To Water
 Depth To Product

 W.L.
 TD
 DTW
 DTP

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12-20-17
 Site/Well No. AMW-01 Replicate No. _____ Code No. _____
 Weather overcast/15°F Sampling Time: Begin 1630 End 1645

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 26.18 41.77
 Depth to Water (ft bmp) 26.18
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 15.59
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.49
 Gallons Pumped/Bailed Prior to Sampling 5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1608 end 1630
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump Bailer

Field Parameters

Temperature (°C) 7.02
 SpC (mS/cm) 0.591
 CND (mS/cm) 0.408
 Dissolved Oxygen (%) 87.0
 Dissolved Oxygen (mg/L) 9.90
 pH (s.u.) 7.37
 ORP (mV) 107.2
 Turbidity (NTU) OVER RANGE
 Color Brown
 Odor —
 Appearance Turbid
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson / Brigitte Brown

Well Casing Volumes					
Gal./Ft.		0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37
		1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

PAGE 2 OF 2

PROJ #: MN000631.0001.00002

LOC: Ford TCAP, St. Paul, MN

ENFM005-YSIlog.xls

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/19/17
 Site/Well No. AMW-02 Replicate No. _____ Code No. _____
 Weather 30s / ~~Overcast~~ Sunny Sampling Time: Begin 1640 End _____

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) ~~26.61~~ 43.73
 Depth to Water (ft bmp) ~~19.39~~ 27.22
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) ~~22~~ 16.51
 Casing Diameter/Type 2" PVC
 Gallons in Well ~~11.6~~ 2.64
 Gallons Pumped/Bailed Prior to Sampling 2.5
 Sample Pump Intake Setting (ft bmp) 42
 Purge Time begin 1430 end 1640
 Pumping Rate (ml/min) 60
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) _____
 SpC (mS/cm) _____
 CND (mS/cm) _____
 Dissolved Oxygen (%) _____
 Dissolved Oxygen (mg/L) _____
 pH (s.u.) _____
 ORP (mV) _____
 Turbidity (NTU) _____
 Color _____
 Odor _____
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCS	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Brigitte Brown

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: AMW-02

PROJ #: MN000631.0001.00002

DATE: 12/19/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/12/17
 Site/Well No. AMW-3A Replicate No. _____ Code No. _____
 Weather overcast 17°F Sampling Time: Begin 1400 End 1430

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 39.48
 Depth to Water (ft bmp) 17.92
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 21.56
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.45
 Gallons Pumped/Bailed Prior to Sampling 4
 Sample Pump Intake Setting (ft bmp) 35
 Purge Time begin 1300 end 1400
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.52
 SpC (mS/cm) 0.800
 CND (mS/cm) —
 Dissolved Oxygen (%) 15.8
 Dissolved Oxygen (mg/L) 1.77
 pH (s.u.) 7.61
 ORP (mV) -154.2
 Turbidity (NTU) 6.68
 Color —
 Odor solvent-like
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL : AMW - 34

PROJ #: MN000631.0001.00002

DATE: 12/12/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/12/17
 Site/Well No. AMW - 3B Replicate No. _____ Code No. _____
 Weather Sunny 11°F Sampling Time: Begin 1110 End 1120

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 151.75
 Depth to Water (ft bmp) 99.30
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 52.45
 Casing Diameter/Type 2" PVC
 Gallons in Well 8.3
 Gallons Pumped/Bailed Prior to Sampling 25
 Sample Pump Intake Setting (ft bmp) 149
 Purge Time begin 1025 end 1110
 Pumping Rate (ml/min) 0.5 gal/min
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) ~~10.64~~ 10.70
 SpC (mS/cm) ~~0.468~~ 0.449
 CND (mS/cm) _____
 Dissolved Oxygen (%) 12.8
 Dissolved Oxygen (mg/L) 1.41
 pH (s.u.) 7.39
 ORP (mV) ~~138.2~~
 Turbidity (NTU) 0.91
 Color clear
 Odor solvent-like
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>SVOCs</u>	<u>1-L Amber</u>	<u>2</u>	<u>none</u>
<u>Dissolved TAL Metals</u>	<u>500 mL Plastic</u>	<u>1</u>	<u>HNO3</u>
<u>PCBs</u>	<u>1-L Amber</u>	<u>2</u>	<u>none</u>
<u>Cyanide</u>	<u>250 mL Plastic</u>	<u>1</u>	<u>NaOH</u>
<u>GRO / DRO</u>	<u>40mL voa / 1-L Amber</u>	<u>3 / 2</u>	<u>HCL</u>

Sampling Personnel

Adam Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL : AMW-3B

PROJ #: MN000631.0001.00002

DATE: 12/12/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/18/17
 Site/Well No. AMW-04 Replicate No. _____ Code No. _____
 Weather overcast/26°F Sampling Time: Begin 0920 End 0930

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 60.85
 Depth to Water (ft bmp) 36.15
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 24.70
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.95
 Gallons Pumped/Bailed Prior to Sampling 10
 Sample Pump Intake Setting (ft bmp) 55
 Purge Time begin 0835 end 0920
 Pumping Rate (ml/min) 800
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.16
 SpC (mS/cm) 1.239
 CND (mS/cm) 0.911
 Dissolved Oxygen (%) 8.4
 Dissolved Oxygen (mg/L) 0.92
 pH (s.u.) 7.32
 ORP (mV) -43.1
 Turbidity (NTU) 9.20
 Color none
 Odor none
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: Amw-04

PROJ #: MN000631.0001.00002

DATE: 12/18/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/15/17
 Site/Well No. AMW-5B Replicate No. _____ Code No. _____
 Weather 25°F, Cloudy Sampling Time: Begin 1315 End 1325

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 54.96
 Depth to Water (ft bmp) 31.0
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 54.
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.8 Gallons
 Gallons Pumped/Bailed Prior to Sampling 22.5 Gallons
 Sample Pump Intake Setting (ft bmp) 50
 Purge Time begin 1245 end 1315
 Pumping Rate (ml/min) 2000
 Evacuation Method Peristaltic Pump GeoSub

Field Parameters

Temperature (°C) 12.92
 SpC (mS/cm) 1.474
 CND (mS/cm) 1.136
 Dissolved Oxygen (%) 5.2
 Dissolved Oxygen (mg/L) 0.54
 pH (s.u.) 6.55
 ORP (mV) 106.4
 Turbidity (NTU) 10.9
 Color None
 Odor None
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: Amw-5B

PROJ #: MN000631.0001.00002

DATE: 12/15/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/19/17
 Site/Well No. AMW-06 Replicate No. _____ Code No. _____
 Weather Sunny/30s Sampling Time: Begin 1240 End 1350

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 43.68
 Depth to Water (ft bmp) 25.07
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 18.61
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.98
 Gallons Pumped/Bailed Prior to Sampling 3
 Sample Pump Intake Setting (ft bmp) 42
 Purge Time begin 1105 end 1240
 Pumping Rate (ml/min) 80
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.79
 SpC (mS/cm) 0.969
 CND (mS/cm) 0.687
 Dissolved Oxygen (%) 7.3
 Dissolved Oxygen (mg/L) 0.82
 pH (s.u.) 4.01
 ORP (mV) 179.5
 Turbidity (NTU) 15.6
 Color —
 Odor —
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson/Brigitte Brown

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL :

AMW-06

PROJ #: MN000631.0001.00002

DATE :

12/19/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/15/17
 Site/Well No. AMW-07 Replicate No. _____ Code No. _____
 Weather overcast/20s Sampling Time: Begin 1135 End 1200

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 44.97
 Depth to Water (ft bmp) 41.54
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 3.43
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.55
 Gallons Pumped/Bailed Prior to Sampling 10
 Sample Pump Intake Setting (ft bmp) 44
 Purge Time begin 1105 end 1135
 Pumping Rate (ml/min) 1000
 Evacuation Method Peristaltic Pump Geosub

Field Parameters

Temperature (°C) 13.24
 SpC (mS/cm) 1.359
 CND (mS/cm) 1.053
 Dissolved Oxygen (%) 93.3
 Dissolved Oxygen (mg/L) 9.74
 pH (s.u.) 4.64
 ORP (mV) 211.8
 Turbidity (NTU) 4.66
 Color clear
 Odor None
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: AMW-07

PROJ #: MN000631.0001.00002

DATE: 12/15/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/20 - 12/21/2017
 Site/Well No. AMW - 08 Replicate No. Code No.
 Weather overcast / 21°F Sampling Time: Begin 0830 End 0845 (12/21/17)

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 44.55
 Depth to Water (ft bmp) 38.01
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 6.54
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.05
 Gallons Pumped/Bailed Prior to Sampling 3
 Sample Pump Intake Setting (ft bmp) 42
 Purge Time begin 1450 end 1640
 Pumping Rate (ml/min) 50
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 50.99
 SpC (mS/cm) 0.731
 CND (mS/cm) 0.460
 Dissolved Oxygen (%) 100.4
 Dissolved Oxygen (mg/L) 12.44
 pH (s.u.) 8.52
 ORP (mV) 158.5
 Turbidity (NTU) OVER RANGE
 Color Brown
 Odor -
 Appearance Turbid
 Sampling Method Low Flow

Remarks Purged dry on 12/20
sampled on 12/21

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson / Brigitte Brown

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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PROJ #: MN000631.0001.00002

LOC: Ford TCAP, St. Paul, MN

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/20/17
 Site/Well No. AMW-09 Replicate No. _____ Code No. _____
 Weather overcast/20°F Sampling Time: Begin 1410 End 1450 (12/21/17)

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 89.36
 Depth to Water (ft bmp) 79.66
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.70
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.55
 Gallons Pumped/Bailed Prior to Sampling 1.5
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1410 end 1415
 Pumping Rate (ml/min) (12/20/17) → Purged Dry
 Evacuation Method Peristaltic Pump Barker

Field Parameters

Temperature (°C) 9.76
 SpC (mS/cm) 1,883
 CND (mS/cm) 1.335
 Dissolved Oxygen (%) —
 Dissolved Oxygen (mg/L) —
 pH (s.u.) 8.32
 ORP (mV) 118.8
 Turbidity (NTU) OVER RANGE
 Color Gray
 Odor —
 Appearance Turbid
 Sampling Method Low Flow

Remarks Purged Dry on 12/20
Sampled on 12/21

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/12/17
 Site/Well No. AMW-10 Replicate No. _____ Code No. _____
 Weather overcast / 21°F Sampling Time: Begin 1540 End 1710

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 42.16
 Depth to Water (ft bmp) 18.87
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 23.29
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.73
 Gallons Pumped/Bailed Prior to Sampling 3
 Sample Pump Intake Setting (ft bmp) 30
 Purge Time begin 1500 end 1540
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.35
 SpC (mS/cm) 0.924
 CND (mS/cm) -
 Dissolved Oxygen (%) 78.4
 Dissolved Oxygen (mg/L) 8.75
 pH (s.u.) 7.44
 ORP (mV) -132.7
 Turbidity (NTU) 5.97
 Color -
 Odor solvent-like
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: Amw-10

PROJ #: MN000631.0001.00002

DATE : 12/12/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/13/17
 Site/Well No. AMW-19 Replicate No. _____ Code No. _____
 Weather 23° F, Snow Sampling Time: Begin 1650 End 1745

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) _____
 Depth to Water (ft bmp) 11.39
 Water-Level Elevation (ft) NA 26.61
 Water Column in Well (ft) 7.221
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.5 5.1
 Gallons Pumped/Bailed Prior to Sampling 3.5
 Sample Pump Intake Setting (ft bmp) 24'
 Purge Time begin 1620 end 1650
 Pumping Rate (ml/min) 300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.21
 SpC (mS/cm) 1.371
 CND (mS/cm) 0.983
 Dissolved Oxygen (%) 28.6
 Dissolved Oxygen (mg/L) 3.22
 pH (s.u.) 7.15
 ORP (mV) 168.4
 Turbidity (NTU) 1.99
 Color clear
 Odor None
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel J. Hinkle A. Thompson

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: AMU-19

PROJ #: MN000631.0001.00002

DATE: 12/13/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/14/17
 Site/Well No. Amw 30 Replicate No. _____ Code No. _____
 Weather 20°F / Overcast Sampling Time: Begin 957 End 1110

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 25.85
 Depth to Water (ft bmp) 21.31
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 4.54
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.73
 Gallons Pumped/Bailed Prior to Sampling 2.7 Gal
 Sample Pump Intake Setting (ft bmp) 24
 Purge Time begin 930 end 957
 Pumping Rate (ml/min) 300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.74
 SpC (mS/cm) 1.713
 CND (mS/cm) 1.211
 Dissolved Oxygen (%) 25.0
 Dissolved Oxygen (mg/L) 2.91
 pH (s.u.) 6.82
 ORP (mV) -170.1
 Turbidity (NTU) 1.50
 Color Clear
 Odor None
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL : AMW-20

PROJ #: MN000631.0001.00002

DATE: 12/14/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date _____
 Site/Well No. overcast/203 Replicate No. _____ Code No. _____
 Weather AMW-21 Sampling Time: Begin 955 End 1005

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 58.32
 Depth to Water (ft bmp) 50.43
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 7.89
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.26
 Gallons Pumped/Bailed Prior to Sampling 10
 Sample Pump Intake Setting (ft bmp) 55
 Purge Time begin 936 end 954
 Pumping Rate (ml/min) 2000
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.86
 SpC (mS/cm) 1.359
 CND (mS/cm) 1.044
 Dissolved Oxygen (%) 7.4
 Dissolved Oxygen (mg/L) 0.78
 pH (s.u.) 6.87
 ORP (mV) 72.9
 Turbidity (NTU) 16.5
 Color None
 Odor None
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

PAGE 2 OF 2

WELL: AMW-21

PROJ #: MN000631.0001.00002

DATE: 12/15/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/13/17
 Site/Well No. AMW-22 Replicate No. _____ Code No. _____
 Weather overcast/24°F Sampling Time: Begin 10:04 End 10:30

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 28.32
 Depth to Water (ft bmp) 18.65
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.67
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.55
 Gallons Pumped/Bailed Prior to Sampling 5
 Sample Pump Intake Setting (ft bmp) 25
 Purge Time begin 0922 end 10:04
 Pumping Rate (ml/min) 300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.95
 SpC (mS/cm) 1.213
 CND (mS/cm) 0.858
 Dissolved Oxygen (%) 20.9
 Dissolved Oxygen (mg/L) 2.58
 pH (s.u.) 7.05
 ORP (mV) -59.3
 Turbidity (NTU) 81.3
 Color clear
 Odor None
 Appearance _____
 Sampling Method Low Flow - Peri
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel J Hamling and A. Thompson

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: 11W-22

PROJ #: MN000631.0001.00002

DATE: 12/13/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/13/17
 Site/Well No. AMW-22B Replicate No. _____ Code No. _____
 Weather 25° F Sampling Time: Begin 1145 End 1215

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 4470
 Depth to Water (ft bmp) 18.59
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well 4.2
 Gallons Pumped/Bailed Prior to Sampling 4
 Sample Pump Intake Setting (ft bmp) 46'
 Purge Time begin 1107 end 1137
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.55
 SpC (mS/cm) 0.752
 CND (mS/cm) 0.528
 Dissolved Oxygen (%) _____
 Dissolved Oxygen (mg/L) _____
 pH (s.u.) 7.89
 ORP (mV) +117.9
 Turbidity (NTU) 3.99
 Color clear
 Odor None
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel J. Hamlin & A. Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

WELL: AMW-22B

PAGE 2 OF 2

PROJ #: MN000631.0001.00002

DATE: 12/13/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date _____
 Site/Well No. AMW-23 Replicate No. _____ Code No. _____
 Weather 20° F, Partly cloudy Sampling Time: Begin 1010 End 1035

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 28.15
 Depth to Water (ft bmp) 22.15
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.1
 Gallons Pumped/Bailed Prior to Sampling 3.5
 Sample Pump Intake Setting (ft bmp) 26'
 Purge Time begin 0935 end 1010
 Pumping Rate (ml/min) 400
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.02
 SpC (mS/cm) 1.008
 CND (mS/cm) 0.708
 Dissolved Oxygen (%) 24.9
 Dissolved Oxygen (mg/L) 2.87
 pH (s.u.) 7.07
 ORP (mV) 134.8
 Turbidity (NTU) 9.15
 Color clear
 Odor None
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>SVOCs</u>	<u>1-L Amber</u>	<u>2</u>	<u>none</u>
<u>Dissolved TAL Metals</u>	<u>500 mL Plastic</u>	<u>1</u>	<u>HNO3</u>
<u>PCBs</u>	<u>1-L Amber</u>	<u>2</u>	<u>none</u>
<u>Cyanide</u>	<u>250 mL Plastic</u>	<u>1</u>	<u>NaOH</u>
<u>GRO / DRO</u>	<u>40mL voa / 1-L Amber</u>	<u>3 / 2</u>	<u>HCL</u>

Sampling Personnel J. Hamilton

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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WELL: AMW-23

PROJ #: MN000631.0001.00002

DATE: 12/14/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/14/17
 Site/Well No. AMW-23B Replicate No. _____ Code No. _____
 Weather 20°F, Partly cloudy Sampling Time: Begin 1223 End 1300

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 48.65
 Depth to Water (ft bmp) 22.63
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 26.02
 Casing Diameter/Type 2" PVC
 Gallons in Well 4.2
 Gallons Pumped/Bailed Prior to Sampling 4
 Sample Pump Intake Setting (ft bmp) 35ft
 Purge Time begin 1142 end 1223
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.82
 SpC (mS/cm) 0.455
 CND (mS/cm) 0.317
 Dissolved Oxygen (%) 21.2
 Dissolved Oxygen (mg/L) 2.54
 pH (s.u.) 7.92
 ORP (mV) -136.8
 Turbidity (NTU) 2.08
 Color -
 Odor -
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel J. Hamlin

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: Am W-23 B

PROJ #: MN000631.0001.00002

DATE: 12/14/17

LOC: Ford TCAP, St. Paul, MN

[illegible]

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/14/17
 Site/Well No. AMW - 24 Replicate No. _____ Code No. _____
 Weather overcast / 24°F Sampling Time: Begin 1237 End 1310

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.98
 Depth to Water (ft bmp) 18.51
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 6.47
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.04
 Gallons Pumped/Bailed Prior to Sampling 2.5
 Sample Pump Intake Setting (ft bmp) 23
 Purge Time begin 1210 end 1237
 Pumping Rate (ml/min) 300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.49
 SpC (mS/cm) 1.879
 CND (mS/cm) 1.368
 Dissolved Oxygen (%) 25.7
 Dissolved Oxygen (mg/L) 2.82
 pH (s.u.) 6.86
 ORP (mV) -216.1
 Turbidity (NTU) 8.57
 Color Clear
 Odor -
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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WELL: AMW-24

PROJ #: MN000631.0001.00002

DATE: 12/14/17

LOC: Ford TCAP, St. Paul, MN

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Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/14/17
 Site/Well No. Amw-25 Replicate No. _____ Code No. _____
 Weather Overcast/20s Sampling Time: Begin 1330 End 1354

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 23.62
 Depth to Water (ft bmp) 16.45
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 7.17
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling 2.5
 Sample Pump Intake Setting (ft bmp) 22
 Purge Time begin 1300 end 1330
 Pumping Rate (ml/min) 300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.34
 SpC (mS/cm) 2.314
 CND (mS/cm) 1.710
 Dissolved Oxygen (%) 15.8
 Dissolved Oxygen (mg/L) 1.71
 pH (s.u.) 6.99
 ORP (mV) -155.5
 Turbidity (NTU) 4.04
 Color None
 Odor Solvent-like
 Appearance Clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/15/17
 Site/Well No. AMW - 26 Replicate No. _____ Code No. _____
 Weather overcast/20s Sampling Time: Begin 835 End 850

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 86.61
 Depth to Water (ft bmp) 80.12
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.04
 Gallons Pumped/Bailed Prior to Sampling 5
 Sample Pump Intake Setting (ft bmp) 85
 Purge Time begin 817 end 834
 Pumping Rate (ml/min) 1500
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 13.86
 SpC (mS/cm) 1.648
 CND (mS/cm) 1.297
 Dissolved Oxygen (%) 8.5
 Dissolved Oxygen (mg/L) 0.87
 pH (s.u.) 7.02
 ORP (mV) -24.4
 Turbidity (NTU) 11.0
 Color —
 Odor —
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

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WELL: AMW-26

PROJ #: MN000631.0001.00002

DATE: 12/15/17

LOC: Ford TCAP, St. Paul, MN

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Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/18/17
 Site/Well No. AMW-27 Replicate No. _____ Code No. _____
 Weather partly cloudy/31°F Sampling Time: Begin 1110 End 1132

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 107.52
 Depth to Water (ft bmp) 98.20
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.32
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.49
 Gallons Pumped/Bailed Prior to Sampling 12
 Sample Pump Intake Setting (ft bmp) 104
 Purge Time begin 1034 end 1110
 Pumping Rate (ml/min) 1250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.60
 SpC (mS/cm) 0.770
 CND (mS/cm) 0.587
 Dissolved Oxygen (%) 6.1
 Dissolved Oxygen (mg/L) 0.65
 pH (s.u.) 7.19
 ORP (mV) -1.7
 Turbidity (NTU) 9.58
 Color —
 Odor —
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

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WELL: AMW-27

PROJ #: MN000631.0001.00002

DATE: 12/18/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/18/17
 Site/Well No. AMW-28 Replicate No. MS/MSD Code No. _____
 Weather overcast/30s Sampling Time: Begin 1610 End 1730

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 117.06
 Depth to Water (ft bmp) 102.04
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 15.02
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.40
 Gallons Pumped/Bailed Prior to Sampling 11
 Sample Pump Intake Setting (ft bmp) 99
 Purge Time begin 1550 end 1610
 Pumping Rate (ml/min) 2000
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.83
 SpC (mS/cm) 0.648
 CND (mS/cm) 0.498
 Dissolved Oxygen (%) 5.7
 Dissolved Oxygen (mg/L) 0.60
 pH (s.u.) 6.98
 ORP (mV) 115.2
 Turbidity (NTU) 5.5
 Color -
 Odor -
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson / Jeremy Hamlin

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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WELL: Amw-28

PROJ #: MN000631.0001.00002

DATE: 12/18/17

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date _____
 Site/Well No. AMW-29 Replicate No. Dup-03 Code No. _____
 Weather Overcast/30s Sampling Time: Begin 1430 End 1450

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 123.7
 Depth to Water (ft bmp) 113.83
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.87
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.58
 Gallons Pumped/Bailed Prior to Sampling 12
 Sample Pump Intake Setting (ft bmp) 119
 Purge Time begin 1330 end 1430
 Pumping Rate (ml/min) 1000
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 16.10
 SpC (mS/cm) 1.047
 CND (mS/cm) 0.870
 Dissolved Oxygen (%) 52.6
 Dissolved Oxygen (mg/L) 5.14
 pH (s.u.) 3.98
 ORP (mV) 255.6
 Turbidity (NTU) 14.8
 Color -
 Odor -
 Appearance clear
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel

Adam Thompson / Jeremy Hamlin

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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WELL : AMW-29

PROJ #: MN000631.0001.00002

DATE: 12/18/17

LOC: Ford TCAP, St. Paul, MN

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Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/20/17
 Site/Well No. AMW-30 Replicate No. _____ Code No. _____
 Weather overcast/18°F Sampling Time: Begin 1142 End 1200

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 122.40
 Depth to Water (ft bmp) 112.44
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.96
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.59
 Gallons Pumped/Bailed Prior to Sampling 5
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1120 end 1142
 Pumping Rate (ml/min) —
 Evacuation Method Peristaltic Pump Bailer

Field Parameters

Temperature (°C) 12.66
 SpC (mS/cm) 0.979
 CND (mS/cm) 0.749
 Dissolved Oxygen (%) 60.5
 Dissolved Oxygen (mg/L) 6.21
 pH (s.u.) 4.34
 ORP (mV) 109.7
 Turbidity (NTU) OR
 Color Gray
 Odor —
 Appearance Turbid
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson/Brigitte Brown

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: AMW-50

PROJ #: MN000631.0001.00002

DATE: 12-20-67

LOC: Ford TCAP, St. Paul, MN

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ARCADIS

Water Sampling Log

Project Ford TCAP Project No. MN000631.0001.00002 Page 1 of 2
 Location St. Paul, MN Date 12/20/17
 Site/Well No. AMW-31 Replicate No. Code No.
 Weather overcast / 20°F Sampling Time: Begin 1300 End 1315

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 120.15
 Depth to Water (ft bmp) 104.25
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 15.9
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.54
 Gallons Pumped/Bailed Prior to Sampling 7.5
 Sample Pump Intake Setting (ft bmp)
 Purge Time begin 1230 end 1300
 Pumping Rate (ml/min)
 Evacuation Method Peristaltic Pump Bailer

Field Parameters

Temperature (°C) 9.50
 SpC (mS/cm) 1.485
 CND (mS/cm) 1.040
 Dissolved Oxygen (%) 33.1
 Dissolved Oxygen (mg/L) 3.86
 pH (s.u.) 7.40
 ORP (mV) 87.6
 Turbidity (NTU) 206
 Color 999
 Odor
 Appearance turbid
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs	40mL voa	3	HCL
SVOCs	1-L Amber	2	none
Dissolved TAL Metals	500 mL Plastic	1	HNO3
PCBs	1-L Amber	2	none
Cyanide	250 mL Plastic	1	NaOH
GRO / DRO	40mL voa / 1-L Amber	3 / 2	HCL

Sampling Personnel Adam Thompson / Brigitte Brown

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89524-1

Client Project/Site: Ford TCAP - E200572

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

12/29/2017 5:22:19 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Canton

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Job ID: 240-89524-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89524-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/16/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.7° C, 1.1° C, 1.5° C and 2.5° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3), AMW-05B(20171215) (240-89524-4), TRIP BLANK (AMW-26) (240-89524-5), TRIP BLANK (AMW-21) (240-89524-6), TRIP BLANK (AMW-07) (240-89524-7) and TRIP BLANK (AMW-05B) (240-89524-8) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/28/2017.

Methylene Chloride was detected in method blank MB 240-309332/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Toluene-d8 (Surr) failed the surrogate recovery criteria high for 240-89574-F-20 MSD.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Job ID: 240-89524-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

8270C. The samples were prepared on 12/21/2017 and analyzed on 12/22/2017 and 12/26/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Diethyl phthalate was detected in method blank MB 240-308680/16-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Caprolactam failed the recovery criteria low for the MS/MSD of sample 240-89451-7 in batch 240-308835.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/18/2017 and 12/22/2017 and analyzed on 12/20/2017 and 12/23/2017.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-308133/19-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-308849/13-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

WI Diesel Range Organics (C10-C28) failed the recovery criteria low for the MS/MSD of sample 240-89451-7 in batch 240-308394.

Reanalysis of the following sample was performed outside of the analytical holding time since the parent sample and MS/MSD results did not confirm: (240-89649-AN-3-A). It appears the parent sample was contaminated during the extraction process and the MS sample was not spiked. The re-extracted samples confirm the original MS/MSD results. The original set of results is reported for batch QC.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 12/19/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/21/2017 and 12/27/2017 and analyzed on 12/22/2017 and 12/29/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Internal standard (ISTD) response for the following samples exceeded the control limit on the confirmation Column: AMW-21(20171215) (240-89524-2), (240-89451-AF-7-A), (240-89451-AM-7-A MS) and (240-89451-AK-7-A MSD). The sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-07(20171215) (240-89524-3). Reagents: 3394463, 3154249, and 3361889.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Job ID: 240-89524-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-05B(20171215) (240-89524-4). Reagents: 3414954, 3154250, and 3361891.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309223.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/18/2017 and analyzed on 12/19/2017.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/18/2017 and analyzed on 12/20/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/18/2017 and analyzed on 12/19/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-26(20171215) (240-89524-1), AMW-21(20171215) (240-89524-2), AMW-07(20171215) (240-89524-3) and AMW-05B(20171215) (240-89524-4) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared on 12/19/2017 and analyzed on 12/20/2017.

Cyanide, Total was detected in method blank MB 240-308410/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89524-1	AMW-26(20171215)	Water	12/15/17 08:35	12/16/17 10:00
240-89524-2	AMW-21(20171215)	Water	12/15/17 09:55	12/16/17 10:00
240-89524-3	AMW-07(20171215)	Water	12/15/17 11:35	12/16/17 10:00
240-89524-4	AMW-05B(20171215)	Water	12/15/17 13:15	12/16/17 10:00
240-89524-5	TRIP BLANK (AMW-26)	Water	12/15/17 00:00	12/16/17 10:00
240-89524-6	TRIP BLANK (AMW-21)	Water	12/15/17 00:00	12/16/17 10:00
240-89524-7	TRIP BLANK (AMW-07)	Water	12/15/17 00:00	12/16/17 10:00
240-89524-8	TRIP BLANK (AMW-05B)	Water	12/15/17 00:00	12/16/17 10:00

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chlorobenzene	3.7		1.0	0.32	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.30	ug/L	1			8260B	Total/NA
Acenaphthene	0.16	J	0.19	0.043	ug/L	1			8270C	Total/NA
2-Methylnaphthalene	0.24		0.19	0.087	ug/L	1			8270C	Total/NA
Fluorene	0.26		0.19	0.039	ug/L	1			8270C	Total/NA
Naphthalene	0.55		0.19	0.060	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	0.11	B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	240		200	1.3	ug/L	1			6010B	Dissolved
Arsenic	9.6	J	10	4.1	ug/L	1			6010B	Dissolved
Calcium	150000		5000	310	ug/L	1			6010B	Dissolved
Iron	14000		100	26	ug/L	1			6010B	Dissolved
Potassium	5500		5000	560	ug/L	1			6010B	Dissolved
Magnesium	44000		5000	780	ug/L	1			6010B	Dissolved
Manganese	2200		15	2.1	ug/L	1			6010B	Dissolved
Sodium	55000		5000	560	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0038	J B	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.39	J	1.0	0.30	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.050	J B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	34	J	200	1.3	ug/L	1			6010B	Dissolved
Calcium	140000		5000	310	ug/L	1			6010B	Dissolved
Iron	580		100	26	ug/L	1			6010B	Dissolved
Potassium	4900	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	40000		5000	780	ug/L	1			6010B	Dissolved
Manganese	2000		15	2.1	ug/L	1			6010B	Dissolved
Sodium	28000		5000	560	ug/L	1			6010B	Dissolved
Nickel	3.5	J	40	2.2	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0023	J B	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	0.46	J	1.0	0.30	ug/L	1			8260B	Total/NA
Trichloroethene	8.6		1.0	0.33	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.037	J B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	15	J	200	1.3	ug/L	1			6010B	Dissolved
Aluminum	11000		200	47	ug/L	1			6010B	Dissolved
Cadmium	0.60	J	5.0	0.20	ug/L	1			6010B	Dissolved
Chromium	2.3	J	10	0.63	ug/L	1			6010B	Dissolved
Beryllium	2.5	J	5.0	0.60	ug/L	1			6010B	Dissolved
Calcium	96000		5000	310	ug/L	1			6010B	Dissolved
Cobalt	25		7.0	0.75	ug/L	1			6010B	Dissolved
Copper	5.0	J	25	3.5	ug/L	1			6010B	Dissolved
Iron	70	J	100	26	ug/L	1			6010B	Dissolved
Potassium	4900	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	39000		5000	780	ug/L	1			6010B	Dissolved
Manganese	240		15	2.1	ug/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215) (Continued)

Lab Sample ID: 240-89524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14000		5000	560	ug/L	1		6010B	Dissolved
Nickel	90		40	2.2	ug/L	1		6010B	Dissolved
Zinc	140		50	9.7	ug/L	1		6010B	Dissolved
Selenium	2.8	J	5.0	0.89	ug/L	1		6020A	Dissolved
Thallium	2.9		1.0	0.20	ug/L	1		6020A	Dissolved
Cyanide, Total	0.0030	J B	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.6		1.0	0.33	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.075	J B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	55	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	130000		5000	310	ug/L	1		6010B	Dissolved
Cobalt	8.7		7.0	0.75	ug/L	1		6010B	Dissolved
Iron	4900		100	26	ug/L	1		6010B	Dissolved
Potassium	4000	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	42000		5000	780	ug/L	1		6010B	Dissolved
Manganese	180		15	2.1	ug/L	1		6010B	Dissolved
Sodium	38000		5000	560	ug/L	1		6010B	Dissolved
Nickel	11	J	40	2.2	ug/L	1		6010B	Dissolved
Selenium	1.1	J	5.0	0.89	ug/L	1		6020A	Dissolved
Cyanide, Total	0.0025	J B	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: TRIP BLANK (AMW-26)

Lab Sample ID: 240-89524-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.56	J B	1.0	0.53	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK (AMW-21)

Lab Sample ID: 240-89524-6

No Detections.

Client Sample ID: TRIP BLANK (AMW-07)

Lab Sample ID: 240-89524-7

No Detections.

Client Sample ID: TRIP BLANK (AMW-05B)

Lab Sample ID: 240-89524-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Date Collected: 12/15/17 08:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 01:32	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 01:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 01:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 01:32	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 01:32	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 01:32	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 01:32	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 01:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 01:32	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 01:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 01:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 01:32	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 01:32	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 01:32	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 01:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:32	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 01:32	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 01:32	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 01:32	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 01:32	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 01:32	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 01:32	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 01:32	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 01:32	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 01:32	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 01:32	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 01:32	1
Acetone	ND		10	1.8	ug/L			12/28/17 01:32	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 01:32	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 01:32	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 01:32	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 01:32	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 01:32	1
Chlorobenzene	3.7		1.0	0.32	ug/L			12/28/17 01:32	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 01:32	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 01:32	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 01:32	1
cis-1,2-Dichloroethene	1.1		1.0	0.30	ug/L			12/28/17 01:32	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 01:32	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 01:32	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 01:32	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 01:32	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 01:32	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:32	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/28/17 01:32	1
Ethyl ether	ND		2.0	0.35	ug/L			12/28/17 01:32	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:32	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 01:32	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Date Collected: 12/15/17 08:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 01:32	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 01:32	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:32	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:32	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 01:32	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 01:32	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 01:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/28/17 01:32	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 01:32	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/28/17 01:32	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 01:32	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 01:32	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 01:32	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:32	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 01:32	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 01:32	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 01:32	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 01:32	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 01:32	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 01:32	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:32	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 01:32	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 01:32	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		61 - 138		12/28/17 01:32	1
4-Bromofluorobenzene (Surr)	92		69 - 120		12/28/17 01:32	1
Toluene-d8 (Surr)	98		73 - 120		12/28/17 01:32	1
Dibromofluoromethane (Surr)	96		69 - 124		12/28/17 01:32	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	J	0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:08	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/22/17 20:08	1
Acetophenone	ND		0.96	0.33	ug/L		12/21/17 10:30	12/22/17 20:08	1
Anthracene	ND		0.19	0.085	ug/L		12/21/17 10:30	12/22/17 20:08	1
Atrazine	ND		1.9	0.33	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/21/17 10:30	12/22/17 20:08	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/22/17 20:08	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/22/17 20:08	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/21/17 10:30	12/22/17 20:08	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/21/17 10:30	12/22/17 20:08	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/21/17 10:30	12/22/17 20:08	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 20:08	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Date Collected: 12/15/17 08:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/22/17 20:08	1
Carbazole	ND		0.96	0.27	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/22/17 20:08	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Methylnaphthalene	0.24		0.19	0.087	ug/L		12/21/17 10:30	12/22/17 20:08	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/21/17 10:30	12/22/17 20:08	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:08	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/21/17 10:30	12/22/17 20:08	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/22/17 20:08	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/22/17 20:08	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/22/17 20:08	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/22/17 20:08	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/22/17 20:08	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/22/17 20:08	1
Fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:08	1
Fluorene	0.26		0.19	0.039	ug/L		12/21/17 10:30	12/22/17 20:08	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/21/17 10:30	12/22/17 20:08	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/21/17 10:30	12/22/17 20:08	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/21/17 10:30	12/22/17 20:08	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/21/17 10:30	12/22/17 20:08	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/22/17 20:08	1
Isophorone	ND		0.96	0.26	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/21/17 10:30	12/22/17 20:08	1
Naphthalene	0.55		0.19	0.060	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:08	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 20:08	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/21/17 10:30	12/22/17 20:08	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 20:08	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/22/17 20:08	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/21/17 10:30	12/22/17 20:08	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/21/17 10:30	12/22/17 20:08	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/22/17 20:08	1
Phenanthrene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/22/17 20:08	1
Phenol	ND		0.96	0.58	ug/L		12/21/17 10:30	12/22/17 20:08	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/22/17 20:08	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/21/17 10:30	12/22/17 20:08	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Date Collected: 12/15/17 08:35

Matrix: Water

Date Received: 12/16/17 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		38 - 120	12/21/17 10:30	12/22/17 20:08	1
2-Fluorophenol (Surr)	40		10 - 120	12/21/17 10:30	12/22/17 20:08	1
2,4,6-Tribromophenol (Surr)	47		28 - 120	12/21/17 10:30	12/22/17 20:08	1
Nitrobenzene-d5 (Surr)	61		32 - 120	12/21/17 10:30	12/22/17 20:08	1
Phenol-d5 (Surr)	26		10 - 120	12/21/17 10:30	12/22/17 20:08	1
Terphenyl-d14 (Surr)	88		23 - 127	12/21/17 10:30	12/22/17 20:08	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/19/17 00:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/21/17 07:29	12/22/17 15:07	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/21/17 07:29	12/22/17 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		10 - 120	12/21/17 07:29	12/22/17 15:07	1
Tetrachloro-m-xylene	71		22 - 120	12/21/17 07:29	12/22/17 15:07	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.11	B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 00:34	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	240		200	1.3	ug/L		12/18/17 14:00	12/19/17 17:53	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 17:53	1
Cadmium	ND		5.0	0.20	ug/L		12/18/17 14:00	12/19/17 17:53	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 17:53	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 17:53	1
Arsenic	9.6	J	10	4.1	ug/L		12/18/17 14:00	12/19/17 17:53	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 17:53	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 17:53	1
Calcium	150000		5000	310	ug/L		12/18/17 14:00	12/19/17 17:53	1
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 17:53	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 17:53	1
Iron	14000		100	26	ug/L		12/18/17 14:00	12/19/17 17:53	1
Potassium	5500		5000	560	ug/L		12/18/17 14:00	12/19/17 17:53	1
Magnesium	44000		5000	780	ug/L		12/18/17 14:00	12/19/17 17:53	1
Manganese	2200		15	2.1	ug/L		12/18/17 14:00	12/19/17 17:53	1
Sodium	55000		5000	560	ug/L		12/18/17 14:00	12/19/17 17:53	1
Nickel	ND		40	2.2	ug/L		12/18/17 14:00	12/19/17 17:53	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 17:53	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 17:53	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Lab Sample ID: 240-89524-1

Date Collected: 12/15/17 08:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:53	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:55	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:55	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0038	J B	0.010	0.0020	mg/L	-	12/19/17 16:00	12/20/17 11:31	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Date Collected: 12/15/17 09:55

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 01:54	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 01:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 01:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 01:54	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 01:54	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 01:54	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 01:54	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 01:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 01:54	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 01:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 01:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 01:54	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 01:54	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 01:54	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 01:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:54	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 01:54	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 01:54	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 01:54	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 01:54	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 01:54	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 01:54	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 01:54	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 01:54	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 01:54	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 01:54	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 01:54	1
Acetone	ND		10	1.8	ug/L			12/28/17 01:54	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 01:54	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 01:54	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 01:54	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 01:54	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 01:54	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 01:54	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 01:54	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 01:54	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 01:54	1
cis-1,2-Dichloroethene	0.39	J	1.0	0.30	ug/L			12/28/17 01:54	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 01:54	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 01:54	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 01:54	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 01:54	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 01:54	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:54	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/28/17 01:54	1
Ethyl ether	ND		2.0	0.35	ug/L			12/28/17 01:54	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:54	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 01:54	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Date Collected: 12/15/17 09:55

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 01:54	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 01:54	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:54	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:54	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 01:54	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 01:54	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 01:54	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/28/17 01:54	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 01:54	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/28/17 01:54	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 01:54	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 01:54	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 01:54	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:54	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 01:54	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 01:54	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 01:54	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 01:54	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 01:54	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 01:54	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:54	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 01:54	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 01:54	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		61 - 138		12/28/17 01:54	1
4-Bromofluorobenzene (Surr)	93		69 - 120		12/28/17 01:54	1
Toluene-d8 (Surr)	106		73 - 120		12/28/17 01:54	1
Dibromofluoromethane (Surr)	98		69 - 124		12/28/17 01:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:12	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/26/17 13:12	1
Acetophenone	ND		0.95	0.32	ug/L		12/21/17 10:30	12/26/17 13:12	1
Anthracene	ND		0.19	0.084	ug/L		12/21/17 10:30	12/26/17 13:12	1
Atrazine	ND		1.9	0.32	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/21/17 10:30	12/26/17 13:12	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/26/17 13:12	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/26/17 13:12	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/21/17 10:30	12/26/17 13:12	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 13:12	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 13:12	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 13:12	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Date Collected: 12/15/17 09:55

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/26/17 13:12	1
Carbazole	ND		0.95	0.27	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/26/17 13:12	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/21/17 10:30	12/26/17 13:12	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/21/17 10:30	12/26/17 13:12	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:12	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/21/17 10:30	12/26/17 13:12	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/26/17 13:12	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/26/17 13:12	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/26/17 13:12	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/26/17 13:12	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 13:12	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/26/17 13:12	1
Fluoranthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:12	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/26/17 13:12	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/21/17 10:30	12/26/17 13:12	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 13:12	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/21/17 10:30	12/26/17 13:12	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/21/17 10:30	12/26/17 13:12	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/21/17 10:30	12/26/17 13:12	1
Isophorone	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/21/17 10:30	12/26/17 13:12	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:12	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 13:12	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/21/17 10:30	12/26/17 13:12	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 13:12	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/26/17 13:12	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 13:12	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/21/17 10:30	12/26/17 13:12	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/26/17 13:12	1
Phenanthrene	ND		0.19	0.059	ug/L		12/21/17 10:30	12/26/17 13:12	1
Phenol	ND		0.95	0.57	ug/L		12/21/17 10:30	12/26/17 13:12	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/26/17 13:12	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/21/17 10:30	12/26/17 13:12	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Date Collected: 12/15/17 09:55

Matrix: Water

Date Received: 12/16/17 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		38 - 120	12/21/17 10:30	12/26/17 13:12	1
2-Fluorophenol (Surr)	47		10 - 120	12/21/17 10:30	12/26/17 13:12	1
2,4,6-Tribromophenol (Surr)	67		28 - 120	12/21/17 10:30	12/26/17 13:12	1
Nitrobenzene-d5 (Surr)	76		32 - 120	12/21/17 10:30	12/26/17 13:12	1
Phenol-d5 (Surr)	28		10 - 120	12/21/17 10:30	12/26/17 13:12	1
Terphenyl-d14 (Surr)	99		23 - 127	12/21/17 10:30	12/26/17 13:12	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/19/17 01:00	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/21/17 07:29	12/22/17 15:26	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/21/17 07:29	12/22/17 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53		10 - 120	12/21/17 07:29	12/22/17 15:26	1
Tetrachloro-m-xylene	80		22 - 120	12/21/17 07:29	12/22/17 15:26	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.050	J B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 01:02	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	34	J	200	1.3	ug/L		12/18/17 14:00	12/19/17 18:07	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 18:07	1
Cadmium	ND		5.0	0.20	ug/L		12/18/17 14:00	12/19/17 18:07	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 18:07	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 18:07	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 18:07	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 18:07	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 18:07	1
Calcium	140000		5000	310	ug/L		12/18/17 14:00	12/19/17 18:07	1
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 18:07	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 18:07	1
Iron	580		100	26	ug/L		12/18/17 14:00	12/19/17 18:07	1
Potassium	4900	J	5000	560	ug/L		12/18/17 14:00	12/19/17 18:07	1
Magnesium	40000		5000	780	ug/L		12/18/17 14:00	12/19/17 18:07	1
Manganese	2000		15	2.1	ug/L		12/18/17 14:00	12/19/17 18:07	1
Sodium	28000		5000	560	ug/L		12/18/17 14:00	12/19/17 18:07	1
Nickel	3.5	J	40	2.2	ug/L		12/18/17 14:00	12/19/17 18:07	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 18:07	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 18:07	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-21(20171215)

Lab Sample ID: 240-89524-2

Date Collected: 12/15/17 09:55

Matrix: Water

Date Received: 12/16/17 10:00

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 18:07	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 13:00	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 13:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0023	J B	0.010	0.0020	mg/L	-	12/19/17 16:00	12/20/17 11:33	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 02:16	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 02:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 02:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 02:16	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 02:16	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 02:16	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 02:16	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 02:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 02:16	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 02:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 02:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 02:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 02:16	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 02:16	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 02:16	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 02:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 02:16	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 02:16	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 02:16	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 02:16	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 02:16	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 02:16	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 02:16	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 02:16	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 02:16	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 02:16	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 02:16	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 02:16	1
Acetone	ND		10	1.8	ug/L			12/28/17 02:16	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 02:16	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 02:16	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 02:16	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 02:16	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 02:16	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 02:16	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 02:16	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 02:16	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 02:16	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 02:16	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 02:16	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 02:16	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 02:16	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 02:16	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 02:16	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 02:16	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/28/17 02:16	1
Ethyl ether	ND		2.0	0.35	ug/L			12/28/17 02:16	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 02:16	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 02:16	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 02:16	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 02:16	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 02:16	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 02:16	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 02:16	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 02:16	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 02:16	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/28/17 02:16	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 02:16	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/28/17 02:16	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 02:16	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 02:16	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 02:16	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 02:16	1
Tetrachloroethene	0.46	J	1.0	0.30	ug/L			12/28/17 02:16	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 02:16	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 02:16	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 02:16	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 02:16	1
Trichloroethene	8.6		1.0	0.33	ug/L			12/28/17 02:16	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 02:16	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 02:16	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 02:16	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		61 - 138		12/28/17 02:16	1
4-Bromofluorobenzene (Surr)	103		69 - 120		12/28/17 02:16	1
Toluene-d8 (Surr)	111		73 - 120		12/28/17 02:16	1
Dibromofluoromethane (Surr)	107		69 - 124		12/28/17 02:16	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:36	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/26/17 13:36	1
Acetophenone	ND		0.95	0.32	ug/L		12/21/17 10:30	12/26/17 13:36	1
Anthracene	ND		0.19	0.084	ug/L		12/21/17 10:30	12/26/17 13:36	1
Atrazine	ND		1.9	0.32	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/21/17 10:30	12/26/17 13:36	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/26/17 13:36	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/26/17 13:36	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/21/17 10:30	12/26/17 13:36	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 13:36	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 13:36	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 13:36	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/26/17 13:36	1
Carbazole	ND		0.95	0.27	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/26/17 13:36	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/21/17 10:30	12/26/17 13:36	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/21/17 10:30	12/26/17 13:36	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:36	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/21/17 10:30	12/26/17 13:36	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/26/17 13:36	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/26/17 13:36	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/26/17 13:36	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/26/17 13:36	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 13:36	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/26/17 13:36	1
Fluoranthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 13:36	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/26/17 13:36	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/21/17 10:30	12/26/17 13:36	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 13:36	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/21/17 10:30	12/26/17 13:36	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/21/17 10:30	12/26/17 13:36	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/21/17 10:30	12/26/17 13:36	1
Isophorone	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/21/17 10:30	12/26/17 13:36	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 13:36	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 13:36	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/21/17 10:30	12/26/17 13:36	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 13:36	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/26/17 13:36	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 13:36	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/21/17 10:30	12/26/17 13:36	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/26/17 13:36	1
Phenanthrene	ND		0.19	0.059	ug/L		12/21/17 10:30	12/26/17 13:36	1
Phenol	ND		0.95	0.57	ug/L		12/21/17 10:30	12/26/17 13:36	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/26/17 13:36	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/21/17 10:30	12/26/17 13:36	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		38 - 120	12/21/17 10:30	12/26/17 13:36	1
2-Fluorophenol (Surr)	49		10 - 120	12/21/17 10:30	12/26/17 13:36	1
2,4,6-Tribromophenol (Surr)	43		28 - 120	12/21/17 10:30	12/26/17 13:36	1
Nitrobenzene-d5 (Surr)	74		32 - 120	12/21/17 10:30	12/26/17 13:36	1
Phenol-d5 (Surr)	32		10 - 120	12/21/17 10:30	12/26/17 13:36	1
Terphenyl-d14 (Surr)	93		23 - 127	12/21/17 10:30	12/26/17 13:36	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/19/17 01:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.049	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1221	ND		0.20	0.088	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1232	ND		0.20	0.069	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1242	ND		0.20	0.059	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1248	ND		0.20	0.049	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1254	ND		0.20	0.029	ug/L	-	12/21/17 07:29	12/22/17 15:44	1
Aroclor-1260	ND		0.20	0.039	ug/L	-	12/21/17 07:29	12/22/17 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		10 - 120	12/21/17 07:29	12/22/17 15:44	1
Tetrachloro-m-xylene	38		22 - 120	12/21/17 07:29	12/22/17 15:44	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.037	J B	0.095	0.019	mg/L	-	12/18/17 10:23	12/20/17 01:28	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	15	J	200	1.3	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Aluminum	11000		200	47	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Cadmium	0.60	J	5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Chromium	2.3	J	10	0.63	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Beryllium	2.5	J	5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Calcium	96000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Cobalt	25		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Copper	5.0	J	25	3.5	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Iron	70	J	100	26	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Potassium	4900	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Magnesium	39000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Manganese	240		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Sodium	14000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Nickel	90		40	2.2	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 18:11	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 18:11	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	140		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 18:11	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.8	J	5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 13:04	1
Thallium	2.9		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 13:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0030	J B	0.010	0.0020	mg/L	-	12/19/17 16:00	12/20/17 11:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 02:38	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 02:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 02:38	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 02:38	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 02:38	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 02:38	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 02:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 02:38	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 02:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 02:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 02:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 02:38	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 02:38	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 02:38	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 02:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 02:38	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 02:38	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 02:38	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 02:38	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 02:38	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 02:38	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 02:38	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 02:38	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 02:38	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 02:38	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 02:38	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 02:38	1
Acetone	ND		10	1.8	ug/L			12/28/17 02:38	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 02:38	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 02:38	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 02:38	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 02:38	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 02:38	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 02:38	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 02:38	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 02:38	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 02:38	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 02:38	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 02:38	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 02:38	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 02:38	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 02:38	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 02:38	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 02:38	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/28/17 02:38	1
Ethyl ether	ND		2.0	0.35	ug/L			12/28/17 02:38	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 02:38	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 02:38	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 02:38	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 02:38	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 02:38	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 02:38	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 02:38	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 02:38	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/28/17 02:38	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 02:38	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/28/17 02:38	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 02:38	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 02:38	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 02:38	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 02:38	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 02:38	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 02:38	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 02:38	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 02:38	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 02:38	1
Trichloroethene	3.6		1.0	0.33	ug/L			12/28/17 02:38	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 02:38	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 02:38	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 02:38	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 138		12/28/17 02:38	1
4-Bromofluorobenzene (Surr)	91		69 - 120		12/28/17 02:38	1
Toluene-d8 (Surr)	96		73 - 120		12/28/17 02:38	1
Dibromofluoromethane (Surr)	94		69 - 124		12/28/17 02:38	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 14:00	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/26/17 14:00	1
Acetophenone	ND		0.96	0.33	ug/L		12/21/17 10:30	12/26/17 14:00	1
Anthracene	ND		0.19	0.085	ug/L		12/21/17 10:30	12/26/17 14:00	1
Atrazine	ND		1.9	0.33	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/21/17 10:30	12/26/17 14:00	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/26/17 14:00	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/26/17 14:00	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/21/17 10:30	12/26/17 14:00	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/21/17 10:30	12/26/17 14:00	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/21/17 10:30	12/26/17 14:00	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 14:00	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/26/17 14:00	1
Carbazole	ND		0.96	0.27	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/26/17 14:00	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/21/17 10:30	12/26/17 14:00	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/21/17 10:30	12/26/17 14:00	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 14:00	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/21/17 10:30	12/26/17 14:00	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/26/17 14:00	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/26/17 14:00	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/26/17 14:00	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/26/17 14:00	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 14:00	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/26/17 14:00	1
Fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 14:00	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/26/17 14:00	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/21/17 10:30	12/26/17 14:00	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/21/17 10:30	12/26/17 14:00	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/21/17 10:30	12/26/17 14:00	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/21/17 10:30	12/26/17 14:00	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 14:00	1
Isophorone	ND		0.96	0.26	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/21/17 10:30	12/26/17 14:00	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 14:00	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 14:00	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/21/17 10:30	12/26/17 14:00	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 14:00	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/26/17 14:00	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/21/17 10:30	12/26/17 14:00	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/21/17 10:30	12/26/17 14:00	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/26/17 14:00	1
Phenanthrene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 14:00	1
Phenol	ND		0.96	0.58	ug/L		12/21/17 10:30	12/26/17 14:00	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/26/17 14:00	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/21/17 10:30	12/26/17 14:00	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		38 - 120	12/21/17 10:30	12/26/17 14:00	1
2-Fluorophenol (Surr)	48		10 - 120	12/21/17 10:30	12/26/17 14:00	1
2,4,6-Tribromophenol (Surr)	67		28 - 120	12/21/17 10:30	12/26/17 14:00	1
Nitrobenzene-d5 (Surr)	75		32 - 120	12/21/17 10:30	12/26/17 14:00	1
Phenol-d5 (Surr)	30		10 - 120	12/21/17 10:30	12/26/17 14:00	1
Terphenyl-d14 (Surr)	104		23 - 127	12/21/17 10:30	12/26/17 14:00	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/19/17 02:20	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.22	0.055	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1221	ND		0.22	0.099	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1232	ND		0.22	0.077	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1242	ND		0.22	0.066	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1248	ND		0.22	0.055	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1254	ND		0.22	0.033	ug/L	-	12/27/17 09:12	12/29/17 07:53	1
Aroclor-1260	ND		0.22	0.044	ug/L	-	12/27/17 09:12	12/29/17 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	20		10 - 120	12/27/17 09:12	12/29/17 07:53	1
Tetrachloro-m-xylene	58		22 - 120	12/27/17 09:12	12/29/17 07:53	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.075	J B	0.095	0.019	mg/L	-	12/22/17 08:56	12/23/17 02:49	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	55	J	200	1.3	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Calcium	130000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Cobalt	8.7		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Copper	ND		25	3.5	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Iron	4900		100	26	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Potassium	4000	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Magnesium	42000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Manganese	180		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Sodium	38000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Nickel	11	J	40	2.2	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 18:16	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 18:16	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	—	12/18/17 14:00	12/19/17 18:16	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.1	J	5.0	0.89	ug/L	—	12/18/17 14:00	12/20/17 13:08	1
Thallium	ND		1.0	0.20	ug/L	—	12/18/17 14:00	12/20/17 13:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	—	12/18/17 14:00	12/19/17 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0025	J B	0.010	0.0020	mg/L	—	12/19/17 16:00	12/20/17 11:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-26)

Lab Sample ID: 240-89524-5

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 03:00	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 03:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 03:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 03:00	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 03:00	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 03:00	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 03:00	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 03:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 03:00	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 03:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 03:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 03:00	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 03:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 03:00	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 03:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:00	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:00	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 03:00	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 03:00	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 03:00	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 03:00	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 03:00	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 03:00	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 03:00	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 03:00	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 03:00	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 03:00	1
Acetone	ND		10	1.8	ug/L			12/28/17 03:00	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 03:00	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 03:00	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 03:00	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 03:00	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 03:00	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:00	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 03:00	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 03:00	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 03:00	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 03:00	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 03:00	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 03:00	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 03:00	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 03:00	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 03:00	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:00	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 03:00	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 03:00	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:00	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 03:00	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-26)

Lab Sample ID: 240-89524-5

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 03:00	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 03:00	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:00	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:00	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 03:00	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 03:00	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 03:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 03:00	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 03:00	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 03:00	1
Methylene Chloride	0.56	J B	1.0	0.53	ug/L			12/28/17 03:00	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 03:00	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 03:00	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:00	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 03:00	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 03:00	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 03:00	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 03:00	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 03:00	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 03:00	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:00	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 03:00	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 03:00	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 138		12/28/17 03:00	1
4-Bromofluorobenzene (Surr)	111		69 - 120		12/28/17 03:00	1
Toluene-d8 (Surr)	120		73 - 120		12/28/17 03:00	1
Dibromofluoromethane (Surr)	114		69 - 124		12/28/17 03:00	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-21)

Lab Sample ID: 240-89524-6

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 03:22	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 03:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 03:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 03:22	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 03:22	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 03:22	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 03:22	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 03:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 03:22	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 03:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 03:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 03:22	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 03:22	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 03:22	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 03:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:22	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:22	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 03:22	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 03:22	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 03:22	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 03:22	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 03:22	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 03:22	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 03:22	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 03:22	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 03:22	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 03:22	1
Acetone	ND		10	1.8	ug/L			12/28/17 03:22	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 03:22	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 03:22	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 03:22	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 03:22	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 03:22	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:22	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 03:22	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 03:22	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 03:22	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 03:22	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 03:22	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 03:22	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 03:22	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 03:22	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 03:22	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:22	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 03:22	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 03:22	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:22	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 03:22	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-21)

Lab Sample ID: 240-89524-6

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 03:22	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 03:22	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:22	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:22	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 03:22	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 03:22	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 03:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 03:22	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 03:22	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 03:22	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 03:22	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 03:22	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 03:22	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:22	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 03:22	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 03:22	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 03:22	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 03:22	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 03:22	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 03:22	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:22	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 03:22	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 03:22	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		61 - 138		12/28/17 03:22	1
4-Bromofluorobenzene (Surr)	89		69 - 120		12/28/17 03:22	1
Toluene-d8 (Surr)	98		73 - 120		12/28/17 03:22	1
Dibromofluoromethane (Surr)	95		69 - 124		12/28/17 03:22	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-07)

Lab Sample ID: 240-89524-7

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 03:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 03:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 03:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 03:44	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 03:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 03:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 03:44	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 03:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 03:44	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 03:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 03:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 03:44	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 03:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 03:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 03:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 03:44	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:44	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 03:44	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 03:44	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 03:44	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 03:44	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 03:44	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 03:44	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 03:44	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 03:44	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 03:44	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 03:44	1
Acetone	ND		10	1.8	ug/L			12/28/17 03:44	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 03:44	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 03:44	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 03:44	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 03:44	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 03:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 03:44	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 03:44	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 03:44	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 03:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 03:44	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 03:44	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 03:44	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 03:44	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 03:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 03:44	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:44	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 03:44	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 03:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:44	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 03:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-07)

Lab Sample ID: 240-89524-7

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 03:44	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 03:44	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:44	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 03:44	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 03:44	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 03:44	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 03:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 03:44	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 03:44	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 03:44	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 03:44	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 03:44	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 03:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 03:44	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 03:44	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 03:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 03:44	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 03:44	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 03:44	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 03:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 03:44	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 03:44	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 138		12/28/17 03:44	1
4-Bromofluorobenzene (Surr)	89		69 - 120		12/28/17 03:44	1
Toluene-d8 (Surr)	97		73 - 120		12/28/17 03:44	1
Dibromofluoromethane (Surr)	93		69 - 124		12/28/17 03:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-05B)

Lab Sample ID: 240-89524-8

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 04:06	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 04:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 04:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 04:06	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 04:06	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 04:06	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 04:06	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 04:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 04:06	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 04:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 04:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 04:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 04:06	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 04:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 04:06	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 04:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 04:06	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 04:06	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 04:06	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 04:06	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 04:06	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 04:06	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 04:06	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 04:06	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 04:06	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 04:06	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 04:06	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 04:06	1
Acetone	ND		10	1.8	ug/L			12/28/17 04:06	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 04:06	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 04:06	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 04:06	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 04:06	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 04:06	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 04:06	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 04:06	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 04:06	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 04:06	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 04:06	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 04:06	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 04:06	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 04:06	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 04:06	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 04:06	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 04:06	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 04:06	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 04:06	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 04:06	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 04:06	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-05B)

Lab Sample ID: 240-89524-8

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 04:06	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 04:06	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 04:06	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 04:06	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 04:06	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 04:06	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 04:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 04:06	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 04:06	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 04:06	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 04:06	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 04:06	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 04:06	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 04:06	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 04:06	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 04:06	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 04:06	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 04:06	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 04:06	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 04:06	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 04:06	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 04:06	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 04:06	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 138		12/28/17 04:06	1
4-Bromofluorobenzene (Surr)	94		69 - 120		12/28/17 04:06	1
Toluene-d8 (Surr)	100		73 - 120		12/28/17 04:06	1
Dibromofluoromethane (Surr)	94		69 - 124		12/28/17 04:06	1

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89524-1	AMW-26(20171215)	89	92	98	96
240-89524-2	AMW-21(20171215)	90	93	106	98
240-89524-3	AMW-07(20171215)	98	103	111	107
240-89524-4	AMW-05B(20171215)	87	91	96	94
240-89524-5	TRIP BLANK (AMW-26)	108	111	120	114
240-89524-6	TRIP BLANK (AMW-21)	90	89	98	95
240-89524-7	TRIP BLANK (AMW-07)	88	89	97	93
240-89524-8	TRIP BLANK (AMW-05B)	83	94	100	94
240-89574-E-20 MS	Matrix Spike	103	106	118	121
240-89574-F-20 MSD	Matrix Spike Duplicate	119	119	127 X	123
LCS 240-309332/4	Lab Control Sample	95	90	98	96
MB 240-309332/6	Method Blank	87	93	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89524-1	AMW-26(20171215)	75	40	47	61	26	88
240-89524-2	AMW-21(20171215)	92	47	67	76	28	99
240-89524-3	AMW-07(20171215)	90	49	43	74	32	93
240-89524-4	AMW-05B(20171215)	90	48	67	75	30	104
240-89451-AB-7-A MSD	Matrix Spike Duplicate	77	33	79	70	20	68
240-89451-AL-7-A MS	Matrix Spike	76	39	78	68	24	75
LCS 240-308680/17-A	Lab Control Sample	80	44	88	75	28	88
MB 240-308680/16-A	Method Blank	73	46	71	67	30	88

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-120)	TCX2 (22-120)
240-89524-1	AMW-26(20171215)	58	71
240-89524-2	AMW-21(20171215)	53	80

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2 (10-120)	TCX2 (22-120)
240-89524-3	AMW-07(20171215)	38	38
240-89524-4	AMW-05B(20171215)	20	58
240-89451-AK-7-A MSD	Matrix Spike Duplicate	79	85
240-89451-AM-7-A MS	Matrix Spike	71	80
LCS 240-308637/19-A	Lab Control Sample	78	82
LCS 240-309223/16-A	Lab Control Sample	80	72
MB 240-308637/18-A	Method Blank	67	62
MB 240-309223/15-A	Method Blank	77	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309332/6

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 01:10	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 01:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 01:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 01:10	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 01:10	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 01:10	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 01:10	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 01:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 01:10	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 01:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 01:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 01:10	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 01:10	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 01:10	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 01:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 01:10	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 01:10	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 01:10	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 01:10	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 01:10	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 01:10	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 01:10	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 01:10	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 01:10	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 01:10	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 01:10	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 01:10	1
Acetone	ND		10	1.8	ug/L			12/28/17 01:10	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 01:10	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 01:10	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 01:10	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 01:10	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 01:10	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 01:10	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 01:10	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 01:10	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 01:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 01:10	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 01:10	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 01:10	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 01:10	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 01:10	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 01:10	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:10	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/28/17 01:10	1
Ethyl ether	ND		2.0	0.35	ug/L			12/28/17 01:10	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:10	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309332/6

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 01:10	1
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 01:10	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 01:10	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:10	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 01:10	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 01:10	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 01:10	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 01:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/28/17 01:10	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 01:10	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/28/17 01:10	1
Methylene Chloride	0.545	J	1.0	0.53	ug/L			12/28/17 01:10	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 01:10	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 01:10	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 01:10	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 01:10	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 01:10	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 01:10	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 01:10	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 01:10	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 01:10	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 01:10	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 01:10	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 01:10	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 01:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 138		12/28/17 01:10	1
4-Bromofluorobenzene (Surr)	93		69 - 120		12/28/17 01:10	1
Toluene-d8 (Surr)	101		73 - 120		12/28/17 01:10	1
Dibromofluoromethane (Surr)	98		69 - 124		12/28/17 01:10	1

Lab Sample ID: LCS 240-309332/4

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	8.45		ug/L		84	73 - 136
1,1,1-Trichloroethane	10.0	9.05		ug/L		90	64 - 147
1,1,2,2-Tetrachloroethane	10.0	9.45		ug/L		95	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.7		ug/L		117	65 - 144
1,1,2-Trichloroethane	10.0	9.36		ug/L		94	76 - 121
1,1-Dichloroethane	10.0	8.98		ug/L		90	74 - 120
1,1-Dichloroethene	10.0	9.98		ug/L		100	65 - 127
1,1-Dichloropropene	10.0	8.92		ug/L		89	80 - 122
1,2,3-Trichlorobenzene	10.0	7.86		ug/L		79	31 - 144
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	53 - 134

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309332/4

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	7.92		ug/L		79	34 - 141
1,2,4-Trimethylbenzene	10.0	8.10		ug/L		81	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.28		ug/L		93	50 - 130
1,2-Dichlorobenzene	10.0	8.28		ug/L		83	80 - 120
1,2-Dichloroethane	10.0	9.00		ug/L		90	68 - 133
1,2-Dichloropropane	10.0	9.43		ug/L		94	78 - 127
1,3,5-Trimethylbenzene	10.0	8.41		ug/L		84	79 - 120
1,3-Dichlorobenzene	10.0	8.36		ug/L		84	80 - 120
1,3-Dichloropropane	10.0	9.63		ug/L		96	71 - 124
1,4-Dichlorobenzene	10.0	8.55		ug/L		86	80 - 120
Allyl chloride	10.0	9.19		ug/L		92	57 - 143
2,2-Dichloropropane	10.0	7.70		ug/L		77	32 - 178
2-Chlorotoluene	10.0	8.74		ug/L		87	80 - 120
2-Hexanone	20.0	19.9		ug/L		99	28 - 169
Bromobenzene	10.0	9.77		ug/L		98	73 - 120
Bromochloromethane	10.0	9.30		ug/L		93	78 - 120
4-Chlorotoluene	10.0	9.58		ug/L		96	79 - 120
p-Isopropyltoluene	10.0	7.95		ug/L		79	78 - 125
Acetone	20.0	19.0		ug/L		95	35 - 131
Benzene	10.0	8.69		ug/L		87	79 - 120
Bromoform	10.0	9.21		ug/L		92	55 - 145
Bromomethane	10.0	5.73		ug/L		57	17 - 158
Carbon disulfide	10.0	9.28		ug/L		93	49 - 141
Carbon tetrachloride	10.0	9.65		ug/L		97	55 - 171
Chlorobenzene	10.0	8.97		ug/L		90	80 - 120
Chloroethane	10.0	5.17		ug/L		52	10 - 149
Chloroform	10.0	9.06		ug/L		91	80 - 120
Chloromethane	10.0	8.84		ug/L		88	59 - 124
cis-1,2-Dichloroethene	10.0	9.00		ug/L		90	77 - 120
cis-1,3-Dichloropropene	10.0	9.31		ug/L		93	75 - 120
Cyclohexane	10.0	8.95		ug/L		89	66 - 135
Hexachlorobutadiene	10.0	6.82		ug/L		68	36 - 146
Dibromomethane	10.0	9.17		ug/L		92	80 - 120
Bromodichloromethane	10.0	8.92		ug/L		89	79 - 125
Dichlorodifluoromethane	10.0	8.52		ug/L		85	42 - 141
Dichlorofluoromethane	10.0	7.75		ug/L		78	28 - 138
Ethyl ether	10.0	9.57		ug/L		96	72 - 125
Ethylbenzene	10.0	8.35		ug/L		83	80 - 120
1,2-Dibromoethane	10.0	9.87		ug/L		99	80 - 120
Naphthalene	10.0	8.46		ug/L		85	31 - 127
m-Xylene & p-Xylene	10.0	8.17		ug/L		82	80 - 120
n-Butylbenzene	10.0	7.30		ug/L		73	60 - 137
Isopropylbenzene	10.0	7.99		ug/L		80	80 - 128
Methyl acetate	20.0	17.4		ug/L		87	63 - 137
N-Propylbenzene	10.0	8.73		ug/L		87	76 - 120
2-Butanone (MEK)	20.0	24.2		ug/L		121	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	20.0		ug/L		100	53 - 144
sec-Butylbenzene	10.0	8.17		ug/L		82	76 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309332/4

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	10.0	9.02		ug/L		90	73 - 120
Methylene Chloride	10.0	9.15		ug/L		91	64 - 140
o-Xylene	10.0	8.20		ug/L		82	80 - 120
Styrene	10.0	8.19		ug/L		82	80 - 121
tert-Butylbenzene	10.0	9.42		ug/L		94	79 - 120
Tetrachloroethene	10.0	9.39		ug/L		94	80 - 122
Tetrahydrofuran	20.0	19.2		ug/L		96	63 - 131
Toluene	10.0	8.77		ug/L		88	78 - 120
trans-1,2-Dichloroethene	10.0	9.25		ug/L		92	74 - 124
trans-1,3-Dichloropropene	10.0	8.79		ug/L		88	67 - 120
Trichloroethene	10.0	9.05		ug/L		90	76 - 124
Trichlorofluoromethane	10.0	8.72		ug/L		87	27 - 176
Vinyl chloride	10.0	8.92		ug/L		89	65 - 124
Methylcyclohexane	10.0	8.46		ug/L		85	63 - 141
Chlorodibromomethane	10.0	9.45		ug/L		95	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		61 - 138
4-Bromofluorobenzene (Surr)	90		69 - 120
Toluene-d8 (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	96		69 - 124

Lab Sample ID: 240-89574-E-20 MS

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		10.0	10.4		ug/L		104	69 - 127
Ethylbenzene	ND		10.0	9.45		ug/L		95	72 - 121
Naphthalene	ND		10.0	9.14		ug/L		91	28 - 150
m-Xylene & p-Xylene	ND		10.0	8.89		ug/L		89	70 - 121
Isopropylbenzene	0.36	J	10.0	9.24		ug/L		89	70 - 132
Methyl tert butyl ether	0.55	J	10.0	11.7		ug/L		112	67 - 125
o-Xylene	ND		10.0	9.28		ug/L		93	71 - 125
Toluene	ND		10.0	9.64		ug/L		96	69 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		61 - 138
4-Bromofluorobenzene (Surr)	106		69 - 120
Toluene-d8 (Surr)	118		73 - 120
Dibromofluoromethane (Surr)	121		69 - 124

Lab Sample ID: 240-89574-F-20 MSD

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		10.0	11.1		ug/L		111	69 - 127	7	10

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89574-F-20 MSD

Matrix: Water

Analysis Batch: 309332

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		10.0	10.4		ug/L		104	72 - 121	10	15
Naphthalene	ND		10.0	11.5		ug/L		115	28 - 150	23	35
m-Xylene & p-Xylene	ND		10.0	9.69		ug/L		97	70 - 121	9	15
Isopropylbenzene	0.36	J	10.0	9.48		ug/L		91	70 - 132	3	16
Methyl tert butyl ether	0.55	J	10.0	12.6		ug/L		121	67 - 125	7	12
o-Xylene	ND		10.0	9.65		ug/L		96	71 - 125	4	15
Toluene	ND		10.0	10.4		ug/L		104	69 - 125	7	14
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	119		61 - 138								
4-Bromofluorobenzene (Surr)	119		69 - 120								
Toluene-d8 (Surr)	127	X	73 - 120								
Dibromofluoromethane (Surr)	123		69 - 124								

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-308680/16-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/21/17 10:30	12/22/17 14:55	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/21/17 10:30	12/22/17 14:55	1
Acetophenone	ND		1.0	0.34	ug/L		12/21/17 10:30	12/22/17 14:55	1
Anthracene	ND		0.20	0.088	ug/L		12/21/17 10:30	12/22/17 14:55	1
Atrazine	ND		2.0	0.34	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/21/17 10:30	12/22/17 14:55	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/21/17 10:30	12/22/17 14:55	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 14:55	1
Caprolactam	ND		5.0	0.20	ug/L		12/21/17 10:30	12/22/17 14:55	1
Carbazole	ND		1.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/21/17 10:30	12/22/17 14:55	1
Chrysene	ND		0.20	0.050	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/21/17 10:30	12/22/17 14:55	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/21/17 10:30	12/22/17 14:55	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308680/16-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/21/17 10:30	12/22/17 14:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/21/17 10:30	12/22/17 14:55	1
Diethyl phthalate	0.624	J	2.0	0.60	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/21/17 10:30	12/22/17 14:55	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/21/17 10:30	12/22/17 14:55	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/21/17 10:30	12/22/17 14:55	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/21/17 10:30	12/22/17 14:55	1
Fluoranthene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Fluorene	ND		0.20	0.041	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/21/17 10:30	12/22/17 14:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/21/17 10:30	12/22/17 14:55	1
Isophorone	ND		1.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/21/17 10:30	12/22/17 14:55	1
Naphthalene	ND		0.20	0.063	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 14:55	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/21/17 10:30	12/22/17 14:55	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/21/17 10:30	12/22/17 14:55	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
Phenanthrene	ND		0.20	0.062	ug/L		12/21/17 10:30	12/22/17 14:55	1
Phenol	ND		1.0	0.60	ug/L		12/21/17 10:30	12/22/17 14:55	1
Pyrene	ND		0.20	0.042	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/21/17 10:30	12/22/17 14:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		38 - 120	12/21/17 10:30	12/22/17 14:55	1
2-Fluorophenol (Surr)	46		10 - 120	12/21/17 10:30	12/22/17 14:55	1
2,4,6-Tribromophenol (Surr)	71		28 - 120	12/21/17 10:30	12/22/17 14:55	1
Nitrobenzene-d5 (Surr)	67		32 - 120	12/21/17 10:30	12/22/17 14:55	1
Phenol-d5 (Surr)	30		10 - 120	12/21/17 10:30	12/22/17 14:55	1
Terphenyl-d14 (Surr)	88		23 - 127	12/21/17 10:30	12/22/17 14:55	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308680/17-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	15.2		ug/L		76	54 - 120
Acenaphthylene	20.0	14.8		ug/L		74	53 - 120
Acetophenone	20.0	14.1		ug/L		71	56 - 120
Anthracene	20.0	16.7		ug/L		84	56 - 120
Atrazine	40.0	36.4		ug/L		91	61 - 127
Benzaldehyde	40.0	30.6		ug/L		76	47 - 134
Benzo[a]anthracene	20.0	16.3		ug/L		81	54 - 120
Benzo[b]fluoranthene	20.0	15.9		ug/L		80	53 - 120
Benzo[k]fluoranthene	20.0	15.1		ug/L		76	55 - 120
Benzo[g,h,i]perylene	20.0	15.1		ug/L		76	55 - 120
Benzo[a]pyrene	20.0	15.6		ug/L		78	54 - 120
Butyl benzyl phthalate	20.0	16.7		ug/L		84	51 - 120
1,1'-Biphenyl	20.0	15.0		ug/L		75	53 - 120
Bis(2-chloroethoxy)methane	20.0	14.5		ug/L		73	56 - 120
Bis(2-chloroethyl)ether	20.0	13.9		ug/L		70	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	15.4		ug/L		77	50 - 120
4-Bromophenyl phenyl ether	20.0	17.0		ug/L		85	54 - 120
Caprolactam	40.0	4.02	J	ug/L		10	10 - 120
Carbazole	20.0	17.3		ug/L		87	62 - 120
4-Chloroaniline	20.0	5.02		ug/L		25	10 - 120
4-Chloro-3-methylphenol	20.0	13.9		ug/L		70	54 - 120
2-Chloronaphthalene	20.0	15.1		ug/L		75	53 - 120
2-Chlorophenol	20.0	13.2		ug/L		66	53 - 120
4-Chlorophenyl phenyl ether	20.0	15.7		ug/L		79	56 - 120
Chrysene	20.0	16.6		ug/L		83	56 - 120
2-Methylnaphthalene	20.0	13.8		ug/L		69	54 - 120
3 & 4 Methylphenol	20.0	10.9		ug/L		55	40 - 120
Dibenz(a,h)anthracene	20.0	15.2		ug/L		76	52 - 120
Dibenzofuran	20.0	15.9		ug/L		79	55 - 120
3,3'-Dichlorobenzidine	40.0	34.4		ug/L		86	57 - 120
2,4-Dichlorophenol	20.0	14.4		ug/L		72	55 - 120
Diethyl phthalate	20.0	17.8		ug/L		89	42 - 132
2,4-Dimethylphenol	20.0	13.8		ug/L		69	52 - 120
Dimethyl phthalate	20.0	16.7		ug/L		83	56 - 120
4,6-Dinitro-2-methylphenol	40.0	28.8		ug/L		72	36 - 120
2,4-Dinitrophenol	40.0	26.6		ug/L		66	12 - 120
2,4-Dinitrotoluene	20.0	18.0		ug/L		90	60 - 120
Di-n-butyl phthalate	20.0	17.0		ug/L		85	61 - 120
Di-n-octyl phthalate	20.0	12.6		ug/L		63	58 - 120
Fluoranthene	20.0	17.2		ug/L		86	58 - 120
Fluorene	20.0	15.9		ug/L		79	56 - 120
Hexachlorobenzene	20.0	16.1		ug/L		80	51 - 120
Hexachlorobutadiene	20.0	11.2		ug/L		56	44 - 120
Hexachlorocyclopentadiene	20.0	11.1		ug/L		56	19 - 120
Hexachloroethane	20.0	10.6		ug/L		53	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.0		ug/L		75	54 - 120
Isophorone	20.0	14.0		ug/L		70	55 - 120
2-Methylphenol	20.0	12.0		ug/L		60	46 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308680/17-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	13.5		ug/L		68	53 - 120
2-Nitroaniline	20.0	16.5		ug/L		83	51 - 120
3-Nitroaniline	20.0	15.9		ug/L		79	53 - 120
4-Nitroaniline	20.0	16.7		ug/L		84	55 - 120
Nitrobenzene	20.0	14.3		ug/L		72	55 - 120
2-Nitrophenol	20.0	14.2		ug/L		71	54 - 120
4-Nitrophenol	40.0	13.9		ug/L		35	10 - 120
N-Nitrosodiphenylamine	20.0	16.5		ug/L		82	55 - 120
N-Nitrosodi-n-propylamine	20.0	13.9		ug/L		69	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.9		ug/L		69	45 - 120
Pentachlorophenol	40.0	33.8		ug/L		85	30 - 120
Phenanthrene	20.0	16.2		ug/L		81	55 - 120
Phenol	20.0	5.40		ug/L		27	10 - 120
Pyrene	20.0	17.2		ug/L		86	57 - 120
2,4,5-Trichlorophenol	20.0	16.9		ug/L		84	54 - 120
2,4,6-Trichlorophenol	20.0	15.3		ug/L		76	54 - 120
2,6-Dinitrotoluene	20.0	16.7		ug/L		84	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	80		38 - 120
2-Fluorophenol (Surr)	44		10 - 120
2,4,6-Tribromophenol (Surr)	88		28 - 120
Nitrobenzene-d5 (Surr)	75		32 - 120
Phenol-d5 (Surr)	28		10 - 120
Terphenyl-d14 (Surr)	88		23 - 127

Lab Sample ID: 240-89451-AB-7-A MSD

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	ND		19.2	14.2		ug/L		74	35 - 120	2	35
Acenaphthylene	ND		19.2	13.5		ug/L		70	36 - 120	2	35
Acetophenone	ND		19.2	12.9		ug/L		67	42 - 120	1	31
Anthracene	ND		19.2	14.9		ug/L		77	35 - 120	2	35
Atrazine	ND		38.5	33.4		ug/L		87	47 - 121	0	25
Benzaldehyde	ND		38.5	27.3		ug/L		71	46 - 120	1	35
Benzo[a]anthracene	ND		19.2	12.5		ug/L		65	16 - 120	7	35
Benzo[b]fluoranthene	ND		19.2	11.4		ug/L		59	10 - 120	8	35
Benzo[k]fluoranthene	ND		19.2	11.3		ug/L		59	10 - 120	7	35
Benzo[g,h,i]perylene	ND		19.2	10.3		ug/L		54	10 - 120	13	35
Benzo[a]pyrene	ND		19.2	10.9		ug/L		57	10 - 120	8	35
Butyl benzyl phthalate	ND		19.2	15.0		ug/L		78	39 - 120	2	30
1,1'-Biphenyl	ND		19.2	13.9		ug/L		72	45 - 120	3	26
Bis(2-chloroethoxy)methane	ND		19.2	13.2		ug/L		69	44 - 120	2	32
Bis(2-chloroethyl)ether	ND		19.2	12.3		ug/L		64	42 - 120	1	35
Bis(2-ethylhexyl) phthalate	ND		19.2	10.0		ug/L		52	15 - 120	15	35
4-Bromophenyl phenyl ether	ND		19.2	15.3		ug/L		80	41 - 120	1	27

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-AB-7-A MSD

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Caprolactam	ND	F1	38.5	1.99	J F1	ug/L		5	10 - 120	22	33
Carbazole	ND		19.2	15.7		ug/L		82	55 - 120	2	24
4-Chloroaniline	ND		19.2	2.32		ug/L		12	10 - 120	8	35
4-Chloro-3-methylphenol	ND		19.2	12.6		ug/L		65	32 - 120	0	32
2-Chloronaphthalene	ND		19.2	14.0		ug/L		73	42 - 120	6	28
2-Chlorophenol	ND		19.2	11.3		ug/L		59	29 - 120	2	35
4-Chlorophenyl phenyl ether	ND		19.2	14.5		ug/L		76	43 - 120	0	27
Chrysene	ND		19.2	13.0		ug/L		68	14 - 120	8	35
2-Methylnaphthalene	ND		19.2	12.8		ug/L		67	43 - 120	4	30
3 & 4 Methylphenol	ND		19.2	8.50		ug/L		44	15 - 120	10	35
Dibenz(a,h)anthracene	ND		19.2	9.84		ug/L		51	10 - 120	15	35
Dibenzofuran	ND		19.2	14.6		ug/L		76	46 - 120	2	25
3,3'-Dichlorobenzidine	ND		38.5	28.8		ug/L		75	10 - 120	3	35
2,4-Dichlorophenol	ND		19.2	12.6		ug/L		66	19 - 121	1	34
Diethyl phthalate	0.61	J B	19.2	16.6		ug/L		83	49 - 120	2	24
2,4-Dimethylphenol	ND		19.2	12.5		ug/L		65	16 - 120	4	35
Dimethyl phthalate	ND		19.2	15.5		ug/L		81	47 - 120	2	24
4,6-Dinitro-2-methylphenol	ND		38.5	25.0		ug/L		65	10 - 120	0	35
2,4-Dinitrophenol	ND		38.5	5.56		ug/L		14	10 - 120	24	35
2,4-Dinitrotoluene	ND		19.2	16.1		ug/L		84	49 - 120	1	26
Di-n-butyl phthalate	ND		19.2	15.2		ug/L		79	42 - 120	3	27
Di-n-octyl phthalate	ND		19.2	8.47		ug/L		44	13 - 120	13	35
Fluoranthene	ND		19.2	15.0		ug/L		78	28 - 120	5	35
Fluorene	ND		19.2	15.0		ug/L		78	36 - 120	1	35
Hexachlorobenzene	ND		19.2	13.8		ug/L		72	31 - 120	3	26
Hexachlorobutadiene	ND		19.2	10.6		ug/L		55	30 - 120	2	35
Hexachlorocyclopentadiene	ND		19.2	10.0		ug/L		52	10 - 120	3	35
Hexachloroethane	ND		19.2	10.4		ug/L		54	12 - 120	5	35
Indeno[1,2,3-cd]pyrene	ND		19.2	10.4		ug/L		54	10 - 120	9	35
Isophorone	ND		19.2	12.7		ug/L		66	45 - 120	1	33
2-Methylphenol	ND		19.2	9.80		ug/L		51	18 - 120	7	35
Naphthalene	ND		19.2	12.3		ug/L		64	32 - 120	0	35
2-Nitroaniline	ND		19.2	15.1		ug/L		79	35 - 120	0	28
3-Nitroaniline	ND		19.2	13.3		ug/L		69	10 - 120	2	35
4-Nitroaniline	ND		19.2	15.0		ug/L		78	10 - 120	1	35
Nitrobenzene	ND		19.2	12.9		ug/L		67	48 - 120	1	35
2-Nitrophenol	ND		19.2	10.5		ug/L		54	43 - 120	2	35
4-Nitrophenol	ND		38.5	9.36		ug/L		24	10 - 120	16	35
N-Nitrosodiphenylamine	ND		19.2	14.8		ug/L		77	39 - 120	1	35
N-Nitrosodi-n-propylamine	ND		19.2	12.2		ug/L		64	45 - 120	2	33
2,2'-oxybis[1-chloropropane]	ND		19.2	12.6		ug/L		66	44 - 120	2	34
Pentachlorophenol	ND		38.5	22.6		ug/L		59	20 - 120	0	24
Phenanthrene	ND		19.2	14.9		ug/L		78	36 - 120	0	35
Phenol	ND		19.2	3.71		ug/L		19	10 - 120	18	35
Pyrene	ND		19.2	15.5		ug/L		81	28 - 120	1	35
2,4,5-Trichlorophenol	ND		19.2	14.1		ug/L		73	20 - 120	1	33
2,4,6-Trichlorophenol	ND		19.2	10.8		ug/L		56	40 - 120	1	29
2,6-Dinitrotoluene	ND		19.2	16.0		ug/L		83	48 - 120	0	25

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-AB-7-A MSD

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308680

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		38 - 120
2-Fluorophenol (Surr)	33		10 - 120
2,4,6-Tribromophenol (Surr)	79		28 - 120
Nitrobenzene-d5 (Surr)	70		32 - 120
Phenol-d5 (Surr)	20		10 - 120
Terphenyl-d14 (Surr)	68		23 - 127

Lab Sample ID: 240-89451-AL-7-A MS

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	ND		19.2	14.0		ug/L		73	35 - 120
Acenaphthylene	ND		19.2	13.2		ug/L		69	36 - 120
Acetophenone	ND		19.2	12.8		ug/L		66	42 - 120
Anthracene	ND		19.2	15.1		ug/L		79	35 - 120
Atrazine	ND		38.5	33.5		ug/L		87	47 - 121
Benzaldehyde	ND		38.5	27.5		ug/L		72	46 - 120
Benzo[a]anthracene	ND		19.2	13.4		ug/L		70	16 - 120
Benzo[b]fluoranthene	ND		19.2	12.4		ug/L		64	10 - 120
Benzo[k]fluoranthene	ND		19.2	12.1		ug/L		63	10 - 120
Benzo[g,h,i]perylene	ND		19.2	11.8		ug/L		61	10 - 120
Benzo[a]pyrene	ND		19.2	11.9		ug/L		62	10 - 120
Butyl benzyl phthalate	ND		19.2	15.2		ug/L		79	39 - 120
1,1'-Biphenyl	ND		19.2	13.5		ug/L		70	45 - 120
Bis(2-chloroethoxy)methane	ND		19.2	12.9		ug/L		67	44 - 120
Bis(2-chloroethyl)ether	ND		19.2	12.4		ug/L		64	42 - 120
Bis(2-ethylhexyl) phthalate	ND		19.2	11.6		ug/L		60	15 - 120
4-Bromophenyl phenyl ether	ND		19.2	15.1		ug/L		79	41 - 120
Caprolactam	ND	F1	38.5	2.48	J F1	ug/L		6	10 - 120
Carbazole	ND		19.2	16.0		ug/L		83	55 - 120
4-Chloroaniline	ND		19.2	2.50		ug/L		13	10 - 120
4-Chloro-3-methylphenol	ND		19.2	12.6		ug/L		66	32 - 120
2-Chloronaphthalene	ND		19.2	13.3		ug/L		69	42 - 120
2-Chlorophenol	ND		19.2	11.5		ug/L		60	29 - 120
4-Chlorophenyl phenyl ether	ND		19.2	14.5		ug/L		75	43 - 120
Chrysene	ND		19.2	14.1		ug/L		73	14 - 120
2-Methylnaphthalene	ND		19.2	12.4		ug/L		64	43 - 120
3 & 4 Methylphenol	ND		19.2	9.37		ug/L		49	15 - 120
Dibenz(a,h)anthracene	ND		19.2	11.4		ug/L		60	10 - 120
Dibenzofuran	ND		19.2	14.2		ug/L		74	46 - 120
3,3'-Dichlorobenzidine	ND		38.5	29.6		ug/L		77	10 - 120
2,4-Dichlorophenol	ND		19.2	12.5		ug/L		65	19 - 121
Diethyl phthalate	0.61	J B	19.2	16.3		ug/L		81	49 - 120
2,4-Dimethylphenol	ND		19.2	12.0		ug/L		63	16 - 120
Dimethyl phthalate	ND		19.2	15.2		ug/L		79	47 - 120
4,6-Dinitro-2-methylphenol	ND		38.5	24.9		ug/L		65	10 - 120
2,4-Dinitrophenol	ND		38.5	4.38	J	ug/L		11	10 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-AL-7-A MS

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		19.2	16.3		ug/L		85	49 - 120
Di-n-butyl phthalate	ND		19.2	15.6		ug/L		81	42 - 120
Di-n-octyl phthalate	ND		19.2	9.61		ug/L		50	13 - 120
Fluoranthene	ND		19.2	15.7		ug/L		82	28 - 120
Fluorene	ND		19.2	14.9		ug/L		77	36 - 120
Hexachlorobenzene	ND		19.2	14.3		ug/L		74	31 - 120
Hexachlorobutadiene	ND		19.2	10.9		ug/L		57	30 - 120
Hexachlorocyclopentadiene	ND		19.2	10.3		ug/L		54	10 - 120
Hexachloroethane	ND		19.2	10.9		ug/L		57	12 - 120
Indeno[1,2,3-cd]pyrene	ND		19.2	11.3		ug/L		59	10 - 120
Isophorone	ND		19.2	12.6		ug/L		66	45 - 120
2-Methylphenol	ND		19.2	10.5		ug/L		55	18 - 120
Naphthalene	ND		19.2	12.4		ug/L		65	32 - 120
2-Nitroaniline	ND		19.2	15.1		ug/L		78	35 - 120
3-Nitroaniline	ND		19.2	13.5		ug/L		70	10 - 120
4-Nitroaniline	ND		19.2	15.2		ug/L		79	10 - 120
Nitrobenzene	ND		19.2	12.7		ug/L		66	48 - 120
2-Nitrophenol	ND		19.2	10.3		ug/L		53	43 - 120
4-Nitrophenol	ND		38.5	11.0		ug/L		29	10 - 120
N-Nitrosodiphenylamine	ND		19.2	14.6		ug/L		76	39 - 120
N-Nitrosodi-n-propylamine	ND		19.2	12.5		ug/L		65	45 - 120
2,2'-oxybis[1-chloropropane]	ND		19.2	12.8		ug/L		67	44 - 120
Pentachlorophenol	ND		38.5	22.6		ug/L		59	20 - 120
Phenanthrene	ND		19.2	14.9		ug/L		78	36 - 120
Phenol	ND		19.2	4.45		ug/L		23	10 - 120
Pyrene	ND		19.2	15.4		ug/L		80	28 - 120
2,4,5-Trichlorophenol	ND		19.2	14.2		ug/L		74	20 - 120
2,4,6-Trichlorophenol	ND		19.2	11.0		ug/L		57	40 - 120
2,6-Dinitrotoluene	ND		19.2	15.9		ug/L		83	48 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		38 - 120
2-Fluorophenol (Surr)	39		10 - 120
2,4,6-Tribromophenol (Surr)	78		28 - 120
Nitrobenzene-d5 (Surr)	68		32 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	75		23 - 127

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-308106/4

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 10:55	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 240-308106/5

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	788		ug/L		98	80 - 120

Lab Sample ID: LCSD 240-308106/28

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	686		ug/L		86	80 - 120	14	20

Lab Sample ID: 240-89451-A-7 MS

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	ND		800	665		ug/L		83	80 - 120

Lab Sample ID: 240-89451-A-7 MSD

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		800	746		ug/L		93	80 - 120	12	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-308637/18-A

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/21/17 07:29	12/22/17 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		10 - 120	12/21/17 07:29	12/22/17 11:27	1
Tetrachloro-m-xylene	62		22 - 120	12/21/17 07:29	12/22/17 11:27	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-308637/19-A

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308637

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Aroclor-1016			2.50	1.86		ug/L		75		28 - 120	
Aroclor-1260			2.50	2.24		ug/L		90		30 - 120	
Surrogate	LCS		Limits								
	%Recovery	LCS Qualifier									
DCB Decachlorobiphenyl	78		10 - 120								
Tetrachloro-m-xylene	82		22 - 120								

Lab Sample ID: 240-89451-AK-7-A MSD

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308637

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	ND	*	2.38	1.81		ug/L		76	14 - 120	4	30
Aroclor-1260	ND	*	2.38	2.30		ug/L		97	10 - 120	7	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	79		10 - 120								
Tetrachloro-m-xylene	85		22 - 120								

Lab Sample ID: 240-89451-AM-7-A MS

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308637

	Sample	Sample	Spike	MS	MS			%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aroclor-1016	ND	*	2.38	1.74		ug/L		73	14 - 120	
Aroclor-1260	ND	*	2.38	2.14		ug/L		90	10 - 120	
Surrogate	MS %Recovery	MS Qualifier	Limits							
DCB Decachlorobiphenyl	71		10 - 120							
Tetrachloro-m-xylene	80		22 - 120							

Lab Sample ID: MB 240-309223/15-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309223

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/27/17 09:12	12/29/17 07:18	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
DCB Decachlorobiphenyl	77		10 - 120				12/27/17 09:12	12/29/17 07:18	1
Tetrachloro-m-xylene	79		22 - 120				12/27/17 09:12	12/29/17 07:18	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Lab Sample ID: LCS 240-309223/16-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.75		ug/L		70	28 - 120
Aroclor-1260	2.50	1.98		ug/L		79	30 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	80		10 - 120				
Tetrachloro-m-xylene	72		22 - 120				

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-308133/19-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0276	J	0.10	0.020	mg/L		12/18/17 10:23	12/19/17 18:43	1

Lab Sample ID: LCS 240-308133/20-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.445		mg/L		89	75 - 115

Lab Sample ID: LCSD 240-308133/21-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.489		mg/L		98	75 - 115	10	20

Lab Sample ID: 240-89451-AJ-7-A MSD

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.331	F1	mg/L		59	60 - 130	3	25

Lab Sample ID: 240-89451-AP-7-A MS

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.320	F1	mg/L		57	60 - 130

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: MB 240-308849/13-A
Matrix: Water
Analysis Batch: 308957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0272	J	0.10	0.020	mg/L	-	12/22/17 08:56	12/22/17 21:50	1

Lab Sample ID: LCS 240-308849/14-A
Matrix: Water
Analysis Batch: 308957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.437		mg/L	-	87	75 - 115

Lab Sample ID: LCSD 240-308849/15-A
Matrix: Water
Analysis Batch: 308957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.452		mg/L	-	90	75 - 115	4	20

Lab Sample ID: 240-89649-AL-3-A MSD
Matrix: Water
Analysis Batch: 308957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.485	0.407	F2 F1	mg/L	-	-101	60 - 130	166	25

Lab Sample ID: 240-89649-AM-3-A MS
Matrix: Water
Analysis Batch: 308957

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.481	0.0379	J F1	mg/L	-	-178	60 - 130

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-308170/1-A
Matrix: Water
Analysis Batch: 308336

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	1.3	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 16:04	1
Calcium	ND		5000	310	ug/L	-	12/18/17 14:00	12/19/17 16:04	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-308170/1-A

Matrix: Water

Analysis Batch: 308336

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 308170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 16:04	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 16:04	1
Iron	ND		100	26	ug/L		12/18/17 14:00	12/19/17 16:04	1
Potassium	ND		5000	560	ug/L		12/18/17 14:00	12/19/17 16:04	1
Magnesium	ND		5000	780	ug/L		12/18/17 14:00	12/19/17 16:04	1
Manganese	ND		15	2.1	ug/L		12/18/17 14:00	12/19/17 16:04	1
Sodium	ND		5000	560	ug/L		12/18/17 14:00	12/19/17 16:04	1
Nickel	ND		40	2.2	ug/L		12/18/17 14:00	12/19/17 16:04	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 16:04	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 16:04	1
Zinc	ND		50	9.7	ug/L		12/18/17 14:00	12/19/17 16:04	1

Lab Sample ID: LCS 240-308170/2-A

Matrix: Water

Analysis Batch: 308336

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 308170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2090		ug/L		104	80 - 120
Aluminum	2000	2110		ug/L		105	80 - 120
Cadmium	50.0	54.8		ug/L		110	80 - 120
Chromium	200	211		ug/L		105	80 - 120
Silver	50.0	52.8		ug/L		106	80 - 120
Arsenic	2000	2190		ug/L		109	80 - 120
Beryllium	50.0	52.3		ug/L		105	80 - 120
Lead	500	521		ug/L		104	80 - 120
Calcium	50000	51600		ug/L		103	80 - 120
Cobalt	500	516		ug/L		103	80 - 120
Copper	250	262		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Potassium	50000	51400		ug/L		103	80 - 120
Magnesium	50000	51600		ug/L		103	80 - 120
Manganese	500	541		ug/L		108	80 - 120
Sodium	50000	52100		ug/L		104	80 - 120
Nickel	500	532		ug/L		106	80 - 120
Antimony	500	536		ug/L		107	80 - 120
Vanadium	500	533		ug/L		107	80 - 120
Zinc	500	538		ug/L		108	80 - 120

Lab Sample ID: 240-89451-W-7-B MS

Matrix: Water

Analysis Batch: 308336

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	210		2000	2340		ug/L		106	75 - 125
Aluminum	ND		2000	2160		ug/L		108	75 - 125
Cadmium	ND		50.0	56.2		ug/L		112	75 - 125
Chromium	ND		200	212		ug/L		106	75 - 125
Silver	ND		50.0	53.8		ug/L		108	75 - 125
Arsenic	5.6	J	2000	2260		ug/L		112	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89451-W-7-B MS

Matrix: Water

Analysis Batch: 308336

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		50.0	53.3		ug/L		107	75 - 125
Lead	ND		500	524		ug/L		105	75 - 125
Calcium	83000		50000	134000		ug/L		103	75 - 125
Cobalt	ND		500	532		ug/L		106	75 - 125
Copper	ND		250	267		ug/L		107	75 - 125
Iron	3500		1000	4480		ug/L		98	75 - 125
Potassium	2100	J	50000	54900		ug/L		106	75 - 125
Magnesium	28000		50000	80200		ug/L		103	75 - 125
Manganese	230		500	776		ug/L		109	75 - 125
Sodium	10000		50000	63300		ug/L		106	75 - 125
Nickel	ND		500	547		ug/L		109	75 - 125
Antimony	ND		500	551		ug/L		110	75 - 125
Vanadium	ND		500	530		ug/L		106	75 - 125
Zinc	ND		500	556		ug/L		111	75 - 125

Lab Sample ID: 240-89451-W-7-C MSD

Matrix: Water

Analysis Batch: 308336

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	210		2000	2380		ug/L		109	75 - 125	2	20
Aluminum	ND		2000	2180		ug/L		109	75 - 125	1	20
Cadmium	ND		50.0	57.1		ug/L		114	75 - 125	2	20
Chromium	ND		200	218		ug/L		109	75 - 125	3	20
Silver	ND		50.0	56.7		ug/L		113	75 - 125	5	20
Arsenic	5.6	J	2000	2290		ug/L		114	75 - 125	1	20
Beryllium	ND		50.0	54.3		ug/L		109	75 - 125	2	20
Lead	ND		500	533		ug/L		107	75 - 125	2	20
Calcium	83000		50000	138000		ug/L		110	75 - 125	3	20
Cobalt	ND		500	540		ug/L		108	75 - 125	1	20
Copper	ND		250	277		ug/L		111	75 - 125	4	20
Iron	3500		1000	4590		ug/L		109	75 - 125	2	20
Potassium	2100	J	50000	56700		ug/L		109	75 - 125	3	20
Magnesium	28000		50000	82600		ug/L		108	75 - 125	3	20
Manganese	230		500	799		ug/L		114	75 - 125	3	20
Sodium	10000		50000	65300		ug/L		111	75 - 125	3	20
Nickel	ND		500	552		ug/L		110	75 - 125	1	20
Antimony	ND		500	559		ug/L		112	75 - 125	1	20
Vanadium	ND		500	535		ug/L		107	75 - 125	1	20
Zinc	ND		500	558		ug/L		112	75 - 125	0	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-308170/1-A
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/18/17 14:00	12/20/17 10:59	1
Thallium	ND		1.0	0.20	ug/L		12/18/17 14:00	12/20/17 10:59	1

Lab Sample ID: LCS 240-308170/3-A
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	1000		ug/L		100	80 - 120
Thallium	250	262		ug/L		105	80 - 120

Lab Sample ID: 240-89451-W-7-D MS
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	960		ug/L		96	75 - 125
Thallium	ND		250	254		ug/L		102	75 - 125

Lab Sample ID: 240-89451-W-7-E MSD
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	964		ug/L		96	75 - 125	0	20
Thallium	ND		250	260		ug/L		104	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-308181/1-A
Matrix: Water
Analysis Batch: 308470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/18/17 14:00	12/19/17 19:42	1

Lab Sample ID: LCS 240-308181/2-A
Matrix: Water
Analysis Batch: 308470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.25		ug/L		105	80 - 120

Lab Sample ID: 240-89451-W-7-G MS
Matrix: Water
Analysis Batch: 308470

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 308181

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.12		ug/L		112	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-89451-W-7-H MSD

Matrix: Water

Analysis Batch: 308470

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 308181

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.07		ug/L		107	80 - 120	4	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-308410/1-A

Matrix: Water

Analysis Batch: 308544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00240	J	0.010	0.0020	mg/L		12/19/17 16:00	12/20/17 11:15	1

Lab Sample ID: LCS 240-308410/2-A

Matrix: Water

Analysis Batch: 308544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.609		mg/L		102	59 - 129

Lab Sample ID: 240-89439-E-4-B MS

Matrix: Water

Analysis Batch: 308544

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0033	J B	0.0400	0.0433		mg/L		100	22 - 135

Lab Sample ID: 240-89439-E-4-C MSD

Matrix: Water

Analysis Batch: 308544

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0033	J B	0.0400	0.0408		mg/L		94	22 - 135	6	40

Lab Sample ID: MRL 240-308544/12

Matrix: Water

Analysis Batch: 308544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00900	J	mg/L		90	70 - 130

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

GC/MS VOA

Analysis Batch: 309332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	8260B	
240-89524-2	AMW-21(20171215)	Total/NA	Water	8260B	
240-89524-3	AMW-07(20171215)	Total/NA	Water	8260B	
240-89524-4	AMW-05B(20171215)	Total/NA	Water	8260B	
240-89524-5	TRIP BLANK (AMW-26)	Total/NA	Water	8260B	
240-89524-6	TRIP BLANK (AMW-21)	Total/NA	Water	8260B	
240-89524-7	TRIP BLANK (AMW-07)	Total/NA	Water	8260B	
240-89524-8	TRIP BLANK (AMW-05B)	Total/NA	Water	8260B	
MB 240-309332/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309332/4	Lab Control Sample	Total/NA	Water	8260B	
240-89574-E-20 MS	Matrix Spike	Total/NA	Water	8260B	
240-89574-F-20 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 308680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	3510C	
240-89524-2	AMW-21(20171215)	Total/NA	Water	3510C	
240-89524-3	AMW-07(20171215)	Total/NA	Water	3510C	
240-89524-4	AMW-05B(20171215)	Total/NA	Water	3510C	
MB 240-308680/16-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308680/17-A	Lab Control Sample	Total/NA	Water	3510C	
240-89451-AB-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
240-89451-AL-7-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 308835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	8270C	308680
MB 240-308680/16-A	Method Blank	Total/NA	Water	8270C	308680
LCS 240-308680/17-A	Lab Control Sample	Total/NA	Water	8270C	308680
240-89451-AB-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270C	308680
240-89451-AL-7-A MS	Matrix Spike	Total/NA	Water	8270C	308680

Analysis Batch: 309051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-2	AMW-21(20171215)	Total/NA	Water	8270C	308680
240-89524-3	AMW-07(20171215)	Total/NA	Water	8270C	308680
240-89524-4	AMW-05B(20171215)	Total/NA	Water	8270C	308680

GC VOA

Analysis Batch: 308106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	WI-GRO	
240-89524-2	AMW-21(20171215)	Total/NA	Water	WI-GRO	
240-89524-3	AMW-07(20171215)	Total/NA	Water	WI-GRO	
240-89524-4	AMW-05B(20171215)	Total/NA	Water	WI-GRO	
MB 240-308106/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308106/5	Lab Control Sample	Total/NA	Water	WI-GRO	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

GC VOA (Continued)

Analysis Batch: 308106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 240-308106/28	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-89451-A-7 MS	Matrix Spike	Total/NA	Water	WI-GRO	
240-89451-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 308133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	3510C	
240-89524-2	AMW-21(20171215)	Total/NA	Water	3510C	
240-89524-3	AMW-07(20171215)	Total/NA	Water	3510C	
MB 240-308133/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89451-AJ-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
240-89451-AP-7-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 308394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	WI-DRO	308133
240-89524-2	AMW-21(20171215)	Total/NA	Water	WI-DRO	308133
240-89524-3	AMW-07(20171215)	Total/NA	Water	WI-DRO	308133
MB 240-308133/19-A	Method Blank	Total/NA	Water	WI-DRO	308133
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	WI-DRO	308133
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308133
240-89451-AJ-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	308133
240-89451-AP-7-A MS	Matrix Spike	Total/NA	Water	WI-DRO	308133

Prep Batch: 308637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	3520C	
240-89524-2	AMW-21(20171215)	Total/NA	Water	3520C	
240-89524-3	AMW-07(20171215)	Total/NA	Water	3520C	
MB 240-308637/18-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308637/19-A	Lab Control Sample	Total/NA	Water	3520C	
240-89451-AK-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	
240-89451-AM-7-A MS	Matrix Spike	Total/NA	Water	3520C	

Analysis Batch: 308801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	8082	308637
240-89524-2	AMW-21(20171215)	Total/NA	Water	8082	308637
240-89524-3	AMW-07(20171215)	Total/NA	Water	8082	308637
MB 240-308637/18-A	Method Blank	Total/NA	Water	8082	308637
LCS 240-308637/19-A	Lab Control Sample	Total/NA	Water	8082	308637
240-89451-AK-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	8082	308637
240-89451-AM-7-A MS	Matrix Spike	Total/NA	Water	8082	308637

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

GC Semi VOA (Continued)

Prep Batch: 308849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-4	AMW-05B(20171215)	Total/NA	Water	3510C	
MB 240-308849/13-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89649-AL-3-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
240-89649-AM-3-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 308957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-4	AMW-05B(20171215)	Total/NA	Water	WI-DRO	308849
MB 240-308849/13-A	Method Blank	Total/NA	Water	WI-DRO	308849
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	WI-DRO	308849
LCSD 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308849
240-89649-AL-3-A MSD	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	308849
240-89649-AM-3-A MS	Matrix Spike	Total/NA	Water	WI-DRO	308849

Prep Batch: 309223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-4	AMW-05B(20171215)	Total/NA	Water	3520C	
MB 240-309223/15-A	Method Blank	Total/NA	Water	3520C	
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 309511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-4	AMW-05B(20171215)	Total/NA	Water	8082	309223
MB 240-309223/15-A	Method Blank	Total/NA	Water	8082	309223
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	8082	309223

Metals

Prep Batch: 308170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Dissolved	Water	3005A	
240-89524-2	AMW-21(20171215)	Dissolved	Water	3005A	
240-89524-3	AMW-07(20171215)	Dissolved	Water	3005A	
240-89524-4	AMW-05B(20171215)	Dissolved	Water	3005A	
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-308170/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-308170/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89451-W-7-B MS	Matrix Spike	Dissolved	Water	3005A	
240-89451-W-7-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
240-89451-W-7-D MS	Matrix Spike	Dissolved	Water	3005A	
240-89451-W-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 308181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Dissolved	Water	7470A	
240-89524-2	AMW-21(20171215)	Dissolved	Water	7470A	
240-89524-3	AMW-07(20171215)	Dissolved	Water	7470A	
240-89524-4	AMW-05B(20171215)	Dissolved	Water	7470A	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Metals (Continued)

Prep Batch: 308181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-308181/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-308181/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89451-W-7-G MS	Matrix Spike	Dissolved	Water	7470A	
240-89451-W-7-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 308336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Dissolved	Water	6010B	308170
240-89524-2	AMW-21(20171215)	Dissolved	Water	6010B	308170
240-89524-3	AMW-07(20171215)	Dissolved	Water	6010B	308170
240-89524-4	AMW-05B(20171215)	Dissolved	Water	6010B	308170
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	6010B	308170
LCS 240-308170/2-A	Lab Control Sample	Total Recoverable	Water	6010B	308170
240-89451-W-7-B MS	Matrix Spike	Dissolved	Water	6010B	308170
240-89451-W-7-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010B	308170

Analysis Batch: 308470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Dissolved	Water	7470A	308181
240-89524-2	AMW-21(20171215)	Dissolved	Water	7470A	308181
240-89524-3	AMW-07(20171215)	Dissolved	Water	7470A	308181
240-89524-4	AMW-05B(20171215)	Dissolved	Water	7470A	308181
MB 240-308181/1-A	Method Blank	Total/NA	Water	7470A	308181
LCS 240-308181/2-A	Lab Control Sample	Total/NA	Water	7470A	308181
240-89451-W-7-G MS	Matrix Spike	Dissolved	Water	7470A	308181
240-89451-W-7-H MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	308181

Analysis Batch: 308636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Dissolved	Water	6020A	308170
240-89524-2	AMW-21(20171215)	Dissolved	Water	6020A	308170
240-89524-3	AMW-07(20171215)	Dissolved	Water	6020A	308170
240-89524-4	AMW-05B(20171215)	Dissolved	Water	6020A	308170
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	6020A	308170
LCS 240-308170/3-A	Lab Control Sample	Total Recoverable	Water	6020A	308170
240-89451-W-7-D MS	Matrix Spike	Dissolved	Water	6020A	308170
240-89451-W-7-E MSD	Matrix Spike Duplicate	Dissolved	Water	6020A	308170

General Chemistry

Prep Batch: 308410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	9012A	
240-89524-2	AMW-21(20171215)	Total/NA	Water	9012A	
240-89524-3	AMW-07(20171215)	Total/NA	Water	9012A	
240-89524-4	AMW-05B(20171215)	Total/NA	Water	9012A	
MB 240-308410/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-308410/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89439-E-4-B MS	Matrix Spike	Total/NA	Water	9012A	
240-89439-E-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

General Chemistry (Continued)

Analysis Batch: 308544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89524-1	AMW-26(20171215)	Total/NA	Water	9012A	308410
240-89524-2	AMW-21(20171215)	Total/NA	Water	9012A	308410
240-89524-3	AMW-07(20171215)	Total/NA	Water	9012A	308410
240-89524-4	AMW-05B(20171215)	Total/NA	Water	9012A	308410
MB 240-308410/1-A	Method Blank	Total/NA	Water	9012A	308410
LCS 240-308410/2-A	Lab Control Sample	Total/NA	Water	9012A	308410
MRL 240-308544/12	Lab Control Sample	Total/NA	Water	9012A	
240-89439-E-4-B MS	Matrix Spike	Total/NA	Water	9012A	308410
240-89439-E-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	308410

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-26(20171215)

Date Collected: 12/15/17 08:35

Date Received: 12/16/17 10:00

Lab Sample ID: 240-89524-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 01:32	LRW	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 20:08	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/19/17 00:18	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 15:07	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 00:34	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:53	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:55	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:24	DSH	TAL CAN
Total/NA	Prep	9012A			308410	12/19/17 16:00	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308544	12/20/17 11:31	JESW	TAL CAN

Client Sample ID: AMW-21(20171215)

Date Collected: 12/15/17 09:55

Date Received: 12/16/17 10:00

Lab Sample ID: 240-89524-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 01:54	LRW	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 13:12	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/19/17 01:00	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 15:26	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 01:02	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 18:07	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 13:00	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:26	DSH	TAL CAN
Total/NA	Prep	9012A			308410	12/19/17 16:00	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308544	12/20/17 11:33	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: AMW-07(20171215)

Lab Sample ID: 240-89524-3

Date Collected: 12/15/17 11:35

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 02:16	LRW	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 13:36	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/19/17 01:40	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 15:44	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 01:28	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 18:11	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 13:04	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:28	DSH	TAL CAN
Total/NA	Prep	9012A			308410	12/19/17 16:00	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308544	12/20/17 11:34	JESW	TAL CAN

Client Sample ID: AMW-05B(20171215)

Lab Sample ID: 240-89524-4

Date Collected: 12/15/17 13:15

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 02:38	LRW	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 14:00	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/19/17 02:20	RTR	TAL CAN
Total/NA	Prep	3520C			309223	12/27/17 09:12	WKD	TAL CAN
Total/NA	Analysis	8082		1	309511	12/29/17 07:53	CSC	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 02:49	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 18:16	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 13:08	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:30	DSH	TAL CAN
Total/NA	Prep	9012A			308410	12/19/17 16:00	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308544	12/20/17 11:36	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Client Sample ID: TRIP BLANK (AMW-26)

Lab Sample ID: 240-89524-5

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 03:00	LRW	TAL CAN

Client Sample ID: TRIP BLANK (AMW-21)

Lab Sample ID: 240-89524-6

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 03:22	LRW	TAL CAN

Client Sample ID: TRIP BLANK (AMW-07)

Lab Sample ID: 240-89524-7

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 03:44	LRW	TAL CAN

Client Sample ID: TRIP BLANK (AMW-05B)

Lab Sample ID: 240-89524-8

Date Collected: 12/15/17 00:00

Matrix: Water

Date Received: 12/16/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309332	12/28/17 04:06	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89524-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Chain of Custody Record

Client Information Client Contact: Kristoffer Hinskey Company: ARCADIS U.S., Inc. Address: 28550 Cabot Drive Suite 500 City: Novi State Zip: MI, 48377 Phone: 269-579-5402 Email: kristoffer.hinskey@arcadis-us.com Project Name: Ford TCAP - E200572 Site: ST Paul, MN		Analysis Requested Due Date Requested: TAT Requested (days): Standard 10-day PO #: MN000631.0001.00002 WO #: MN000631.0001.00002 Project #: 24006638 SSOW#:		Carrier Tracking Info: Lab PM: Pohl, Denise Phone: 218-260-7854 E-Mail: denise.pohl@testamericainc.com Job #:																			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260B, WI, GRO		9012A, Cyanide		WI DRO - WI DRO		6010B, 6020A, 7470A		Total Number of Containers	
AMW-26(20171215)		12/15/17		0835		G		Water		Y		N		X		X		X		X		X	
AMW-21(20171215)		12/15/17		0955		G		Water		Y		N		X		X		X		X		X	
AMW-07(20171215)		12/15/17		1135		G		Water		Y		N		X		X		X		X		X	
AMW-05B(20171215)		12/15/17		1315		G		Water		Y		N		X		X		X		X		X	
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Login # : 89524

TestAmerica Canton Sample Receipt Form/Narrative

Canton Facility

Cooler unpacked by:

Client Arcaadis

Site Name _____

Cooler Received on 12/16/17Opened on 12/16/17FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

TestAmerica Cooler # _____ Foam Box _____ Client Cooler _____ Box _____ Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☒ See Multiple Cooler Form

1. Cooler temperature upon receipt

IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No4. Did custody papers accompany the sample(s)? Yes No5. Were the custody papers relinquished & signed in the appropriate place? Yes No6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No7. Did all bottles arrive in good condition (Unbroken)? Yes No8. Could all bottle labels be reconciled with the COC? Yes No9. Were correct bottle(s) used for the test(s) indicated? Yes No10. Sufficient quantity received to perform indicated analyses? Yes No11. Are these work share samples? Yes No

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA13. Were VOAs on the COC? Yes No NA14. Were air bubbles >6 mm in any VOA vials? Yes No NA15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 56134 Yes No16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

Samples processed by: _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

each cooler w/ 1 sample per cooler had 2x40ml
trip blanks not on COC - will log each at end
of login w/ sample ID after each trip blank

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

WI-NC-099

X:\X-Drive Document Control\IOPs\Work Instructions\Word Version Work Instructions\WJ-NC-099H-071615 Cooler Receipt Form_page 2 - Multiple Coolers.doc rls

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
AMW-26(20171215)	240-89524-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-26(20171215)	240-89524-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-26(20171215)	240-89524-M-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-26(20171215)	240-89524-N-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-21(20171215)	240-89524-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-21(20171215)	240-89524-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-21(20171215)	240-89524-M-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-21(20171215)	240-89524-N-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-07(20171215)	240-89524-G-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-07(20171215)	240-89524-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-07(20171215)	240-89524-M-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-07(20171215)	240-89524-N-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-05B(20171215)	240-89524-G-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-05B(20171215)	240-89524-H-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-05B(20171215)	240-89524-M-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-05B(20171215)	240-89524-N-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89649-1

Client Project/Site: Ford TCAP - E200572

For:

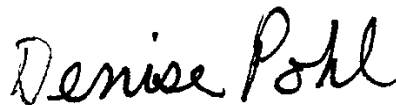
ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

1/4/2018 5:06:32 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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results through

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Job ID: 240-89649-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89649-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/20/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.9° C, 0.9° C, 2.5° C, 3.7° C, 3.9° C, 4.3° C, 4.5° C and 4.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5), AMW-06(20171219) (240-89649-6) and TRIP BLANK (240-89649-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/29/2017.

Bromoform and trans-1,3-Dichloropropene failed the recovery criteria low for the MS/MSD of sample AMW-28(20171218)MS/MSD (240-89649-3) in batch 240-309539.

Sample AMW-06(20171219) (240-89649-6)[33.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Job ID: 240-89649-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/22/2017 and analyzed on 12/26/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Caprolactam failed the recovery criteria low for the MS of sample AMW-28(20171218)MS (240-89649-3) in batch 240-309051.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/22/2017 and 12/27/2017 and analyzed on 12/22/2017, 12/23/2017 and 12/28/2017.

WI Diesel Range Organics (C10-C28) was detected in method blanks MB 240-308849/13-A and MB 240-309197/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) WI-DRO: Reanalysis of the following sample was performed outside of the analytical holding time since the parent sample and MS/MSD results did not confirm. It appears the parent sample was contaminated during the extraction process and the MS sample was not spiked. The re-extracted samples confirm the original MS/MSD results. Both sets of data are reported: AMW-28(20171218) (240-89649-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 12/22/2017.

Method(s) WI-GRO: The Gasoline Range Organics (GRO) concentration reported for the following sample is due to the presence of one discrete peak: AMW-06(20171219) (240-89649-6). WI Gasoline Range Organics (C6-C10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/22/2017 and 12/26/2017 and analyzed on 12/27/2017 and 12/28/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309059.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-28(20171218)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Job ID: 240-89649-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-89649-3[MS]), AMW-28(20171218) (240-89649-3[MSD]), AMW-29(20171218) (240-89649-4) and DUP-03(20171218) (240-89649-5).
Reagents: 3414953, 3154251 and 3361890.

Method(s) 8082: Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-1 0.53mm ID: (LCS 240-309059/18-A). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/21/2017 and analyzed on 12/22/2017.

Iron failed the recovery criteria low for the MS/MSD of sample AMW-28(20171218)MS/MSD (240-89649-3) in batch 240-308900.

Method(s) 200.7 Rev 4.4, 6010B: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/21/2017 and analyzed on 12/22/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/21/2017 and analyzed on 12/22/2017.

Mercury failed the recovery criteria high for the MS of sample AMW-28(20171218)MS (240-89649-3) in batch 240-309040.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-04(20171218) (240-89649-1), AMW-27(20171218) (240-89649-2), AMW-28(20171218) (240-89649-3), AMW-29(20171218) (240-89649-4), DUP-03(20171218) (240-89649-5) and AMW-06(20171219) (240-89649-6) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 12/21/2017 and 12/29/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89649-1	AMW-04(20171218)	Water	12/18/17 09:20	12/20/17 10:30
240-89649-2	AMW-27(20171218)	Water	12/18/17 11:10	12/20/17 10:30
240-89649-3	AMW-28(20171218)	Water	12/18/17 16:10	12/20/17 10:30
240-89649-4	AMW-29(20171218)	Water	12/18/17 14:30	12/20/17 10:30
240-89649-5	DUP-03(20171218)	Water	12/18/17 00:00	12/20/17 10:30
240-89649-6	AMW-06(20171219)	Water	12/19/17 12:40	12/20/17 10:30
240-89649-7	TRIP BLANK	Water	12/18/17 00:00	12/20/17 10:30

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.060	J B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	75	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	100000		5000	310	ug/L	1		6010B	Dissolved
Iron	4300		100	26	ug/L	1		6010B	Dissolved
Potassium	4700	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	38000		5000	780	ug/L	1		6010B	Dissolved
Manganese	66		15	2.1	ug/L	1		6010B	Dissolved
Sodium	15000		5000	560	ug/L	1		6010B	Dissolved

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.33	J	1.0	0.30	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.054	J B	0.096	0.019	mg/L	1		WI-DRO	Total/NA
Barium	48	J	200	1.3	ug/L	1		6010B	Dissolved
Chromium	0.69	J	10	0.63	ug/L	1		6010B	Dissolved
Calcium	53000		5000	310	ug/L	1		6010B	Dissolved
Iron	1500		100	26	ug/L	1		6010B	Dissolved
Potassium	3200	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	19000		5000	780	ug/L	1		6010B	Dissolved
Manganese	150		15	2.1	ug/L	1		6010B	Dissolved
Sodium	38000		5000	560	ug/L	1		6010B	Dissolved
Nickel	2.3	J	40	2.2	ug/L	1		6010B	Dissolved

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
WI Diesel Range Organics (C10-C28)	0.17	H B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
- RE									
Barium	41	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	54000		5000	310	ug/L	1		6010B	Dissolved
Iron	4700		100	26	ug/L	1		6010B	Dissolved
Potassium	2900	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	20000		5000	780	ug/L	1		6010B	Dissolved
Manganese	240		15	2.1	ug/L	1		6010B	Dissolved
Sodium	9900		5000	560	ug/L	1		6010B	Dissolved
Nickel	6.0	J	40	2.2	ug/L	1		6010B	Dissolved

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.8	ug/L	1		8260B	Total/NA
Trichloroethene	16		1.0	0.33	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.053	J B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	18	J	200	1.3	ug/L	1		6010B	Dissolved
Aluminum	39000		200	47	ug/L	1		6010B	Dissolved
Cadmium	0.77	J	5.0	0.20	ug/L	1		6010B	Dissolved
Chromium	4.0	J	10	0.63	ug/L	1		6010B	Dissolved
Beryllium	3.0	J	5.0	0.60	ug/L	1		6010B	Dissolved
Lead	4.9		3.0	2.8	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218) (Continued)

Lab Sample ID: 240-89649-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	48000		5000	310	ug/L	1		6010B	Dissolved
Cobalt	90		7.0	0.75	ug/L	1		6010B	Dissolved
Copper	90		25	3.5	ug/L	1		6010B	Dissolved
Iron	1000		100	26	ug/L	1		6010B	Dissolved
Potassium	4800	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	24000		5000	780	ug/L	1		6010B	Dissolved
Manganese	900		15	2.1	ug/L	1		6010B	Dissolved
Sodium	8200		5000	560	ug/L	1		6010B	Dissolved
Nickel	390		40	2.2	ug/L	1		6010B	Dissolved
Zinc	140		50	9.7	ug/L	1		6010B	Dissolved
Selenium	1.7	J	5.0	0.89	ug/L	1		6020A	Dissolved
Thallium	1.8		1.0	0.20	ug/L	1		6020A	Dissolved

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.8	ug/L	1		8260B	Total/NA
Trichloroethene	16		1.0	0.33	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.046	J B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	18	J	200	1.3	ug/L	1		6010B	Dissolved
Aluminum	41000		200	47	ug/L	1		6010B	Dissolved
Cadmium	0.61	J	5.0	0.20	ug/L	1		6010B	Dissolved
Chromium	3.2	J	10	0.63	ug/L	1		6010B	Dissolved
Beryllium	3.1	J	5.0	0.60	ug/L	1		6010B	Dissolved
Lead	5.4		3.0	2.8	ug/L	1		6010B	Dissolved
Calcium	50000		5000	310	ug/L	1		6010B	Dissolved
Cobalt	89		7.0	0.75	ug/L	1		6010B	Dissolved
Copper	85		25	3.5	ug/L	1		6010B	Dissolved
Iron	940		100	26	ug/L	1		6010B	Dissolved
Potassium	4900	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	24000		5000	780	ug/L	1		6010B	Dissolved
Manganese	900		15	2.1	ug/L	1		6010B	Dissolved
Sodium	7900		5000	560	ug/L	1		6010B	Dissolved
Nickel	390		40	2.2	ug/L	1		6010B	Dissolved
Zinc	130		50	9.7	ug/L	1		6010B	Dissolved
Selenium	1.6	J	5.0	0.89	ug/L	1		6020A	Dissolved
Thallium	1.7		1.0	0.20	ug/L	1		6020A	Dissolved

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	640		33	10	ug/L	33.33		8260B	Total/NA
Methylene Chloride	18	J	33	18	ug/L	33.33		8260B	Total/NA
Trichloroethene	120		33	11	ug/L	33.33		8260B	Total/NA
WI Gasoline Range Organics (C6-C10)	250		100	40	ug/L	1		WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	0.23	B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	53	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	55000		5000	310	ug/L	1		6010B	Dissolved
Iron	280		100	26	ug/L	1		6010B	Dissolved
Potassium	5600		5000	560	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219) (Continued)

Lab Sample ID: 240-89649-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	37000		5000	780	ug/L	1		6010B	Dissolved
Manganese	75		15	2.1	ug/L	1		6010B	Dissolved
Sodium	20000		5000	560	ug/L	1		6010B	Dissolved

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89649-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.62	J	1.0	0.53	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Date Collected: 12/18/17 09:20

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 12:15	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 12:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 12:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 12:15	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 12:15	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 12:15	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 12:15	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 12:15	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 12:15	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 12:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 12:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 12:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 12:15	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 12:15	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 12:15	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 12:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 12:15	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 12:15	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 12:15	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 12:15	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 12:15	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 12:15	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 12:15	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 12:15	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 12:15	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 12:15	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 12:15	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 12:15	1
Acetone	ND		10	1.8	ug/L			12/29/17 12:15	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 12:15	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 12:15	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 12:15	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 12:15	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 12:15	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 12:15	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 12:15	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 12:15	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 12:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 12:15	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 12:15	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 12:15	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 12:15	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 12:15	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 12:15	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 12:15	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 12:15	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 12:15	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 12:15	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 12:15	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Date Collected: 12/18/17 09:20

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 12:15	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 12:15	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 12:15	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 12:15	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 12:15	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 12:15	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 12:15	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 12:15	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 12:15	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 12:15	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 12:15	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 12:15	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 12:15	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 12:15	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 12:15	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 12:15	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 12:15	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 12:15	1
Trichloroethene	ND		1.0	0.33	ug/L			12/29/17 12:15	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 12:15	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 12:15	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 12:15	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 138		12/29/17 12:15	1
4-Bromofluorobenzene (Surr)	98		69 - 120		12/29/17 12:15	1
Toluene-d8 (Surr)	94		73 - 120		12/29/17 12:15	1
Dibromofluoromethane (Surr)	99		69 - 124		12/29/17 12:15	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 16:49	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 16:49	1
Acetophenone	ND		0.95	0.32	ug/L		12/22/17 09:09	12/26/17 16:49	1
Anthracene	ND		0.19	0.084	ug/L		12/22/17 09:09	12/26/17 16:49	1
Atrazine	ND		1.9	0.32	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/22/17 09:09	12/26/17 16:49	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 16:49	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 16:49	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/22/17 09:09	12/26/17 16:49	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 16:49	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 16:49	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 16:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Date Collected: 12/18/17 09:20

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/22/17 09:09	12/26/17 16:49	1
Carbazole	ND		0.95	0.27	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 16:49	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/22/17 09:09	12/26/17 16:49	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/22/17 09:09	12/26/17 16:49	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 16:49	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/22/17 09:09	12/26/17 16:49	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 16:49	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 16:49	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 16:49	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 16:49	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 16:49	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 16:49	1
Fluoranthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 16:49	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 16:49	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/22/17 09:09	12/26/17 16:49	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 16:49	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/22/17 09:09	12/26/17 16:49	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/22/17 09:09	12/26/17 16:49	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/22/17 09:09	12/26/17 16:49	1
Isophorone	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/22/17 09:09	12/26/17 16:49	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 16:49	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 16:49	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/22/17 09:09	12/26/17 16:49	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 16:49	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 16:49	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 16:49	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/22/17 09:09	12/26/17 16:49	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 16:49	1
Phenanthrene	ND		0.19	0.059	ug/L		12/22/17 09:09	12/26/17 16:49	1
Phenol	ND		0.95	0.57	ug/L		12/22/17 09:09	12/26/17 16:49	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 16:49	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/22/17 09:09	12/26/17 16:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Date Collected: 12/18/17 09:20

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		38 - 120	12/22/17 09:09	12/26/17 16:49	1
2-Fluorophenol (Surr)	44		10 - 120	12/22/17 09:09	12/26/17 16:49	1
2,4,6-Tribromophenol (Surr)	76		28 - 120	12/22/17 09:09	12/26/17 16:49	1
Nitrobenzene-d5 (Surr)	70		32 - 120	12/22/17 09:09	12/26/17 16:49	1
Phenol-d5 (Surr)	27		10 - 120	12/22/17 09:09	12/26/17 16:49	1
Terphenyl-d14 (Surr)	89		23 - 127	12/22/17 09:09	12/26/17 16:49	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/22/17 12:17	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1221	ND		0.19	0.086	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1232	ND		0.19	0.067	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1242	ND		0.19	0.057	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1248	ND		0.19	0.048	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1254	ND		0.19	0.029	ug/L	-	12/22/17 10:06	12/27/17 11:28	1
Aroclor-1260	ND		0.19	0.038	ug/L	-	12/22/17 10:06	12/27/17 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		10 - 120	12/22/17 10:06	12/27/17 11:28	1
Tetrachloro-m-xylene	59		22 - 120	12/22/17 10:06	12/27/17 11:28	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.060	J B	0.095	0.019	mg/L	-	12/22/17 08:56	12/22/17 22:45	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	75	J	200	1.3	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Aluminum	ND		200	47	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Cadmium	ND		5.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Chromium	ND		10	0.63	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Silver	ND		10	0.62	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Arsenic	ND		10	4.1	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Beryllium	ND		5.0	0.60	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Lead	ND		3.0	2.8	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Calcium	100000		5000	310	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Cobalt	ND		7.0	0.75	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Copper	ND		25	3.5	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Iron	4300		100	26	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Potassium	4700	J	5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Magnesium	38000		5000	780	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Manganese	66		15	2.1	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Sodium	15000		5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Nickel	ND		40	2.2	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Antimony	ND		10	7.5	ug/L	-	12/21/17 14:00	12/22/17 18:36	1
Vanadium	ND		10	5.6	ug/L	-	12/21/17 14:00	12/22/17 18:36	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Lab Sample ID: 240-89649-1

Date Collected: 12/18/17 09:20

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	—	12/21/17 14:00	12/22/17 18:36	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	—	12/21/17 14:00	12/22/17 12:06	1
Thallium	ND		1.0	0.20	ug/L	—	12/21/17 14:00	12/22/17 12:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	—	12/21/17 14:00	12/22/17 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	—	12/21/17 11:15	12/21/17 13:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Date Collected: 12/18/17 11:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 18:19	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 18:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 18:19	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 18:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 18:19	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 18:19	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 18:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 18:19	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 18:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 18:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 18:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 18:19	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 18:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 18:19	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 18:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 18:19	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 18:19	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 18:19	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 18:19	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 18:19	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 18:19	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 18:19	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 18:19	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 18:19	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 18:19	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 18:19	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 18:19	1
Acetone	ND		10	1.8	ug/L			12/29/17 18:19	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 18:19	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 18:19	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 18:19	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 18:19	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 18:19	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 18:19	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 18:19	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 18:19	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 18:19	1
cis-1,2-Dichloroethene	0.33	J	1.0	0.30	ug/L			12/29/17 18:19	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 18:19	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 18:19	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 18:19	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 18:19	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 18:19	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 18:19	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 18:19	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 18:19	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 18:19	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 18:19	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Date Collected: 12/18/17 11:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 18:19	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 18:19	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 18:19	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 18:19	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 18:19	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 18:19	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 18:19	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 18:19	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 18:19	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 18:19	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 18:19	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 18:19	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 18:19	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 18:19	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 18:19	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 18:19	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 18:19	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 18:19	1
Trichloroethene	ND		1.0	0.33	ug/L			12/29/17 18:19	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 18:19	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 18:19	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 18:19	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		61 - 138		12/29/17 18:19	1
4-Bromofluorobenzene (Surr)	105		69 - 120		12/29/17 18:19	1
Toluene-d8 (Surr)	99		73 - 120		12/29/17 18:19	1
Dibromofluoromethane (Surr)	106		69 - 124		12/29/17 18:19	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 17:13	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 17:13	1
Acetophenone	ND		0.96	0.33	ug/L		12/22/17 09:09	12/26/17 17:13	1
Anthracene	ND		0.19	0.085	ug/L		12/22/17 09:09	12/26/17 17:13	1
Atrazine	ND		1.9	0.33	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/22/17 09:09	12/26/17 17:13	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 17:13	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 17:13	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/22/17 09:09	12/26/17 17:13	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/22/17 09:09	12/26/17 17:13	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/22/17 09:09	12/26/17 17:13	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 17:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Date Collected: 12/18/17 11:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/22/17 09:09	12/26/17 17:13	1
Carbazole	ND		0.96	0.27	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 17:13	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/22/17 09:09	12/26/17 17:13	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/22/17 09:09	12/26/17 17:13	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 17:13	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/22/17 09:09	12/26/17 17:13	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 17:13	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 17:13	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 17:13	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 17:13	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 17:13	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 17:13	1
Fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 17:13	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 17:13	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/22/17 09:09	12/26/17 17:13	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/22/17 09:09	12/26/17 17:13	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/22/17 09:09	12/26/17 17:13	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/22/17 09:09	12/26/17 17:13	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 17:13	1
Isophorone	ND		0.96	0.26	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/22/17 09:09	12/26/17 17:13	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 17:13	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 17:13	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/22/17 09:09	12/26/17 17:13	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 17:13	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 17:13	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/22/17 09:09	12/26/17 17:13	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/22/17 09:09	12/26/17 17:13	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 17:13	1
Phenanthrene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 17:13	1
Phenol	ND		0.96	0.58	ug/L		12/22/17 09:09	12/26/17 17:13	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 17:13	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/22/17 09:09	12/26/17 17:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Date Collected: 12/18/17 11:10

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	98		38 - 120	12/22/17 09:09	12/26/17 17:13	1
2-Fluorophenol (Surr)	57		10 - 120	12/22/17 09:09	12/26/17 17:13	1
2,4,6-Tribromophenol (Surr)	63		28 - 120	12/22/17 09:09	12/26/17 17:13	1
Nitrobenzene-d5 (Surr)	85		32 - 120	12/22/17 09:09	12/26/17 17:13	1
Phenol-d5 (Surr)	38		10 - 120	12/22/17 09:09	12/26/17 17:13	1
Terphenyl-d14 (Surr)	113		23 - 127	12/22/17 09:09	12/26/17 17:13	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 12:58	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/22/17 10:06	12/27/17 11:47	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/22/17 10:06	12/27/17 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		10 - 120	12/22/17 10:06	12/27/17 11:47	1
Tetrachloro-m-xylene	63		22 - 120	12/22/17 10:06	12/27/17 11:47	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.054	J B	0.096	0.019	mg/L		12/22/17 08:56	12/22/17 23:12	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	48	J	200	1.3	ug/L		12/21/17 14:00	12/22/17 18:40	1
Aluminum	ND		200	47	ug/L		12/21/17 14:00	12/22/17 18:40	1
Cadmium	ND		5.0	0.20	ug/L		12/21/17 14:00	12/22/17 18:40	1
Chromium	0.69	J	10	0.63	ug/L		12/21/17 14:00	12/22/17 18:40	1
Silver	ND		10	0.62	ug/L		12/21/17 14:00	12/22/17 18:40	1
Arsenic	ND		10	4.1	ug/L		12/21/17 14:00	12/22/17 18:40	1
Beryllium	ND		5.0	0.60	ug/L		12/21/17 14:00	12/22/17 18:40	1
Lead	ND		3.0	2.8	ug/L		12/21/17 14:00	12/22/17 18:40	1
Calcium	53000		5000	310	ug/L		12/21/17 14:00	12/22/17 18:40	1
Cobalt	ND		7.0	0.75	ug/L		12/21/17 14:00	12/22/17 18:40	1
Copper	ND		25	3.5	ug/L		12/21/17 14:00	12/22/17 18:40	1
Iron	1500		100	26	ug/L		12/21/17 14:00	12/22/17 18:40	1
Potassium	3200	J	5000	560	ug/L		12/21/17 14:00	12/22/17 18:40	1
Magnesium	19000		5000	780	ug/L		12/21/17 14:00	12/22/17 18:40	1
Manganese	150		15	2.1	ug/L		12/21/17 14:00	12/22/17 18:40	1
Sodium	38000		5000	560	ug/L		12/21/17 14:00	12/22/17 18:40	1
Nickel	2.3	J	40	2.2	ug/L		12/21/17 14:00	12/22/17 18:40	1
Antimony	ND		10	7.5	ug/L		12/21/17 14:00	12/22/17 18:40	1
Vanadium	ND		10	5.6	ug/L		12/21/17 14:00	12/22/17 18:40	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-27(20171218)

Lab Sample ID: 240-89649-2

Date Collected: 12/18/17 11:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/21/17 14:00	12/22/17 18:40	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/21/17 14:00	12/22/17 12:10	1
Thallium	ND		1.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 12:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/21/17 14:00	12/22/17 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/21/17 11:15	12/21/17 13:41	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 13:01	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 13:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 13:01	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 13:01	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 13:01	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 13:01	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 13:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 13:01	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 13:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 13:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 13:01	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 13:01	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 13:01	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 13:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:01	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:01	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 13:01	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 13:01	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 13:01	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 13:01	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 13:01	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 13:01	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 13:01	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 13:01	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 13:01	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 13:01	1
Acetone	ND		10	1.8	ug/L			12/29/17 13:01	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 13:01	1
Bromoform	ND	F1	1.0	0.43	ug/L			12/29/17 13:01	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 13:01	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 13:01	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 13:01	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:01	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 13:01	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 13:01	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 13:01	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 13:01	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 13:01	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 13:01	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 13:01	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 13:01	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 13:01	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:01	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 13:01	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 13:01	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:01	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 13:01	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 13:01	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 13:01	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:01	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:01	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 13:01	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 13:01	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 13:01	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 13:01	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 13:01	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 13:01	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 13:01	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 13:01	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:01	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 13:01	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 13:01	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 13:01	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 13:01	1
trans-1,3-Dichloropropene	ND	F1	1.0	0.31	ug/L			12/29/17 13:01	1
Trichloroethene	ND		1.0	0.33	ug/L			12/29/17 13:01	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:01	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 13:01	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 13:01	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		61 - 138		12/29/17 13:01	1
4-Bromofluorobenzene (Surr)	101		69 - 120		12/29/17 13:01	1
Toluene-d8 (Surr)	96		73 - 120		12/29/17 13:01	1
Dibromofluoromethane (Surr)	104		69 - 124		12/29/17 13:01	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 15:36	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 15:36	1
Acetophenone	ND		0.95	0.32	ug/L		12/22/17 09:09	12/26/17 15:36	1
Anthracene	ND		0.19	0.084	ug/L		12/22/17 09:09	12/26/17 15:36	1
Atrazine	ND		1.9	0.32	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/22/17 09:09	12/26/17 15:36	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 15:36	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 15:36	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/22/17 09:09	12/26/17 15:36	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 15:36	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 15:36	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 15:36	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	F1	4.8	0.19	ug/L		12/22/17 09:09	12/26/17 15:36	1
Carbazole	ND		0.95	0.27	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 15:36	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/22/17 09:09	12/26/17 15:36	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/22/17 09:09	12/26/17 15:36	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 15:36	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/22/17 09:09	12/26/17 15:36	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 15:36	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 15:36	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 15:36	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 15:36	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 15:36	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 15:36	1
Fluoranthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 15:36	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 15:36	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/22/17 09:09	12/26/17 15:36	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 15:36	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/22/17 09:09	12/26/17 15:36	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/22/17 09:09	12/26/17 15:36	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/22/17 09:09	12/26/17 15:36	1
Isophorone	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/22/17 09:09	12/26/17 15:36	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 15:36	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 15:36	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/22/17 09:09	12/26/17 15:36	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 15:36	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 15:36	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 15:36	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/22/17 09:09	12/26/17 15:36	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 15:36	1
Phenanthrene	ND		0.19	0.059	ug/L		12/22/17 09:09	12/26/17 15:36	1
Phenol	ND		0.95	0.57	ug/L		12/22/17 09:09	12/26/17 15:36	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 15:36	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/22/17 09:09	12/26/17 15:36	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		38 - 120	12/22/17 09:09	12/26/17 15:36	1
2-Fluorophenol (Surr)	38		10 - 120	12/22/17 09:09	12/26/17 15:36	1
2,4,6-Tribromophenol (Surr)	36		28 - 120	12/22/17 09:09	12/26/17 15:36	1
Nitrobenzene-d5 (Surr)	56		32 - 120	12/22/17 09:09	12/26/17 15:36	1
Phenol-d5 (Surr)	23		10 - 120	12/22/17 09:09	12/26/17 15:36	1
Terphenyl-d14 (Surr)	88		23 - 127	12/22/17 09:09	12/26/17 15:36	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 13:39	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/22/17 10:06	12/27/17 12:07	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/22/17 10:06	12/27/17 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	24		10 - 120	12/22/17 10:06	12/27/17 12:07	1
Tetrachloro-m-xylene	63		22 - 120	12/22/17 10:06	12/27/17 12:07	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.095	0.019	mg/L		12/22/17 08:56	12/22/17 23:39	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.17	H B	0.095	0.019	mg/L		12/27/17 07:25	12/28/17 18:49	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	41	J	200	1.3	ug/L		12/21/17 14:00	12/22/17 16:49	1
Aluminum	ND		200	47	ug/L		12/21/17 14:00	12/22/17 16:49	1
Cadmium	ND		5.0	0.20	ug/L		12/21/17 14:00	12/22/17 16:49	1
Chromium	ND		10	0.63	ug/L		12/21/17 14:00	12/22/17 16:49	1
Silver	ND		10	0.62	ug/L		12/21/17 14:00	12/22/17 16:49	1
Arsenic	ND		10	4.1	ug/L		12/21/17 14:00	12/22/17 16:49	1
Beryllium	ND		5.0	0.60	ug/L		12/21/17 14:00	12/22/17 16:49	1
Lead	ND		3.0	2.8	ug/L		12/21/17 14:00	12/22/17 16:49	1
Calcium	54000		5000	310	ug/L		12/21/17 14:00	12/22/17 16:49	1
Cobalt	ND		7.0	0.75	ug/L		12/21/17 14:00	12/22/17 16:49	1
Copper	ND		25	3.5	ug/L		12/21/17 14:00	12/22/17 16:49	1
Iron	4700		100	26	ug/L		12/21/17 14:00	12/22/17 16:49	1
Potassium	2900	J	5000	560	ug/L		12/21/17 14:00	12/22/17 16:49	1
Magnesium	20000		5000	780	ug/L		12/21/17 14:00	12/22/17 16:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	240		15	2.1	ug/L		12/21/17 14:00	12/22/17 16:49	1
Sodium	9900		5000	560	ug/L		12/21/17 14:00	12/22/17 16:49	1
Nickel	6.0	J	40	2.2	ug/L		12/21/17 14:00	12/22/17 16:49	1
Antimony	ND		10	7.5	ug/L		12/21/17 14:00	12/22/17 16:49	1
Vanadium	ND		10	5.6	ug/L		12/21/17 14:00	12/22/17 16:49	1
Zinc	ND		50	9.7	ug/L		12/21/17 14:00	12/22/17 16:49	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/21/17 14:00	12/22/17 11:26	1
Thallium	ND		1.0	0.20	ug/L		12/21/17 14:00	12/22/17 11:26	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1	0.20	0.13	ug/L		12/21/17 14:00	12/22/17 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		12/29/17 11:36	12/29/17 12:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 13:23	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 13:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 13:23	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 13:23	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 13:23	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 13:23	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 13:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 13:23	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 13:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 13:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 13:23	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 13:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 13:23	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 13:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:23	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:23	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 13:23	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 13:23	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 13:23	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 13:23	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 13:23	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 13:23	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 13:23	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 13:23	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 13:23	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 13:23	1
Acetone	1.8	J	10	1.8	ug/L			12/29/17 13:23	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 13:23	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 13:23	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 13:23	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 13:23	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 13:23	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:23	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 13:23	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 13:23	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 13:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 13:23	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 13:23	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 13:23	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 13:23	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 13:23	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 13:23	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:23	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 13:23	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 13:23	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:23	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 13:23	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 13:23	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 13:23	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:23	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:23	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 13:23	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 13:23	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 13:23	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 13:23	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 13:23	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 13:23	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 13:23	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 13:23	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 13:23	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 13:23	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 13:23	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 13:23	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 13:23	1
Trichloroethene	16		1.0	0.33	ug/L			12/29/17 13:23	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:23	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 13:23	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 13:23	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 138		12/29/17 13:23	1
4-Bromofluorobenzene (Surr)	99		69 - 120		12/29/17 13:23	1
Toluene-d8 (Surr)	95		73 - 120		12/29/17 13:23	1
Dibromofluoromethane (Surr)	98		69 - 124		12/29/17 13:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 18:25	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 18:25	1
Acetophenone	ND		0.95	0.32	ug/L		12/22/17 09:09	12/26/17 18:25	1
Anthracene	ND		0.19	0.084	ug/L		12/22/17 09:09	12/26/17 18:25	1
Atrazine	ND		1.9	0.32	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/22/17 09:09	12/26/17 18:25	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 18:25	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 18:25	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/22/17 09:09	12/26/17 18:25	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 18:25	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 18:25	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 18:25	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/22/17 09:09	12/26/17 18:25	1
Carbazole	ND		0.95	0.27	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 18:25	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/22/17 09:09	12/26/17 18:25	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/22/17 09:09	12/26/17 18:25	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 18:25	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/22/17 09:09	12/26/17 18:25	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 18:25	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 18:25	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 18:25	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 18:25	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 18:25	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 18:25	1
Fluoranthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 18:25	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 18:25	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/22/17 09:09	12/26/17 18:25	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 18:25	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/22/17 09:09	12/26/17 18:25	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/22/17 09:09	12/26/17 18:25	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/22/17 09:09	12/26/17 18:25	1
Isophorone	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/22/17 09:09	12/26/17 18:25	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:25	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 18:25	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/22/17 09:09	12/26/17 18:25	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 18:25	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 18:25	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 18:25	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/22/17 09:09	12/26/17 18:25	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 18:25	1
Phenanthrene	ND		0.19	0.059	ug/L		12/22/17 09:09	12/26/17 18:25	1
Phenol	ND		0.95	0.57	ug/L		12/22/17 09:09	12/26/17 18:25	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 18:25	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/22/17 09:09	12/26/17 18:25	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		38 - 120	12/22/17 09:09	12/26/17 18:25	1
2-Fluorophenol (Surr)	44		10 - 120	12/22/17 09:09	12/26/17 18:25	1
2,4,6-Tribromophenol (Surr)	35		28 - 120	12/22/17 09:09	12/26/17 18:25	1
Nitrobenzene-d5 (Surr)	78		32 - 120	12/22/17 09:09	12/26/17 18:25	1
Phenol-d5 (Surr)	27		10 - 120	12/22/17 09:09	12/26/17 18:25	1
Terphenyl-d14 (Surr)	94		23 - 127	12/22/17 09:09	12/26/17 18:25	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/22/17 15:43	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1221	ND		0.19	0.086	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1232	ND		0.19	0.067	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1242	ND		0.19	0.057	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1248	ND		0.19	0.048	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1254	ND		0.19	0.029	ug/L	-	12/22/17 10:06	12/27/17 13:05	1
Aroclor-1260	ND		0.19	0.038	ug/L	-	12/22/17 10:06	12/27/17 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	33		10 - 120	12/22/17 10:06	12/27/17 13:05	1
Tetrachloro-m-xylene	59		22 - 120	12/22/17 10:06	12/27/17 13:05	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.053	J B	0.095	0.019	mg/L	-	12/22/17 08:56	12/23/17 01:00	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	18	J	200	1.3	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Aluminum	39000		200	47	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Cadmium	0.77	J	5.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Chromium	4.0	J	10	0.63	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Silver	ND		10	0.62	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Arsenic	ND		10	4.1	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Beryllium	3.0	J	5.0	0.60	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Lead	4.9		3.0	2.8	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Calcium	48000		5000	310	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Cobalt	90		7.0	0.75	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Copper	90		25	3.5	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Iron	1000		100	26	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Potassium	4800	J	5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Magnesium	24000		5000	780	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Manganese	900		15	2.1	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Sodium	8200		5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Nickel	390		40	2.2	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Antimony	ND		10	7.5	ug/L	-	12/21/17 14:00	12/22/17 18:45	1
Vanadium	ND		10	5.6	ug/L	-	12/21/17 14:00	12/22/17 18:45	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	140		50	9.7	ug/L	-	12/21/17 14:00	12/22/17 18:45	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.7	J	5.0	0.89	ug/L	-	12/21/17 14:00	12/22/17 12:15	1
Thallium	1.8		1.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 12:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/21/17 14:00	12/22/17 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/21/17 11:15	12/21/17 13:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 13:46	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 13:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 13:46	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 13:46	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 13:46	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 13:46	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 13:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 13:46	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 13:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 13:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 13:46	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 13:46	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 13:46	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 13:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 13:46	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:46	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 13:46	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 13:46	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 13:46	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 13:46	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 13:46	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 13:46	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 13:46	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 13:46	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 13:46	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 13:46	1
Acetone	1.8	J	10	1.8	ug/L			12/29/17 13:46	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 13:46	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 13:46	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 13:46	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 13:46	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 13:46	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 13:46	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 13:46	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 13:46	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 13:46	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 13:46	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 13:46	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 13:46	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 13:46	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 13:46	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 13:46	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:46	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 13:46	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 13:46	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:46	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 13:46	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 13:46	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 13:46	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:46	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 13:46	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 13:46	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 13:46	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 13:46	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 13:46	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 13:46	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 13:46	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 13:46	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 13:46	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 13:46	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 13:46	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 13:46	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 13:46	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 13:46	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 13:46	1
Trichloroethene	16		1.0	0.33	ug/L			12/29/17 13:46	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 13:46	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 13:46	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 13:46	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 138		12/29/17 13:46	1
4-Bromofluorobenzene (Surr)	101		69 - 120		12/29/17 13:46	1
Toluene-d8 (Surr)	98		73 - 120		12/29/17 13:46	1
Dibromofluoromethane (Surr)	105		69 - 124		12/29/17 13:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 18:49	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 18:49	1
Acetophenone	ND		0.96	0.33	ug/L		12/22/17 09:09	12/26/17 18:49	1
Anthracene	ND		0.19	0.085	ug/L		12/22/17 09:09	12/26/17 18:49	1
Atrazine	ND		1.9	0.33	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/22/17 09:09	12/26/17 18:49	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 18:49	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 18:49	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/22/17 09:09	12/26/17 18:49	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/22/17 09:09	12/26/17 18:49	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/22/17 09:09	12/26/17 18:49	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 18:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/22/17 09:09	12/26/17 18:49	1
Carbazole	ND		0.96	0.27	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 18:49	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/22/17 09:09	12/26/17 18:49	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/22/17 09:09	12/26/17 18:49	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 18:49	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/22/17 09:09	12/26/17 18:49	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 18:49	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 18:49	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 18:49	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 18:49	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 18:49	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 18:49	1
Fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 18:49	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 18:49	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/22/17 09:09	12/26/17 18:49	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/22/17 09:09	12/26/17 18:49	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/22/17 09:09	12/26/17 18:49	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/22/17 09:09	12/26/17 18:49	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 18:49	1
Isophorone	ND		0.96	0.26	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/22/17 09:09	12/26/17 18:49	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 18:49	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 18:49	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/22/17 09:09	12/26/17 18:49	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 18:49	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 18:49	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/22/17 09:09	12/26/17 18:49	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/22/17 09:09	12/26/17 18:49	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 18:49	1
Phenanthrene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 18:49	1
Phenol	ND		0.96	0.58	ug/L		12/22/17 09:09	12/26/17 18:49	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 18:49	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/22/17 09:09	12/26/17 18:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		38 - 120	12/22/17 09:09	12/26/17 18:49	1
2-Fluorophenol (Surr)	49		10 - 120	12/22/17 09:09	12/26/17 18:49	1
2,4,6-Tribromophenol (Surr)	38		28 - 120	12/22/17 09:09	12/26/17 18:49	1
Nitrobenzene-d5 (Surr)	78		32 - 120	12/22/17 09:09	12/26/17 18:49	1
Phenol-d5 (Surr)	31		10 - 120	12/22/17 09:09	12/26/17 18:49	1
Terphenyl-d14 (Surr)	96		23 - 127	12/22/17 09:09	12/26/17 18:49	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/22/17 16:24	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.049	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1221	ND		0.20	0.088	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1232	ND		0.20	0.069	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1242	ND		0.20	0.059	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1248	ND		0.20	0.049	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1254	ND		0.20	0.029	ug/L	-	12/22/17 10:06	12/27/17 14:25	1
Aroclor-1260	ND		0.20	0.039	ug/L	-	12/22/17 10:06	12/27/17 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		10 - 120	12/22/17 10:06	12/27/17 14:25	1
Tetrachloro-m-xylene	60		22 - 120	12/22/17 10:06	12/27/17 14:25	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.046	J B	0.095	0.019	mg/L	-	12/22/17 08:56	12/23/17 01:28	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	18	J	200	1.3	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Aluminum	41000		200	47	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Cadmium	0.61	J	5.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Chromium	3.2	J	10	0.63	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Silver	ND		10	0.62	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Arsenic	ND		10	4.1	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Beryllium	3.1	J	5.0	0.60	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Lead	5.4		3.0	2.8	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Calcium	50000		5000	310	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Cobalt	89		7.0	0.75	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Copper	85		25	3.5	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Iron	940		100	26	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Potassium	4900	J	5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Magnesium	24000		5000	780	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Manganese	900		15	2.1	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Sodium	7900		5000	560	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Nickel	390		40	2.2	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Antimony	ND		10	7.5	ug/L	-	12/21/17 14:00	12/22/17 18:50	1
Vanadium	ND		10	5.6	ug/L	-	12/21/17 14:00	12/22/17 18:50	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	130		50	9.7	ug/L	-	12/21/17 14:00	12/22/17 18:50	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.6	J	5.0	0.89	ug/L	-	12/21/17 14:00	12/22/17 12:19	1
Thallium	1.7		1.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 12:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/21/17 14:00	12/22/17 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/21/17 11:15	12/21/17 13:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		33	15	ug/L			12/29/17 14:08	33.33
1,1,1-Trichloroethane	ND		33	7.7	ug/L			12/29/17 14:08	33.33
1,1,2,2-Tetrachloroethane	ND		33	11	ug/L			12/29/17 14:08	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33	14	ug/L			12/29/17 14:08	33.33
1,1,2-Trichloroethane	ND		33	11	ug/L			12/29/17 14:08	33.33
1,1-Dichloroethane	ND		33	8.3	ug/L			12/29/17 14:08	33.33
1,1-Dichloroethene	ND		33	9.0	ug/L			12/29/17 14:08	33.33
1,1-Dichloropropene	ND		33	9.3	ug/L			12/29/17 14:08	33.33
1,2,3-Trichlorobenzene	ND		33	12	ug/L			12/29/17 14:08	33.33
1,2,3-Trichloropropane	ND		33	18	ug/L			12/29/17 14:08	33.33
1,2,4-Trichlorobenzene	ND		33	9.0	ug/L			12/29/17 14:08	33.33
1,2,4-Trimethylbenzene	ND		33	8.0	ug/L			12/29/17 14:08	33.33
1,2-Dibromo-3-Chloropropane	ND		67	16	ug/L			12/29/17 14:08	33.33
1,2-Dichlorobenzene	ND		33	8.7	ug/L			12/29/17 14:08	33.33
1,2-Dichloroethane	ND		33	10	ug/L			12/29/17 14:08	33.33
1,2-Dichloropropane	ND		33	10	ug/L			12/29/17 14:08	33.33
1,3,5-Trimethylbenzene	ND		33	8.0	ug/L			12/29/17 14:08	33.33
1,3-Dichlorobenzene	ND		33	11	ug/L			12/29/17 14:08	33.33
1,3-Dichloropropane	ND		33	9.7	ug/L			12/29/17 14:08	33.33
1,4-Dichlorobenzene	ND		33	7.7	ug/L			12/29/17 14:08	33.33
Allyl chloride	ND		67	13	ug/L			12/29/17 14:08	33.33
2,2-Dichloropropane	ND		33	11	ug/L			12/29/17 14:08	33.33
2-Chlorotoluene	ND		33	9.3	ug/L			12/29/17 14:08	33.33
2-Hexanone	ND		330	41	ug/L			12/29/17 14:08	33.33
Bromobenzene	ND		33	10	ug/L			12/29/17 14:08	33.33
Bromochloromethane	ND		33	16	ug/L			12/29/17 14:08	33.33
4-Chlorotoluene	ND		33	7.7	ug/L			12/29/17 14:08	33.33
p-Isopropyltoluene	ND		33	9.7	ug/L			12/29/17 14:08	33.33
Acetone	ND		330	59	ug/L			12/29/17 14:08	33.33
Benzene	ND		33	9.3	ug/L			12/29/17 14:08	33.33
Bromoform	ND		33	14	ug/L			12/29/17 14:08	33.33
Bromomethane	ND		33	14	ug/L			12/29/17 14:08	33.33
Carbon disulfide	ND		33	11	ug/L			12/29/17 14:08	33.33
Carbon tetrachloride	ND		33	12	ug/L			12/29/17 14:08	33.33
Chlorobenzene	ND		33	11	ug/L			12/29/17 14:08	33.33
Chloroethane	ND		33	14	ug/L			12/29/17 14:08	33.33
Chloroform	ND		33	10	ug/L			12/29/17 14:08	33.33
Chloromethane	ND		33	14	ug/L			12/29/17 14:08	33.33
cis-1,2-Dichloroethene	640		33	10	ug/L			12/29/17 14:08	33.33
cis-1,3-Dichloropropene	ND		33	8.7	ug/L			12/29/17 14:08	33.33
Cyclohexane	ND		33	15	ug/L			12/29/17 14:08	33.33
Hexachlorobutadiene	ND		33	12	ug/L			12/29/17 14:08	33.33
Dibromomethane	ND		33	15	ug/L			12/29/17 14:08	33.33
Bromodichloromethane	ND		33	10	ug/L			12/29/17 14:08	33.33
Dichlorodifluoromethane	ND		33	17	ug/L			12/29/17 14:08	33.33
Dichlorofluoromethane	ND		67	14	ug/L			12/29/17 14:08	33.33
Ethyl ether	ND		67	12	ug/L			12/29/17 14:08	33.33
Ethylbenzene	ND		33	8.7	ug/L			12/29/17 14:08	33.33
1,2-Dibromoethane	ND		33	7.7	ug/L			12/29/17 14:08	33.33

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		33	8.3	ug/L			12/29/17 14:08	33.33
m-Xylene & p-Xylene	ND		67	8.0	ug/L			12/29/17 14:08	33.33
n-Butylbenzene	ND		33	7.0	ug/L			12/29/17 14:08	33.33
Isopropylbenzene	ND		33	7.0	ug/L			12/29/17 14:08	33.33
Methyl acetate	ND		330	48	ug/L			12/29/17 14:08	33.33
N-Propylbenzene	ND		33	15	ug/L			12/29/17 14:08	33.33
2-Butanone (MEK)	ND		330	34	ug/L			12/29/17 14:08	33.33
4-Methyl-2-pentanone (MIBK)	ND		330	24	ug/L			12/29/17 14:08	33.33
sec-Butylbenzene	ND		33	9.0	ug/L			12/29/17 14:08	33.33
Methyl tert butyl ether	ND		33	9.0	ug/L			12/29/17 14:08	33.33
Methylene Chloride	18 J		33	18	ug/L			12/29/17 14:08	33.33
o-Xylene	ND		33	9.3	ug/L			12/29/17 14:08	33.33
Styrene	ND		33	7.7	ug/L			12/29/17 14:08	33.33
tert-Butylbenzene	ND		33	8.7	ug/L			12/29/17 14:08	33.33
Tetrachloroethene	ND		33	10	ug/L			12/29/17 14:08	33.33
Tetrahydrofuran	ND		170	28	ug/L			12/29/17 14:08	33.33
Toluene	ND		33	7.7	ug/L			12/29/17 14:08	33.33
trans-1,2-Dichloroethene	ND		33	9.7	ug/L			12/29/17 14:08	33.33
trans-1,3-Dichloropropene	ND		33	10	ug/L			12/29/17 14:08	33.33
Trichloroethene	120		33	11	ug/L			12/29/17 14:08	33.33
Trichlorofluoromethane	ND		33	17	ug/L			12/29/17 14:08	33.33
Vinyl chloride	ND		33	15	ug/L			12/29/17 14:08	33.33
Methylcyclohexane	ND		33	15	ug/L			12/29/17 14:08	33.33
Chlorodibromomethane	ND		33	8.3	ug/L			12/29/17 14:08	33.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 138		12/29/17 14:08	33.33
4-Bromofluorobenzene (Surr)	104		69 - 120		12/29/17 14:08	33.33
Toluene-d8 (Surr)	99		73 - 120		12/29/17 14:08	33.33
Dibromofluoromethane (Surr)	104		69 - 124		12/29/17 14:08	33.33

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 19:13	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/22/17 09:09	12/26/17 19:13	1
Acetophenone	ND		0.95	0.32	ug/L		12/22/17 09:09	12/26/17 19:13	1
Anthracene	ND		0.19	0.084	ug/L		12/22/17 09:09	12/26/17 19:13	1
Atrazine	ND		1.9	0.32	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/22/17 09:09	12/26/17 19:13	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/22/17 09:09	12/26/17 19:13	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/22/17 09:09	12/26/17 19:13	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/22/17 09:09	12/26/17 19:13	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 19:13	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 19:13	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 19:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/22/17 09:09	12/26/17 19:13	1
Carbazole	ND		0.95	0.27	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/22/17 09:09	12/26/17 19:13	1
Chrysene	ND		0.19	0.048	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/22/17 09:09	12/26/17 19:13	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/22/17 09:09	12/26/17 19:13	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 19:13	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/22/17 09:09	12/26/17 19:13	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/22/17 09:09	12/26/17 19:13	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/22/17 09:09	12/26/17 19:13	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/22/17 09:09	12/26/17 19:13	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/22/17 09:09	12/26/17 19:13	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/22/17 09:09	12/26/17 19:13	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/22/17 09:09	12/26/17 19:13	1
Fluoranthene	ND		0.19	0.042	ug/L		12/22/17 09:09	12/26/17 19:13	1
Fluorene	ND		0.19	0.039	ug/L		12/22/17 09:09	12/26/17 19:13	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/22/17 09:09	12/26/17 19:13	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 19:13	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/22/17 09:09	12/26/17 19:13	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/22/17 09:09	12/26/17 19:13	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/22/17 09:09	12/26/17 19:13	1
Isophorone	ND		0.95	0.26	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/22/17 09:09	12/26/17 19:13	1
Naphthalene	ND		0.19	0.060	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/22/17 09:09	12/26/17 19:13	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/22/17 09:09	12/26/17 19:13	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/22/17 09:09	12/26/17 19:13	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/22/17 09:09	12/26/17 19:13	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/22/17 09:09	12/26/17 19:13	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/22/17 09:09	12/26/17 19:13	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/22/17 09:09	12/26/17 19:13	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/22/17 09:09	12/26/17 19:13	1
Phenanthrene	ND		0.19	0.059	ug/L		12/22/17 09:09	12/26/17 19:13	1
Phenol	ND		0.95	0.57	ug/L		12/22/17 09:09	12/26/17 19:13	1
Pyrene	ND		0.19	0.040	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/22/17 09:09	12/26/17 19:13	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/22/17 09:09	12/26/17 19:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		38 - 120	12/22/17 09:09	12/26/17 19:13	1
2-Fluorophenol (Surr)	51		10 - 120	12/22/17 09:09	12/26/17 19:13	1
2,4,6-Tribromophenol (Surr)	100		28 - 120	12/22/17 09:09	12/26/17 19:13	1
Nitrobenzene-d5 (Surr)	83		32 - 120	12/22/17 09:09	12/26/17 19:13	1
Phenol-d5 (Surr)	30		10 - 120	12/22/17 09:09	12/26/17 19:13	1
Terphenyl-d14 (Surr)	92		23 - 127	12/22/17 09:09	12/26/17 19:13	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	250		100	40	ug/L			12/22/17 17:04	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1221	ND		0.19	0.087	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1242	ND		0.19	0.058	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/26/17 09:30	12/28/17 12:56	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/26/17 09:30	12/28/17 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		10 - 120	12/26/17 09:30	12/28/17 12:56	1
Tetrachloro-m-xylene	71		22 - 120	12/26/17 09:30	12/28/17 12:56	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.23	B	0.095	0.019	mg/L		12/22/17 08:56	12/23/17 01:55	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	53	J	200	1.3	ug/L		12/21/17 14:00	12/22/17 18:54	1
Aluminum	ND		200	47	ug/L		12/21/17 14:00	12/22/17 18:54	1
Cadmium	ND		5.0	0.20	ug/L		12/21/17 14:00	12/22/17 18:54	1
Chromium	ND		10	0.63	ug/L		12/21/17 14:00	12/22/17 18:54	1
Silver	ND		10	0.62	ug/L		12/21/17 14:00	12/22/17 18:54	1
Arsenic	ND		10	4.1	ug/L		12/21/17 14:00	12/22/17 18:54	1
Beryllium	ND		5.0	0.60	ug/L		12/21/17 14:00	12/22/17 18:54	1
Lead	ND		3.0	2.8	ug/L		12/21/17 14:00	12/22/17 18:54	1
Calcium	55000		5000	310	ug/L		12/21/17 14:00	12/22/17 18:54	1
Cobalt	ND		7.0	0.75	ug/L		12/21/17 14:00	12/22/17 18:54	1
Copper	ND		25	3.5	ug/L		12/21/17 14:00	12/22/17 18:54	1
Iron	280		100	26	ug/L		12/21/17 14:00	12/22/17 18:54	1
Potassium	5600		5000	560	ug/L		12/21/17 14:00	12/22/17 18:54	1
Magnesium	37000		5000	780	ug/L		12/21/17 14:00	12/22/17 18:54	1
Manganese	75		15	2.1	ug/L		12/21/17 14:00	12/22/17 18:54	1
Sodium	20000		5000	560	ug/L		12/21/17 14:00	12/22/17 18:54	1
Nickel	ND		40	2.2	ug/L		12/21/17 14:00	12/22/17 18:54	1
Antimony	ND		10	7.5	ug/L		12/21/17 14:00	12/22/17 18:54	1
Vanadium	ND		10	5.6	ug/L		12/21/17 14:00	12/22/17 18:54	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/21/17 14:00	12/22/17 18:54	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/21/17 14:00	12/22/17 12:24	1
Thallium	ND		1.0	0.20	ug/L	-	12/21/17 14:00	12/22/17 12:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/21/17 14:00	12/22/17 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/21/17 11:15	12/21/17 13:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: TRIP BLANK

Date Collected: 12/18/17 00:00

Date Received: 12/20/17 10:30

Lab Sample ID: 240-89649-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 14:31	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 14:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 14:31	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 14:31	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 14:31	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 14:31	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 14:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 14:31	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 14:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 14:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 14:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 14:31	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 14:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 14:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 14:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 14:31	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 14:31	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 14:31	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 14:31	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 14:31	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 14:31	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 14:31	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 14:31	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 14:31	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 14:31	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 14:31	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 14:31	1
Acetone	ND		10	1.8	ug/L			12/29/17 14:31	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 14:31	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 14:31	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 14:31	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 14:31	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 14:31	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 14:31	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 14:31	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 14:31	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 14:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 14:31	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 14:31	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 14:31	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 14:31	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 14:31	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 14:31	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 14:31	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/29/17 14:31	1
Ethyl ether	ND		1.0	0.35	ug/L			12/29/17 14:31	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 14:31	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 14:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89649-7

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 14:31	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 14:31	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 14:31	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 14:31	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 14:31	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 14:31	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/29/17 14:31	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 14:31	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/29/17 14:31	1
Methylene Chloride	0.62	J	1.0	0.53	ug/L			12/29/17 14:31	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 14:31	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 14:31	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 14:31	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 14:31	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 14:31	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 14:31	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 14:31	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 14:31	1
Trichloroethene	ND		1.0	0.33	ug/L			12/29/17 14:31	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 14:31	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 14:31	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 14:31	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 138		12/29/17 14:31	1
4-Bromofluorobenzene (Surr)	97		69 - 120		12/29/17 14:31	1
Toluene-d8 (Surr)	92		73 - 120		12/29/17 14:31	1
Dibromofluoromethane (Surr)	98		69 - 124		12/29/17 14:31	1

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89649-1	AMW-04(20171218)	87	98	94	99
240-89649-2	AMW-27(20171218)	96	105	99	106
240-89649-3	AMW-28(20171218)	91	101	96	104
240-89649-3 MS	AMW-28(20171218)	83	100	96	98
240-89649-3 MSD	AMW-28(20171218)	91	101	96	99
240-89649-4	AMW-29(20171218)	86	99	95	98
240-89649-5	DUP-03(20171218)	92	101	98	105
240-89649-6	AMW-06(20171219)	92	104	99	104
240-89649-7	TRIP BLANK	86	97	92	98
LCS 240-309539/4	Lab Control Sample	86	102	96	102
MB 240-309539/7	Method Blank	87	96	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89649-1	AMW-04(20171218)	82	44	76	70	27	89
240-89649-2	AMW-27(20171218)	98	57	63	85	38	113
240-89649-3	AMW-28(20171218)	68	38	36	56	23	88
240-89649-3 MS	AMW-28(20171218)	81	40	92	78	25	83
240-89649-3 MSD	AMW-28(20171218)	81	48	82	81	31	82
240-89649-4	AMW-29(20171218)	93	44	35	78	27	94
240-89649-5	DUP-03(20171218)	94	49	38	78	31	96
240-89649-6	AMW-06(20171219)	96	51	100	83	30	92
LCS 240-308853/10-A	Lab Control Sample	94	54	94	88	35	101
MB 240-308853/9-A	Method Blank	93	58	57	82	38	107

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-120)	TCX2 (22-120)
240-89649-1	AMW-04(20171218)	36	59

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (10-120)	TCX2 (22-120)
240-89649-2	AMW-27(20171218)	49	63
240-89649-3	AMW-28(20171218)	24	63
240-89649-3 MS	AMW-28(20171218)	27	64
240-89649-3 MSD	AMW-28(20171218)	31 p	62
240-89649-4	AMW-29(20171218)	33	59
240-89649-5	DUP-03(20171218)	38	60
240-89649-6	AMW-06(20171219)	64	71
LCS 240-308869/21-A	Lab Control Sample	51	80
LCS 240-309059/18-A	Lab Control Sample	87	65
MB 240-308869/20-A	Method Blank	72	78
MB 240-309059/17-A	Method Blank	83	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309539/7

Matrix: Water

Analysis Batch: 309539

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/29/17 10:53	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/29/17 10:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/29/17 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/29/17 10:53	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/29/17 10:53	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/29/17 10:53	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/29/17 10:53	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/29/17 10:53	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/29/17 10:53	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/29/17 10:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/29/17 10:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 10:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/29/17 10:53	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/29/17 10:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/29/17 10:53	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/29/17 10:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/29/17 10:53	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/29/17 10:53	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/29/17 10:53	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/29/17 10:53	1
Allyl chloride	ND		2.0	0.38	ug/L			12/29/17 10:53	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/29/17 10:53	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/29/17 10:53	1
2-Hexanone	ND		10	1.2	ug/L			12/29/17 10:53	1
Bromobenzene	ND		1.0	0.31	ug/L			12/29/17 10:53	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/29/17 10:53	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/29/17 10:53	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/29/17 10:53	1
Acetone	ND		10	1.8	ug/L			12/29/17 10:53	1
Benzene	ND		1.0	0.28	ug/L			12/29/17 10:53	1
Bromoform	ND		1.0	0.43	ug/L			12/29/17 10:53	1
Bromomethane	ND		1.0	0.42	ug/L			12/29/17 10:53	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/29/17 10:53	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/29/17 10:53	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/29/17 10:53	1
Chloroethane	ND		1.0	0.41	ug/L			12/29/17 10:53	1
Chloroform	ND		1.0	0.31	ug/L			12/29/17 10:53	1
Chloromethane	ND		1.0	0.43	ug/L			12/29/17 10:53	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/29/17 10:53	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/29/17 10:53	1
Cyclohexane	ND		1.0	0.44	ug/L			12/29/17 10:53	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/29/17 10:53	1
Dibromomethane	ND		1.0	0.46	ug/L			12/29/17 10:53	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/29/17 10:53	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/29/17 10:53	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/29/17 10:53	1
Ethyl ether	ND		2.0	0.35	ug/L			12/29/17 10:53	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/29/17 10:53	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309539/7

Matrix: Water

Analysis Batch: 309539

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/29/17 10:53	1
Naphthalene	ND		1.0	0.25	ug/L			12/29/17 10:53	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/29/17 10:53	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/29/17 10:53	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/29/17 10:53	1
Methyl acetate	ND		10	1.4	ug/L			12/29/17 10:53	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/29/17 10:53	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/29/17 10:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/29/17 10:53	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/29/17 10:53	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/29/17 10:53	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/29/17 10:53	1
o-Xylene	ND		1.0	0.28	ug/L			12/29/17 10:53	1
Styrene	ND		1.0	0.23	ug/L			12/29/17 10:53	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/29/17 10:53	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/29/17 10:53	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/29/17 10:53	1
Toluene	ND		1.0	0.23	ug/L			12/29/17 10:53	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/29/17 10:53	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/29/17 10:53	1
Trichloroethene	ND		1.0	0.33	ug/L			12/29/17 10:53	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/29/17 10:53	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/29/17 10:53	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/29/17 10:53	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/29/17 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 138		12/29/17 10:53	1
4-Bromofluorobenzene (Surr)	96		69 - 120		12/29/17 10:53	1
Toluene-d8 (Surr)	96		73 - 120		12/29/17 10:53	1
Dibromofluoromethane (Surr)	99		69 - 124		12/29/17 10:53	1

Lab Sample ID: LCS 240-309539/4

Matrix: Water

Analysis Batch: 309539

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	16.4		ug/L		82	73 - 136
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	64 - 147
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		95	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.7		ug/L		98	65 - 144
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	76 - 121
1,1-Dichloroethane	20.0	20.1		ug/L		100	74 - 120
1,1-Dichloroethene	20.0	17.2		ug/L		86	65 - 127
1,1-Dichloropropene	20.0	18.2		ug/L		91	80 - 122
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	31 - 144
1,2,3-Trichloropropane	20.0	19.2		ug/L		96	53 - 134

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309539/4

Matrix: Water

Analysis Batch: 309539

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	20.0	18.3		ug/L		91	34 - 141
1,2,4-Trimethylbenzene	20.0	17.4		ug/L		87	80 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	50 - 130
1,2-Dichlorobenzene	20.0	18.1		ug/L		90	80 - 120
1,2-Dichloroethane	20.0	19.4		ug/L		97	68 - 133
1,2-Dichloropropane	20.0	20.6		ug/L		103	78 - 127
1,3,5-Trimethylbenzene	20.0	18.2		ug/L		91	79 - 120
1,3-Dichlorobenzene	20.0	17.8		ug/L		89	80 - 120
1,3-Dichloropropane	20.0	18.5		ug/L		92	71 - 124
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	80 - 120
Allyl chloride	20.0	20.1		ug/L		100	57 - 143
2,2-Dichloropropane	20.0	17.3		ug/L		86	32 - 178
2-Chlorotoluene	20.0	18.6		ug/L		93	80 - 120
2-Hexanone	40.0	40.1		ug/L		100	28 - 169
Bromobenzene	20.0	18.5		ug/L		92	73 - 120
Bromochloromethane	20.0	18.4		ug/L		92	78 - 120
4-Chlorotoluene	20.0	17.6		ug/L		88	79 - 120
p-Isopropyltoluene	20.0	17.6		ug/L		88	78 - 125
Acetone	40.0	37.3		ug/L		93	35 - 131
Benzene	20.0	19.8		ug/L		99	79 - 120
Bromoform	20.0	14.1		ug/L		71	55 - 145
Bromomethane	20.0	19.6		ug/L		98	17 - 158
Carbon disulfide	20.0	18.5		ug/L		92	49 - 141
Carbon tetrachloride	20.0	16.9		ug/L		84	55 - 171
Chlorobenzene	20.0	17.9		ug/L		90	80 - 120
Chloroethane	20.0	18.5		ug/L		93	10 - 149
Chloroform	20.0	18.8		ug/L		94	80 - 120
Chloromethane	20.0	15.9		ug/L		79	59 - 124
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	77 - 120
cis-1,3-Dichloropropene	20.0	18.1		ug/L		90	75 - 120
Cyclohexane	20.0	19.0		ug/L		95	66 - 135
Hexachlorobutadiene	20.0	18.2		ug/L		91	36 - 146
Dibromomethane	20.0	20.6		ug/L		103	80 - 120
Bromodichloromethane	20.0	18.8		ug/L		94	79 - 125
Dichlorodifluoromethane	20.0	10.5		ug/L		53	42 - 141
Dichlorofluoromethane	20.0	19.9		ug/L		100	28 - 138
Ethyl ether	20.0	21.0		ug/L		105	72 - 125
Ethylbenzene	20.0	18.1		ug/L		90	80 - 120
1,2-Dibromoethane	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	18.2		ug/L		91	31 - 127
m-Xylene & p-Xylene	20.0	18.1		ug/L		90	80 - 120
n-Butylbenzene	20.0	16.6		ug/L		83	60 - 137
Isopropylbenzene	20.0	17.7		ug/L		89	80 - 128
Methyl acetate	40.0	38.0		ug/L		95	63 - 137
N-Propylbenzene	20.0	18.1		ug/L		91	76 - 120
2-Butanone (MEK)	40.0	44.5		ug/L		111	43 - 149
4-Methyl-2-pentanone (MIBK)	40.0	40.4		ug/L		101	53 - 144
sec-Butylbenzene	20.0	17.5		ug/L		87	76 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309539/4

Matrix: Water

Analysis Batch: 309539

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	20.0	20.2		ug/L		101	73 - 120
Methylene Chloride	20.0	18.9		ug/L		95	64 - 140
o-Xylene	20.0	17.7		ug/L		88	80 - 120
Styrene	20.0	18.1		ug/L		90	80 - 121
tert-Butylbenzene	20.0	17.4		ug/L		87	79 - 120
Tetrachloroethene	20.0	18.7		ug/L		93	80 - 122
Tetrahydrofuran	40.0	41.8		ug/L		104	63 - 131
Toluene	20.0	18.0		ug/L		90	78 - 120
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	74 - 124
trans-1,3-Dichloropropene	20.0	14.5		ug/L		72	67 - 120
Trichloroethene	20.0	19.2		ug/L		96	76 - 124
Trichlorofluoromethane	20.0	16.9		ug/L		84	27 - 176
Vinyl chloride	20.0	16.7		ug/L		84	65 - 124
Methylcyclohexane	20.0	18.7		ug/L		93	63 - 141
Chlorodibromomethane	20.0	17.7		ug/L		88	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		61 - 138
4-Bromofluorobenzene (Surr)	102		69 - 120
Toluene-d8 (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	102		69 - 124

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	15.2		ug/L		76	67 - 142
1,1,1-Trichloroethane	ND		20.0	18.1		ug/L		91	57 - 156
1,1,2,2-Tetrachloroethane	ND		20.0	15.6		ug/L		78	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.2		ug/L		101	58 - 137
1,1,2-Trichloroethane	ND		20.0	18.4		ug/L		92	68 - 127
1,1-Dichloroethane	ND		20.0	19.9		ug/L		100	69 - 122
1,1-Dichloroethene	ND		20.0	18.8		ug/L		94	62 - 127
1,1-Dichloropropene	ND		20.0	18.9		ug/L		95	55 - 136
1,2,3-Trichlorobenzene	ND		20.0	15.9		ug/L		80	40 - 139
1,2,3-Trichloropropane	ND		20.0	15.7		ug/L		79	41 - 152
1,2,4-Trichlorobenzene	ND		20.0	16.5		ug/L		83	26 - 138
1,2,4-Trimethylbenzene	ND		20.0	17.0		ug/L		85	64 - 120
1,2-Dibromo-3-Chloropropane	ND		20.0	11.4		ug/L		57	48 - 130
1,2-Dichlorobenzene	ND		20.0	16.9		ug/L		85	70 - 120
1,2-Dichloroethane	ND		20.0	18.9		ug/L		95	64 - 138
1,2-Dichloropropane	ND		20.0	20.5		ug/L		102	72 - 131
1,3,5-Trimethylbenzene	ND		20.0	17.4		ug/L		87	67 - 120
1,3-Dichlorobenzene	ND		20.0	17.0		ug/L		85	71 - 120
1,3-Dichloropropane	ND		20.0	17.6		ug/L		88	58 - 137
1,4-Dichlorobenzene	ND		20.0	17.1		ug/L		86	72 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Allyl chloride	ND		20.0	13.9		ug/L		70	55 - 137
2,2-Dichloropropane	ND		20.0	14.5		ug/L		72	34 - 153
2-Chlorotoluene	ND		20.0	17.6		ug/L		88	52 - 134
2-Hexanone	ND		40.0	31.2		ug/L		78	21 - 184
Bromobenzene	ND		20.0	17.5		ug/L		88	59 - 131
Bromochloromethane	ND		20.0	18.7		ug/L		93	66 - 132
4-Chlorotoluene	ND		20.0	17.3		ug/L		87	52 - 133
p-Isopropyltoluene	ND		20.0	17.1		ug/L		86	70 - 120
Acetone	ND		40.0	33.3		ug/L		83	19 - 133
Benzene	ND		20.0	19.8		ug/L		99	69 - 127
Bromoform	ND	F1	20.0	10.1	F1	ug/L		50	61 - 135
Bromomethane	ND		20.0	18.8		ug/L		94	10 - 148
Carbon disulfide	ND		20.0	18.2		ug/L		91	46 - 143
Carbon tetrachloride	ND		20.0	15.2		ug/L		76	53 - 175
Chlorobenzene	ND		20.0	18.1		ug/L		91	76 - 120
Chloroethane	ND		20.0	18.7		ug/L		94	10 - 141
Chloroform	ND		20.0	19.0		ug/L		95	74 - 125
Chloromethane	ND		20.0	14.4		ug/L		72	34 - 127
cis-1,2-Dichloroethene	ND		20.0	19.4		ug/L		97	69 - 127
cis-1,3-Dichloropropene	ND		20.0	14.6		ug/L		73	68 - 120
Cyclohexane	ND		20.0	19.5		ug/L		98	56 - 135
Hexachlorobutadiene	ND		20.0	15.6		ug/L		78	30 - 134
Dibromomethane	ND		20.0	19.5		ug/L		98	73 - 120
Bromodichloromethane	ND		20.0	17.5		ug/L		87	75 - 128
Dichlorodifluoromethane	ND		20.0	12.4		ug/L		62	45 - 130
Dichlorofluoromethane	ND		20.0	18.5		ug/L		93	36 - 161
Ethyl ether	ND		20.0	19.9		ug/L		100	65 - 124
Ethylbenzene	ND		20.0	18.4		ug/L		92	72 - 121
1,2-Dibromoethane	ND		20.0	16.8		ug/L		84	73 - 121
Naphthalene	ND		20.0	14.3		ug/L		71	28 - 150
m-Xylene & p-Xylene	ND		20.0	18.8		ug/L		94	70 - 121
n-Butylbenzene	ND		20.0	15.8		ug/L		79	38 - 133
Isopropylbenzene	ND		20.0	18.4		ug/L		92	70 - 132
Methyl acetate	ND		40.0	30.5		ug/L		76	52 - 139
N-Propylbenzene	ND		20.0	17.6		ug/L		88	50 - 134
2-Butanone (MEK)	ND		40.0	34.5		ug/L		86	34 - 153
4-Methyl-2-pentanone (MIBK)	ND		40.0	30.8		ug/L		77	53 - 147
sec-Butylbenzene	ND		20.0	16.8		ug/L		84	43 - 133
Methyl tert butyl ether	ND		20.0	18.4		ug/L		92	67 - 125
Methylene Chloride	ND		20.0	18.3		ug/L		92	52 - 137
o-Xylene	ND		20.0	18.4		ug/L		92	71 - 125
Styrene	ND		20.0	18.3		ug/L		92	74 - 125
tert-Butylbenzene	ND		20.0	17.1		ug/L		86	48 - 131
Tetrachloroethene	ND		20.0	19.4		ug/L		97	69 - 126
Tetrahydrofuran	ND		40.0	30.9		ug/L		77	40 - 128
Toluene	ND		20.0	18.2		ug/L		91	69 - 125
trans-1,2-Dichloroethene	ND		20.0	19.9		ug/L		100	66 - 131
trans-1,3-Dichloropropene	ND	F1	20.0	11.4	F1	ug/L		57	59 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	ND		20.0	19.2		ug/L		96	68 - 129
Trichlorofluoromethane	ND		20.0	18.8		ug/L		94	28 - 172
Vinyl chloride	ND		20.0	16.6		ug/L		83	55 - 123
Methylcyclohexane	ND		20.0	18.2		ug/L		91	46 - 139
Chlorodibromomethane	ND		20.0	14.7		ug/L		74	62 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		61 - 138
4-Bromofluorobenzene (Surr)	100		69 - 120
Toluene-d8 (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	98		69 - 124

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	14.3		ug/L		71	67 - 142	6	18
1,1,1-Trichloroethane	ND		20.0	16.8		ug/L		84	57 - 156	7	13
1,1,2,2-Tetrachloroethane	ND		20.0	14.5		ug/L		73	51 - 123	7	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.6		ug/L		103	58 - 137	2	35
1,1,2-Trichloroethane	ND		20.0	16.9		ug/L		84	68 - 127	9	11
1,1-Dichloroethane	ND		20.0	18.4		ug/L		92	69 - 122	8	11
1,1-Dichloroethene	ND		20.0	18.0		ug/L		90	62 - 127	4	14
1,1-Dichloropropene	ND		20.0	17.7		ug/L		88	55 - 136	7	35
1,2,3-Trichlorobenzene	ND		20.0	15.7		ug/L		79	40 - 139	1	35
1,2,3-Trichloropropane	ND		20.0	14.9		ug/L		74	41 - 152	6	12
1,2,4-Trichlorobenzene	ND		20.0	16.3		ug/L		81	26 - 138	1	35
1,2,4-Trimethylbenzene	ND		20.0	16.1		ug/L		80	64 - 120	6	22
1,2-Dibromo-3-Chloropropane	ND		20.0	11.1		ug/L		55	48 - 130	3	31
1,2-Dichlorobenzene	ND		20.0	16.2		ug/L		81	70 - 120	4	19
1,2-Dichloroethane	ND		20.0	17.3		ug/L		86	64 - 138	9	11
1,2-Dichloropropane	ND		20.0	18.9		ug/L		95	72 - 131	8	12
1,3,5-Trimethylbenzene	ND		20.0	16.5		ug/L		83	67 - 120	5	25
1,3-Dichlorobenzene	ND		20.0	16.0		ug/L		80	71 - 120	6	18
1,3-Dichloropropane	ND		20.0	16.4		ug/L		82	58 - 137	7	35
1,4-Dichlorobenzene	ND		20.0	16.2		ug/L		81	72 - 120	6	17
Allyl chloride	ND		20.0	15.7		ug/L		78	55 - 137	12	20
2,2-Dichloropropane	ND		20.0	14.2		ug/L		71	34 - 153	2	35
2-Chlorotoluene	ND		20.0	16.7		ug/L		84	52 - 134	5	35
2-Hexanone	ND		40.0	28.8		ug/L		72	21 - 184	8	12
Bromobenzene	ND		20.0	16.3		ug/L		82	59 - 131	7	35
Bromochloromethane	ND		20.0	17.3		ug/L		87	66 - 132	7	15
4-Chlorotoluene	ND		20.0	16.4		ug/L		82	52 - 133	6	35
p-Isopropyltoluene	ND		20.0	16.3		ug/L		82	70 - 120	5	22
Acetone	ND		40.0	30.1		ug/L		75	19 - 133	10	35
Benzene	ND		20.0	18.2		ug/L		91	69 - 127	9	10

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND	F1	20.0	9.22	F1	ug/L		46	61 - 135	9	13
Bromomethane	ND		20.0	18.7		ug/L		93	10 - 148	1	35
Carbon disulfide	ND		20.0	18.0		ug/L		90	46 - 143	1	18
Carbon tetrachloride	ND		20.0	14.8		ug/L		74	53 - 175	2	17
Chlorobenzene	ND		20.0	16.6		ug/L		83	76 - 120	8	12
Chloroethane	ND		20.0	18.0		ug/L		90	10 - 141	4	35
Chloroform	ND		20.0	17.5		ug/L		87	74 - 125	8	11
Chloromethane	ND		20.0	14.5		ug/L		73	34 - 127	1	25
cis-1,2-Dichloroethene	ND		20.0	17.6		ug/L		88	69 - 127	10	11
cis-1,3-Dichloropropene	ND		20.0	13.9		ug/L		69	68 - 120	5	13
Cyclohexane	ND		20.0	19.4		ug/L		97	56 - 135	0	35
Hexachlorobutadiene	ND		20.0	16.0		ug/L		80	30 - 134	2	35
Dibromomethane	ND		20.0	17.8		ug/L		89	73 - 120	9	16
Bromodichloromethane	ND		20.0	16.3		ug/L		82	75 - 128	7	13
Dichlorodifluoromethane	ND		20.0	12.9		ug/L		65	45 - 130	4	34
Dichlorofluoromethane	ND		20.0	18.9		ug/L		95	36 - 161	2	35
Ethyl ether	ND		20.0	18.3		ug/L		92	65 - 124	9	11
Ethylbenzene	ND		20.0	16.7		ug/L		83	72 - 121	10	15
1,2-Dibromoethane	ND		20.0	15.3		ug/L		77	73 - 121	9	12
Naphthalene	ND		20.0	14.0		ug/L		70	28 - 150	2	35
m-Xylene & p-Xylene	ND		20.0	17.3		ug/L		86	70 - 121	9	15
n-Butylbenzene	ND		20.0	15.3		ug/L		77	38 - 133	3	35
Isopropylbenzene	ND		20.0	17.1		ug/L		86	70 - 132	7	16
Methyl acetate	ND		40.0	29.0		ug/L		73	52 - 139	5	14
N-Propylbenzene	ND		20.0	16.7		ug/L		83	50 - 134	6	35
2-Butanone (MEK)	ND		40.0	29.0		ug/L		73	34 - 153	17	23
4-Methyl-2-pentanone (MIBK)	ND		40.0	29.8		ug/L		75	53 - 147	3	16
sec-Butylbenzene	ND		20.0	16.3		ug/L		82	43 - 133	3	35
Methyl tert butyl ether	ND		20.0	16.7		ug/L		83	67 - 125	10	12
Methylene Chloride	ND		20.0	17.1		ug/L		86	52 - 137	7	12
o-Xylene	ND		20.0	16.7		ug/L		83	71 - 125	10	15
Styrene	ND		20.0	16.6		ug/L		83	74 - 125	10	14
tert-Butylbenzene	ND		20.0	16.4		ug/L		82	48 - 131	4	35
Tetrachloroethene	ND		20.0	18.2		ug/L		91	69 - 126	6	18
Tetrahydrofuran	ND		40.0	30.5		ug/L		76	40 - 128	1	15
Toluene	ND		20.0	16.8		ug/L		84	69 - 125	8	14
trans-1,2-Dichloroethene	ND		20.0	18.9		ug/L		94	66 - 131	5	11
trans-1,3-Dichloropropene	ND	F1	20.0	11.1	F1	ug/L		55	59 - 120	3	14
Trichloroethene	ND		20.0	17.7		ug/L		89	68 - 129	8	12
Trichlorofluoromethane	ND		20.0	19.3		ug/L		96	28 - 172	3	26
Vinyl chloride	ND		20.0	16.5		ug/L		83	55 - 123	0	12
Methylcyclohexane	ND		20.0	19.0		ug/L		95	46 - 139	4	35
Chlorodibromomethane	ND		20.0	14.0		ug/L		70	62 - 131	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		61 - 138
4-Bromofluorobenzene (Surr)	101		69 - 120
Toluene-d8 (Surr)	96		73 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309539

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	99		69 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-308853/9-A

Matrix: Water

Analysis Batch: 309051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/22/17 09:09	12/26/17 10:00	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/22/17 09:09	12/26/17 10:00	1
Acetophenone	ND		1.0	0.34	ug/L		12/22/17 09:09	12/26/17 10:00	1
Anthracene	ND		0.20	0.088	ug/L		12/22/17 09:09	12/26/17 10:00	1
Atrazine	ND		2.0	0.34	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/22/17 09:09	12/26/17 10:00	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/22/17 09:09	12/26/17 10:00	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/22/17 09:09	12/26/17 10:00	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/22/17 09:09	12/26/17 10:00	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/22/17 09:09	12/26/17 10:00	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/22/17 09:09	12/26/17 10:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/22/17 09:09	12/26/17 10:00	1
Caprolactam	ND		5.0	0.20	ug/L		12/22/17 09:09	12/26/17 10:00	1
Carbazole	ND		1.0	0.28	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/22/17 09:09	12/26/17 10:00	1
Chrysene	ND		0.20	0.050	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/22/17 09:09	12/26/17 10:00	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/22/17 09:09	12/26/17 10:00	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/22/17 09:09	12/26/17 10:00	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/22/17 09:09	12/26/17 10:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/22/17 09:09	12/26/17 10:00	1
Diethyl phthalate	ND		2.0	0.60	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/22/17 09:09	12/26/17 10:00	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/22/17 09:09	12/26/17 10:00	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/22/17 09:09	12/26/17 10:00	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/22/17 09:09	12/26/17 10:00	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/22/17 09:09	12/26/17 10:00	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308853/9-A

Matrix: Water

Analysis Batch: 309051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.20	0.045	ug/L		12/22/17 09:09	12/26/17 10:00	1
Fluorene	ND		0.20	0.041	ug/L		12/22/17 09:09	12/26/17 10:00	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/22/17 09:09	12/26/17 10:00	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/22/17 09:09	12/26/17 10:00	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/22/17 09:09	12/26/17 10:00	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/22/17 09:09	12/26/17 10:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/22/17 09:09	12/26/17 10:00	1
Isophorone	ND		1.0	0.27	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/22/17 09:09	12/26/17 10:00	1
Naphthalene	ND		0.20	0.063	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/22/17 09:09	12/26/17 10:00	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/22/17 09:09	12/26/17 10:00	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/22/17 09:09	12/26/17 10:00	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/22/17 09:09	12/26/17 10:00	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/22/17 09:09	12/26/17 10:00	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/22/17 09:09	12/26/17 10:00	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/22/17 09:09	12/26/17 10:00	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/22/17 09:09	12/26/17 10:00	1
Phenanthrene	ND		0.20	0.062	ug/L		12/22/17 09:09	12/26/17 10:00	1
Phenol	ND		1.0	0.60	ug/L		12/22/17 09:09	12/26/17 10:00	1
Pyrene	ND		0.20	0.042	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/22/17 09:09	12/26/17 10:00	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/22/17 09:09	12/26/17 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		38 - 120	12/22/17 09:09	12/26/17 10:00	1
2-Fluorophenol (Surr)	58		10 - 120	12/22/17 09:09	12/26/17 10:00	1
2,4,6-Tribromophenol (Surr)	57		28 - 120	12/22/17 09:09	12/26/17 10:00	1
Nitrobenzene-d5 (Surr)	82		32 - 120	12/22/17 09:09	12/26/17 10:00	1
Phenol-d5 (Surr)	38		10 - 120	12/22/17 09:09	12/26/17 10:00	1
Terphenyl-d14 (Surr)	107		23 - 127	12/22/17 09:09	12/26/17 10:00	1

Lab Sample ID: LCS 240-308853/10-A

Matrix: Water

Analysis Batch: 309051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	17.3		ug/L		87	54 - 120
Acenaphthylene	20.0	17.0		ug/L		85	53 - 120
Acetophenone	20.0	17.1		ug/L		85	56 - 120
Anthracene	20.0	18.9		ug/L		94	56 - 120
Atrazine	40.0	40.4		ug/L		101	61 - 127
Benzaldehyde	40.0	37.9		ug/L		95	47 - 134
Benzo[a]anthracene	20.0	18.2		ug/L		91	54 - 120
Benzo[b]fluoranthene	20.0	17.3		ug/L		87	53 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308853/10-A

Matrix: Water

Analysis Batch: 309051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	20.0	19.7		ug/L		99	55 - 120
Benzo[g,h,i]perylene	20.0	17.2		ug/L		86	55 - 120
Benzo[a]pyrene	20.0	18.1		ug/L		91	54 - 120
Butyl benzyl phthalate	20.0	19.7		ug/L		99	51 - 120
1,1'-Biphenyl	20.0	17.7		ug/L		89	53 - 120
Bis(2-chloroethoxy)methane	20.0	17.0		ug/L		85	56 - 120
Bis(2-chloroethyl)ether	20.0	16.7		ug/L		83	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	17.1		ug/L		85	50 - 120
4-Bromophenyl phenyl ether	20.0	18.7		ug/L		94	54 - 120
Caprolactam	40.0	4.72	J	ug/L		12	10 - 120
Carbazole	20.0	19.2		ug/L		96	62 - 120
4-Chloroaniline	20.0	4.16		ug/L		21	10 - 120
4-Chloro-3-methylphenol	20.0	16.4		ug/L		82	54 - 120
2-Chloronaphthalene	20.0	16.9		ug/L		85	53 - 120
2-Chlorophenol	20.0	15.3		ug/L		77	53 - 120
4-Chlorophenyl phenyl ether	20.0	18.1		ug/L		91	56 - 120
Chrysene	20.0	19.0		ug/L		95	56 - 120
2-Methylnaphthalene	20.0	15.6		ug/L		78	54 - 120
3 & 4 Methylphenol	20.0	12.9		ug/L		64	40 - 120
Dibenz(a,h)anthracene	20.0	17.7		ug/L		88	52 - 120
Dibenzofuran	20.0	18.1		ug/L		90	55 - 120
3,3'-Dichlorobenzidine	40.0	39.4		ug/L		99	57 - 120
2,4-Dichlorophenol	20.0	16.2		ug/L		81	55 - 120
Diethyl phthalate	20.0	19.0		ug/L		95	42 - 132
2,4-Dimethylphenol	20.0	16.3		ug/L		82	52 - 120
Dimethyl phthalate	20.0	18.3		ug/L		92	56 - 120
4,6-Dinitro-2-methylphenol	40.0	31.6		ug/L		79	36 - 120
2,4-Dinitrophenol	40.0	25.5		ug/L		64	12 - 120
2,4-Dinitrotoluene	20.0	20.2		ug/L		101	60 - 120
Di-n-butyl phthalate	20.0	19.4		ug/L		97	61 - 120
Di-n-octyl phthalate	20.0	15.6		ug/L		78	58 - 120
Fluoranthene	20.0	19.1		ug/L		95	58 - 120
Fluorene	20.0	18.2		ug/L		91	56 - 120
Hexachlorobenzene	20.0	17.4		ug/L		87	51 - 120
Hexachlorobutadiene	20.0	13.5		ug/L		67	44 - 120
Hexachlorocyclopentadiene	20.0	13.3		ug/L		67	19 - 120
Hexachloroethane	20.0	12.7		ug/L		64	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.0		ug/L		85	54 - 120
Isophorone	20.0	16.5		ug/L		83	55 - 120
2-Methylphenol	20.0	14.3		ug/L		71	46 - 120
Naphthalene	20.0	15.7		ug/L		78	53 - 120
2-Nitroaniline	20.0	18.6		ug/L		93	51 - 120
3-Nitroaniline	20.0	16.8		ug/L		84	53 - 120
4-Nitroaniline	20.0	18.2		ug/L		91	55 - 120
Nitrobenzene	20.0	17.2		ug/L		86	55 - 120
2-Nitrophenol	20.0	15.2		ug/L		76	54 - 120
4-Nitrophenol	40.0	14.6		ug/L		37	10 - 120
N-Nitrosodiphenylamine	20.0	18.6		ug/L		93	55 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308853/10-A

Matrix: Water

Analysis Batch: 309051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	20.0	16.6		ug/L		83	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	17.6		ug/L		88	45 - 120
Pentachlorophenol	40.0	32.5		ug/L		81	30 - 120
Phenanthrene	20.0	18.5		ug/L		92	55 - 120
Phenol	20.0	6.45		ug/L		32	10 - 120
Pyrene	20.0	19.1		ug/L		96	57 - 120
2,4,5-Trichlorophenol	20.0	16.5		ug/L		83	54 - 120
2,4,6-Trichlorophenol	20.0	16.6		ug/L		83	54 - 120
2,6-Dinitrotoluene	20.0	19.1		ug/L		95	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	94		38 - 120
2-Fluorophenol (Surr)	54		10 - 120
2,4,6-Tribromophenol (Surr)	94		28 - 120
Nitrobenzene-d5 (Surr)	88		32 - 120
Phenol-d5 (Surr)	35		10 - 120
Terphenyl-d14 (Surr)	101		23 - 127

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309051

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		19.0	14.7		ug/L		77	35 - 120
Acenaphthylene	ND		19.0	14.2		ug/L		75	36 - 120
Acetophenone	ND		19.0	13.6		ug/L		71	42 - 120
Anthracene	ND		19.0	16.6		ug/L		87	35 - 120
Atrazine	ND		38.1	36.0		ug/L		94	47 - 121
Benzaldehyde	ND		38.1	29.7		ug/L		78	46 - 120
Benzo[a]anthracene	ND		19.0	14.9		ug/L		78	16 - 120
Benzo[b]fluoranthene	ND		19.0	13.2		ug/L		70	10 - 120
Benzo[k]fluoranthene	ND		19.0	14.4		ug/L		76	10 - 120
Benzo[g,h,i]perylene	ND		19.0	11.8		ug/L		62	10 - 120
Benzo[a]pyrene	ND		19.0	13.5		ug/L		71	10 - 120
Butyl benzyl phthalate	ND		19.0	17.3		ug/L		91	39 - 120
1,1'-Biphenyl	ND		19.0	14.6		ug/L		77	45 - 120
Bis(2-chloroethoxy)methane	ND		19.0	13.7		ug/L		72	44 - 120
Bis(2-chloroethyl)ether	ND		19.0	13.1		ug/L		69	42 - 120
Bis(2-ethylhexyl) phthalate	ND		19.0	12.4		ug/L		65	15 - 120
4-Bromophenyl phenyl ether	ND		19.0	16.6		ug/L		87	41 - 120
Caprolactam	ND	F1	38.1	3.20	J F1	ug/L		8	10 - 120
Carbazole	ND		19.0	17.5		ug/L		92	55 - 120
4-Chloroaniline	ND		19.0	2.28		ug/L		12	10 - 120
4-Chloro-3-methylphenol	ND		19.0	13.9		ug/L		73	32 - 120
2-Chloronaphthalene	ND		19.0	14.2		ug/L		74	42 - 120
2-Chlorophenol	ND		19.0	11.9		ug/L		62	29 - 120
4-Chlorophenyl phenyl ether	ND		19.0	16.1		ug/L		85	43 - 120
Chrysene	ND		19.0	15.3		ug/L		80	14 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309051

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		19.0	13.2		ug/L		69	43 - 120
3 & 4 Methylphenol	ND		19.0	9.53		ug/L		50	15 - 120
Dibenz(a,h)anthracene	ND		19.0	11.6		ug/L		61	10 - 120
Dibenzofuran	ND		19.0	15.4		ug/L		81	46 - 120
3,3'-Dichlorobenzidine	ND		38.1	33.3		ug/L		87	10 - 120
2,4-Dichlorophenol	ND		19.0	13.2		ug/L		69	19 - 121
Diethyl phthalate	ND		19.0	17.7		ug/L		93	49 - 120
2,4-Dimethylphenol	ND		19.0	13.7		ug/L		72	16 - 120
Dimethyl phthalate	ND		19.0	16.5		ug/L		86	47 - 120
4,6-Dinitro-2-methylphenol	ND		38.1	26.5		ug/L		70	10 - 120
2,4-Dinitrophenol	ND		38.1	14.7		ug/L		39	10 - 120
2,4-Dinitrotoluene	ND		19.0	16.8		ug/L		88	49 - 120
Di-n-butyl phthalate	ND		19.0	17.6		ug/L		92	42 - 120
Di-n-octyl phthalate	ND		19.0	10.7		ug/L		56	13 - 120
Fluoranthene	ND		19.0	17.1		ug/L		90	28 - 120
Fluorene	ND		19.0	16.1		ug/L		84	36 - 120
Hexachlorobenzene	ND		19.0	15.7		ug/L		83	31 - 120
Hexachlorobutadiene	ND		19.0	11.7		ug/L		62	30 - 120
Hexachlorocyclopentadiene	ND		19.0	10.5		ug/L		55	10 - 120
Hexachloroethane	ND		19.0	11.2		ug/L		59	12 - 120
Indeno[1,2,3-cd]pyrene	ND		19.0	11.9		ug/L		62	10 - 120
Isophorone	ND		19.0	13.4		ug/L		71	45 - 120
2-Methylphenol	ND		19.0	10.8		ug/L		57	18 - 120
Naphthalene	ND		19.0	13.1		ug/L		69	32 - 120
2-Nitroaniline	ND		19.0	16.4		ug/L		86	35 - 120
3-Nitroaniline	ND		19.0	13.2		ug/L		69	10 - 120
4-Nitroaniline	ND		19.0	16.0		ug/L		84	10 - 120
Nitrobenzene	ND		19.0	14.0		ug/L		74	48 - 120
2-Nitrophenol	ND		19.0	11.5		ug/L		60	43 - 120
4-Nitrophenol	ND		38.1	12.0		ug/L		32	10 - 120
N-Nitrosodiphenylamine	ND		19.0	16.9		ug/L		88	39 - 120
N-Nitrosodi-n-propylamine	ND		19.0	13.6		ug/L		71	45 - 120
2,2'-oxybis[1-chloropropane]	ND		19.0	14.0		ug/L		74	44 - 120
Pentachlorophenol	ND		38.1	27.3		ug/L		72	20 - 120
Phenanthrene	ND		19.0	16.6		ug/L		87	36 - 120
Phenol	ND		19.0	4.61		ug/L		24	10 - 120
Pyrene	ND		19.0	17.1		ug/L		90	28 - 120
2,4,5-Trichlorophenol	ND		19.0	14.5		ug/L		76	20 - 120
2,4,6-Trichlorophenol	ND		19.0	12.9		ug/L		68	40 - 120
2,6-Dinitrotoluene	ND		19.0	16.7		ug/L		88	48 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	81		38 - 120
2-Fluorophenol (Surr)	40		10 - 120
2,4,6-Tribromophenol (Surr)	92		28 - 120
Nitrobenzene-d5 (Surr)	78		32 - 120
Phenol-d5 (Surr)	25		10 - 120
Terphenyl-d14 (Surr)	83		23 - 127

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Lab Sample ID: 240-89649-3 MSD
Matrix: Water
Analysis Batch: 309051

Client Sample ID: AMW-28(20171218)
Prep Type: Total/NA
Prep Batch: 308853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		19.8	15.5		ug/L		78	35 - 120	6	35
Acenaphthylene	ND		19.8	14.8		ug/L		75	36 - 120	4	35
Acetophenone	ND		19.8	15.0		ug/L		76	42 - 120	10	31
Anthracene	ND		19.8	17.0		ug/L		86	35 - 120	3	35
Atrazine	ND		39.6	36.6		ug/L		92	47 - 121	2	25
Benzaldehyde	ND		39.6	32.5		ug/L		82	46 - 120	9	35
Benzo[a]anthracene	ND		19.8	15.5		ug/L		78	16 - 120	4	35
Benzo[b]fluoranthene	ND		19.8	14.3		ug/L		72	10 - 120	8	35
Benzo[k]fluoranthene	ND		19.8	14.5		ug/L		73	10 - 120	1	35
Benzo[g,h,i]perylene	ND		19.8	12.8		ug/L		65	10 - 120	8	35
Benzo[a]pyrene	ND		19.8	15.1		ug/L		76	10 - 120	11	35
Butyl benzyl phthalate	ND		19.8	18.0		ug/L		91	39 - 120	4	30
1,1'-Biphenyl	ND		19.8	15.3		ug/L		77	45 - 120	5	26
Bis(2-chloroethoxy)methane	ND		19.8	15.1		ug/L		76	44 - 120	9	32
Bis(2-chloroethyl)ether	ND		19.8	14.6		ug/L		74	42 - 120	11	35
Bis(2-ethylhexyl) phthalate	ND		19.8	13.0		ug/L		66	15 - 120	5	35
4-Bromophenyl phenyl ether	ND		19.8	17.0		ug/L		86	41 - 120	2	27
Caprolactam	ND	F1	39.6	4.15	J	ug/L		10	10 - 120	26	33
Carbazole	ND		19.8	17.8		ug/L		90	55 - 120	2	24
4-Chloroaniline	ND		19.8	2.98		ug/L		15	10 - 120	27	35
4-Chloro-3-methylphenol	ND		19.8	15.1		ug/L		76	32 - 120	8	32
2-Chloronaphthalene	ND		19.8	15.3		ug/L		77	42 - 120	8	28
2-Chlorophenol	ND		19.8	13.9		ug/L		70	29 - 120	15	35
4-Chlorophenyl phenyl ether	ND		19.8	16.2		ug/L		82	43 - 120	0	27
Chrysene	ND		19.8	16.5		ug/L		83	14 - 120	8	35
2-Methylnaphthalene	ND		19.8	14.6		ug/L		74	43 - 120	10	30
3 & 4 Methylphenol	ND		19.8	11.5		ug/L		58	15 - 120	19	35
Dibenz(a,h)anthracene	ND		19.8	12.7		ug/L		64	10 - 120	8	35
Dibenzofuran	ND		19.8	16.2		ug/L		82	46 - 120	5	25
3,3'-Dichlorobenzidine	ND		39.6	34.7		ug/L		88	10 - 120	4	35
2,4-Dichlorophenol	ND		19.8	14.9		ug/L		75	19 - 121	12	34
Diethyl phthalate	ND		19.8	17.4		ug/L		88	49 - 120	1	24
2,4-Dimethylphenol	ND		19.8	15.0		ug/L		76	16 - 120	9	35
Dimethyl phthalate	ND		19.8	16.6		ug/L		84	47 - 120	1	24
4,6-Dinitro-2-methylphenol	ND		39.6	26.8		ug/L		68	10 - 120	1	35
2,4-Dinitrophenol	ND		39.6	16.0		ug/L		40	10 - 120	9	35
2,4-Dinitrotoluene	ND		19.8	17.3		ug/L		87	49 - 120	3	26
Di-n-butyl phthalate	ND		19.8	17.4		ug/L		88	42 - 120	1	27
Di-n-octyl phthalate	ND		19.8	11.3		ug/L		57	13 - 120	5	35
Fluoranthene	ND		19.8	17.3		ug/L		87	28 - 120	1	35
Fluorene	ND		19.8	16.6		ug/L		84	36 - 120	3	35
Hexachlorobenzene	ND		19.8	15.3		ug/L		77	31 - 120	3	26
Hexachlorobutadiene	ND		19.8	12.7		ug/L		64	30 - 120	8	35
Hexachlorocyclopentadiene	ND		19.8	11.6		ug/L		58	10 - 120	10	35
Hexachloroethane	ND		19.8	12.4		ug/L		63	12 - 120	10	35
Indeno[1,2,3-cd]pyrene	ND		19.8	12.3		ug/L		62	10 - 120	4	35
Isophorone	ND		19.8	14.5		ug/L		73	45 - 120	8	33
2-Methylphenol	ND		19.8	12.6		ug/L		64	18 - 120	15	35
Naphthalene	ND		19.8	14.4		ug/L		73	32 - 120	10	35
2-Nitroaniline	ND		19.8	16.7		ug/L		85	35 - 120	2	28

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309051

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3-Nitroaniline	ND		19.8	14.3		ug/L		72	10 - 120	8	35
4-Nitroaniline	ND		19.8	16.6		ug/L		84	10 - 120	4	35
Nitrobenzene	ND		19.8	15.1		ug/L		76	48 - 120	7	35
2-Nitrophenol	ND		19.8	12.5		ug/L		63	43 - 120	8	35
4-Nitrophenol	ND		39.6	14.2		ug/L		36	10 - 120	17	35
N-Nitrosodiphenylamine	ND		19.8	17.0		ug/L		86	39 - 120	1	35
N-Nitrosodi-n-propylamine	ND		19.8	14.8		ug/L		74	45 - 120	8	33
2,2'-oxybis[1-chloropropane]	ND		19.8	15.5		ug/L		78	44 - 120	10	34
Pentachlorophenol	ND		39.6	26.8		ug/L		68	20 - 120	2	24
Phenanthrene	ND		19.8	16.6		ug/L		84	36 - 120	0	35
Phenol	ND		19.8	5.76		ug/L		29	10 - 120	22	35
Pyrene	ND		19.8	17.5		ug/L		88	28 - 120	3	35
2,4,5-Trichlorophenol	ND		19.8	15.9		ug/L		80	20 - 120	9	33
2,4,6-Trichlorophenol	ND		19.8	14.1		ug/L		71	40 - 120	9	29
2,6-Dinitrotoluene	ND		19.8	16.6		ug/L		84	48 - 120	0	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	81		38 - 120
2-Fluorophenol (Surr)	48		10 - 120
2,4,6-Tribromophenol (Surr)	82		28 - 120
Nitrobenzene-d5 (Surr)	81		32 - 120
Phenol-d5 (Surr)	31		10 - 120
Terphenyl-d14 (Surr)	82		23 - 127

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-308844/4

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 10:54	1

Lab Sample ID: LCS 240-308844/5

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	835		ug/L		104	80 - 120

Lab Sample ID: LCSD 240-308844/18

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	773		ug/L		97	80 - 120	8	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 308844

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	ND		800	781		ug/L		98	80 - 120

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 308844

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		800	795		ug/L		99	80 - 120	2	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-308869/20-A

Matrix: Water

Analysis Batch: 309174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/22/17 10:06	12/27/17 07:31	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/22/17 10:06	12/27/17 07:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		10 - 120	12/22/17 10:06	12/27/17 07:31	1
Tetrachloro-m-xylene	78		22 - 120	12/22/17 10:06	12/27/17 07:31	1

Lab Sample ID: LCS 240-308869/21-A

Matrix: Water

Analysis Batch: 309174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.88		ug/L		75	28 - 120
Aroclor-1260	2.50	2.23		ug/L		89	30 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	51		10 - 120
Tetrachloro-m-xylene	80		22 - 120

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309174

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	ND		2.38	1.46		ug/L		61	14 - 120
Aroclor-1260	ND		2.38	1.54		ug/L		65	10 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309174

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308869

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	27		10 - 120
Tetrachloro-m-xylene	64		22 - 120

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309174

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	ND		2.38	1.43		ug/L		60	14 - 120	2	30
Aroclor-1260	ND		2.38	1.57		ug/L		66	10 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	31	p	10 - 120
Tetrachloro-m-xylene	62		22 - 120

Lab Sample ID: MB 240-309059/17-A

Matrix: Water

Analysis Batch: 309344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/26/17 09:30	12/28/17 07:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		10 - 120	12/26/17 09:30	12/28/17 07:43	1
Tetrachloro-m-xylene	78		22 - 120	12/26/17 09:30	12/28/17 07:43	1

Lab Sample ID: LCS 240-309059/18-A

Matrix: Water

Analysis Batch: 309344

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.72		ug/L		69	28 - 120
Aroclor-1260	2.50	2.29		ug/L		92	30 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		10 - 120
Tetrachloro-m-xylene	65		22 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-308849/13-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0272	J	0.10	0.020	mg/L	-	12/22/17 08:56	12/22/17 21:50	1

Lab Sample ID: LCS 240-308849/14-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.437		mg/L	-	87	75 - 115

Lab Sample ID: LCSD 240-308849/15-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.452		mg/L	-	90	75 - 115	4	20

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 308957

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.481	0.0379	J F1	mg/L	-	-178	60 - 130

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 308957

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.485	0.407	F2 F1	mg/L	-	-101	60 - 130	166	25

Lab Sample ID: MB 240-309197/15-A

Matrix: Water

Analysis Batch: 309465

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0256	J	0.10	0.020	mg/L	-	12/27/17 07:25	12/28/17 16:07	1

Lab Sample ID: LCS 240-309197/16-A

Matrix: Water

Analysis Batch: 309465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.432		mg/L	-	86	75 - 115

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 240-309197/17-A

Matrix: Water

Analysis Batch: 309465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 309197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.429		mg/L		86	75 - 115	1	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) - RE

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309465

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 309197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28) - RE	0.17	H B	0.980	0.997	H	mg/L		85	60 - 130		

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309465

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 309197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28) - RE	0.17	H B	0.980	0.940	H	mg/L		79	60 - 130	6	25

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-308694/1-A

Matrix: Water

Analysis Batch: 308900

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 308694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	1.3	ug/L		12/21/17 14:00	12/22/17 16:40	1
Aluminum	ND		200	47	ug/L		12/21/17 14:00	12/22/17 16:40	1
Cadmium	ND		5.0	0.20	ug/L		12/21/17 14:00	12/22/17 16:40	1
Chromium	ND		10	0.63	ug/L		12/21/17 14:00	12/22/17 16:40	1
Silver	ND		10	0.62	ug/L		12/21/17 14:00	12/22/17 16:40	1
Arsenic	ND		10	4.1	ug/L		12/21/17 14:00	12/22/17 16:40	1
Beryllium	ND		5.0	0.60	ug/L		12/21/17 14:00	12/22/17 16:40	1
Lead	ND		3.0	2.8	ug/L		12/21/17 14:00	12/22/17 16:40	1
Calcium	ND		5000	310	ug/L		12/21/17 14:00	12/22/17 16:40	1
Cobalt	ND		7.0	0.75	ug/L		12/21/17 14:00	12/22/17 16:40	1
Copper	ND		25	3.5	ug/L		12/21/17 14:00	12/22/17 16:40	1
Iron	ND		100	26	ug/L		12/21/17 14:00	12/22/17 16:40	1
Potassium	ND		5000	560	ug/L		12/21/17 14:00	12/22/17 16:40	1
Magnesium	ND		5000	780	ug/L		12/21/17 14:00	12/22/17 16:40	1
Manganese	ND		15	2.1	ug/L		12/21/17 14:00	12/22/17 16:40	1
Sodium	ND		5000	560	ug/L		12/21/17 14:00	12/22/17 16:40	1
Nickel	ND		40	2.2	ug/L		12/21/17 14:00	12/22/17 16:40	1
Antimony	ND		10	7.5	ug/L		12/21/17 14:00	12/22/17 16:40	1
Vanadium	ND		10	5.6	ug/L		12/21/17 14:00	12/22/17 16:40	1
Zinc	ND		50	9.7	ug/L		12/21/17 14:00	12/22/17 16:40	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-308694/2-A
Matrix: Water
Analysis Batch: 308900

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	2000	1890		ug/L		95	80 - 120
Aluminum	2000	1840		ug/L		92	80 - 120
Cadmium	50.0	48.0		ug/L		96	80 - 120
Chromium	200	186		ug/L		93	80 - 120
Silver	50.0	48.5		ug/L		97	80 - 120
Arsenic	2000	1930		ug/L		96	80 - 120
Beryllium	50.0	46.8		ug/L		94	80 - 120
Lead	500	457		ug/L		91	80 - 120
Calcium	50000	46000		ug/L		92	80 - 120
Cobalt	500	452		ug/L		90	80 - 120
Copper	250	239		ug/L		96	80 - 120
Iron	1000	956		ug/L		96	80 - 120
Potassium	50000	46300		ug/L		93	80 - 120
Magnesium	50000	45600		ug/L		91	80 - 120
Manganese	500	479		ug/L		96	80 - 120
Sodium	50000	47500		ug/L		95	80 - 120
Nickel	500	463		ug/L		93	80 - 120
Antimony	500	480		ug/L		96	80 - 120
Vanadium	500	472		ug/L		94	80 - 120
Zinc	500	461		ug/L		92	80 - 120

Lab Sample ID: 240-89649-3 MS
Matrix: Water
Analysis Batch: 308900

Client Sample ID: AMW-28(20171218)
Prep Type: Dissolved
Prep Batch: 308694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	41	J	2000	1990		ug/L		97	75 - 125
Aluminum	ND		2000	1910		ug/L		95	75 - 125
Cadmium	ND		50.0	49.3		ug/L		99	75 - 125
Chromium	ND		200	189		ug/L		95	75 - 125
Silver	ND		50.0	49.7		ug/L		99	75 - 125
Arsenic	ND		2000	1990		ug/L		100	75 - 125
Beryllium	ND		50.0	48.2		ug/L		96	75 - 125
Lead	ND		500	460		ug/L		92	75 - 125
Calcium	54000		50000	99000		ug/L		91	75 - 125
Cobalt	ND		500	463		ug/L		93	75 - 125
Copper	ND		250	247		ug/L		99	75 - 125
Iron	4700		1000	5340	4	ug/L		68	75 - 125
Potassium	2900	J	50000	50500		ug/L		95	75 - 125
Magnesium	20000		50000	65200		ug/L		91	75 - 125
Manganese	240		500	717		ug/L		96	75 - 125
Sodium	9900		50000	58700		ug/L		98	75 - 125
Nickel	6.0	J	500	476		ug/L		94	75 - 125
Antimony	ND		500	494		ug/L		99	75 - 125
Vanadium	ND		500	486		ug/L		97	75 - 125
Zinc	ND		500	500		ug/L		100	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 308900

Client Sample ID: AMW-28(20171218)

Prep Type: Dissolved

Prep Batch: 308694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	41	J	2000	1950		ug/L		96	75 - 125	2	20
Aluminum	ND		2000	1870		ug/L		93	75 - 125	2	20
Cadmium	ND		50.0	49.4		ug/L		99	75 - 125	0	20
Chromium	ND		200	186		ug/L		93	75 - 125	2	20
Silver	ND		50.0	47.9		ug/L		96	75 - 125	4	20
Arsenic	ND		2000	1990		ug/L		99	75 - 125	0	20
Beryllium	ND		50.0	46.9		ug/L		94	75 - 125	3	20
Lead	ND		500	460		ug/L		92	75 - 125	0	20
Calcium	54000		50000	98300		ug/L		89	75 - 125	1	20
Cobalt	ND		500	465		ug/L		93	75 - 125	0	20
Copper	ND		250	241		ug/L		96	75 - 125	2	20
Iron	4700		1000	5320	4	ug/L		66	75 - 125	0	20
Potassium	2900	J	50000	49700		ug/L		94	75 - 125	2	20
Magnesium	20000		50000	64300		ug/L		89	75 - 125	1	20
Manganese	240		500	714		ug/L		95	75 - 125	0	20
Sodium	9900		50000	57700		ug/L		96	75 - 125	2	20
Nickel	6.0	J	500	479		ug/L		95	75 - 125	1	20
Antimony	ND		500	496		ug/L		99	75 - 125	0	20
Vanadium	ND		500	475		ug/L		95	75 - 125	2	20
Zinc	ND		500	585		ug/L		117	75 - 125	16	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-308694/1-A

Matrix: Water

Analysis Batch: 309038

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 308694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/21/17 14:00	12/22/17 11:17	1
Thallium	ND		1.0	0.20	ug/L		12/21/17 14:00	12/22/17 11:17	1

Lab Sample ID: LCS 240-308694/3-A

Matrix: Water

Analysis Batch: 309038

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 308694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	980		ug/L		98	80 - 120
Thallium	250	273		ug/L		109	80 - 120

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309038

Client Sample ID: AMW-28(20171218)

Prep Type: Dissolved

Prep Batch: 308694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	938		ug/L		94	75 - 125
Thallium	ND		250	260		ug/L		104	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309038

Client Sample ID: AMW-28(20171218)

Prep Type: Dissolved

Prep Batch: 308694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	928		ug/L		93	75 - 125	1	20
Thallium	ND		250	264		ug/L		105	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-308701/1-A

Matrix: Water

Analysis Batch: 309040

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/21/17 14:00	12/22/17 17:29	1

Lab Sample ID: LCS 240-308701/2-A

Matrix: Water

Analysis Batch: 309040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.98		ug/L		120	80 - 120

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309040

Client Sample ID: AMW-28(20171218)

Prep Type: Dissolved

Prep Batch: 308701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND	F1	1.00	1.21	F1	ug/L		121	80 - 120

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309040

Client Sample ID: AMW-28(20171218)

Prep Type: Dissolved

Prep Batch: 308701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	F1	1.00	1.14		ug/L		114	80 - 120	6	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-308702/1-A

Matrix: Water

Analysis Batch: 308747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		12/21/17 11:15	12/21/17 13:08	1

Lab Sample ID: LCS 240-308702/2-A

Matrix: Water

Analysis Batch: 308747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.590		mg/L		99	59 - 129

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-89614-B-2-B MS

Matrix: Water

Analysis Batch: 308747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.0400	0.0464		mg/L		116	22 - 135

Lab Sample ID: 240-89614-B-2-C MSD

Matrix: Water

Analysis Batch: 308747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308702

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide, Total	ND		0.0400	0.0453		mg/L		113	22 - 135	2	40

Lab Sample ID: MRL 240-308747/12

Matrix: Water

Analysis Batch: 308747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00930	J	mg/L		93	70 - 130

Lab Sample ID: MB 240-309588/1-A

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		12/29/17 11:36	12/29/17 12:15	1

Lab Sample ID: LCS 240-309588/2-A

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.606		mg/L		101	59 - 129

Lab Sample ID: 240-89649-3 MS

Matrix: Water

Analysis Batch: 309609

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.0400	0.0418		mg/L		105	22 - 135

Lab Sample ID: 240-89649-3 MSD

Matrix: Water

Analysis Batch: 309609

Client Sample ID: AMW-28(20171218)

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide, Total	ND		0.0400	0.0407		mg/L		102	22 - 135	3	40

Lab Sample ID: MRL 240-309609/12

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0106		mg/L		106	70 - 130

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

GC/MS VOA

Analysis Batch: 309539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	8260B	
240-89649-2	AMW-27(20171218)	Total/NA	Water	8260B	
240-89649-3	AMW-28(20171218)	Total/NA	Water	8260B	
240-89649-4	AMW-29(20171218)	Total/NA	Water	8260B	
240-89649-5	DUP-03(20171218)	Total/NA	Water	8260B	
240-89649-6	AMW-06(20171219)	Total/NA	Water	8260B	
240-89649-7	TRIP BLANK	Total/NA	Water	8260B	
MB 240-309539/7	Method Blank	Total/NA	Water	8260B	
LCS 240-309539/4	Lab Control Sample	Total/NA	Water	8260B	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	8260B	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 308853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	3510C	
240-89649-2	AMW-27(20171218)	Total/NA	Water	3510C	
240-89649-3	AMW-28(20171218)	Total/NA	Water	3510C	
240-89649-4	AMW-29(20171218)	Total/NA	Water	3510C	
240-89649-5	DUP-03(20171218)	Total/NA	Water	3510C	
240-89649-6	AMW-06(20171219)	Total/NA	Water	3510C	
MB 240-308853/9-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308853/10-A	Lab Control Sample	Total/NA	Water	3510C	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	3510C	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	3510C	

Analysis Batch: 309051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	8270C	308853
240-89649-2	AMW-27(20171218)	Total/NA	Water	8270C	308853
240-89649-3	AMW-28(20171218)	Total/NA	Water	8270C	308853
240-89649-4	AMW-29(20171218)	Total/NA	Water	8270C	308853
240-89649-5	DUP-03(20171218)	Total/NA	Water	8270C	308853
240-89649-6	AMW-06(20171219)	Total/NA	Water	8270C	308853
MB 240-308853/9-A	Method Blank	Total/NA	Water	8270C	308853
LCS 240-308853/10-A	Lab Control Sample	Total/NA	Water	8270C	308853
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	8270C	308853
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	8270C	308853

GC VOA

Analysis Batch: 308844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	WI-GRO	
240-89649-2	AMW-27(20171218)	Total/NA	Water	WI-GRO	
240-89649-3	AMW-28(20171218)	Total/NA	Water	WI-GRO	
240-89649-4	AMW-29(20171218)	Total/NA	Water	WI-GRO	
240-89649-5	DUP-03(20171218)	Total/NA	Water	WI-GRO	
240-89649-6	AMW-06(20171219)	Total/NA	Water	WI-GRO	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

GC VOA (Continued)

Analysis Batch: 308844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-308844/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308844/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-308844/18	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	WI-GRO	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 308849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	3510C	
240-89649-2	AMW-27(20171218)	Total/NA	Water	3510C	
240-89649-3	AMW-28(20171218)	Total/NA	Water	3510C	
240-89649-4	AMW-29(20171218)	Total/NA	Water	3510C	
240-89649-5	DUP-03(20171218)	Total/NA	Water	3510C	
240-89649-6	AMW-06(20171219)	Total/NA	Water	3510C	
MB 240-308849/13-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	3510C	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	3510C	

Prep Batch: 308869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	3520C	
240-89649-2	AMW-27(20171218)	Total/NA	Water	3520C	
240-89649-3	AMW-28(20171218)	Total/NA	Water	3520C	
240-89649-4	AMW-29(20171218)	Total/NA	Water	3520C	
240-89649-5	DUP-03(20171218)	Total/NA	Water	3520C	
MB 240-308869/20-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308869/21-A	Lab Control Sample	Total/NA	Water	3520C	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	3520C	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	3520C	

Analysis Batch: 308957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-2	AMW-27(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-3	AMW-28(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-4	AMW-29(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-5	DUP-03(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-6	AMW-06(20171219)	Total/NA	Water	WI-DRO	308849
MB 240-308849/13-A	Method Blank	Total/NA	Water	WI-DRO	308849
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	WI-DRO	308849
LCSD 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308849
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	WI-DRO	308849
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	WI-DRO	308849

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

GC Semi VOA (Continued)

Prep Batch: 309059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-6	AMW-06(20171219)	Total/NA	Water	3520C	
MB 240-309059/17-A	Method Blank	Total/NA	Water	3520C	
LCS 240-309059/18-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 309174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	8082	308869
240-89649-2	AMW-27(20171218)	Total/NA	Water	8082	308869
240-89649-3	AMW-28(20171218)	Total/NA	Water	8082	308869
240-89649-4	AMW-29(20171218)	Total/NA	Water	8082	308869
240-89649-5	DUP-03(20171218)	Total/NA	Water	8082	308869
MB 240-308869/20-A	Method Blank	Total/NA	Water	8082	308869
LCS 240-308869/21-A	Lab Control Sample	Total/NA	Water	8082	308869
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	8082	308869
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	8082	308869

Prep Batch: 309197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3 - RE	AMW-28(20171218)	Total/NA	Water	3510C	
MB 240-309197/15-A	Method Blank	Total/NA	Water	3510C	
LCS 240-309197/16-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-309197/17-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89649-3 MS - RE	AMW-28(20171218)	Total/NA	Water	3510C	
240-89649-3 MSD - RE	AMW-28(20171218)	Total/NA	Water	3510C	

Analysis Batch: 309344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-6	AMW-06(20171219)	Total/NA	Water	8082	309059
MB 240-309059/17-A	Method Blank	Total/NA	Water	8082	309059
LCS 240-309059/18-A	Lab Control Sample	Total/NA	Water	8082	309059

Analysis Batch: 309465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3 - RE	AMW-28(20171218)	Total/NA	Water	WI-DRO	309197
MB 240-309197/15-A	Method Blank	Total/NA	Water	WI-DRO	309197
LCS 240-309197/16-A	Lab Control Sample	Total/NA	Water	WI-DRO	309197
LCSD 240-309197/17-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	309197
240-89649-3 MS - RE	AMW-28(20171218)	Total/NA	Water	WI-DRO	309197
240-89649-3 MSD - RE	AMW-28(20171218)	Total/NA	Water	WI-DRO	309197

Metals

Prep Batch: 308694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Dissolved	Water	3005A	
240-89649-2	AMW-27(20171218)	Dissolved	Water	3005A	
240-89649-3	AMW-28(20171218)	Dissolved	Water	3005A	
240-89649-4	AMW-29(20171218)	Dissolved	Water	3005A	
240-89649-5	DUP-03(20171218)	Dissolved	Water	3005A	
240-89649-6	AMW-06(20171219)	Dissolved	Water	3005A	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Metals (Continued)

Prep Batch: 308694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-308694/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-308694/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-308694/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	3005A	
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	3005A	
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	3005A	
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	3005A	

Prep Batch: 308701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Dissolved	Water	7470A	
240-89649-2	AMW-27(20171218)	Dissolved	Water	7470A	
240-89649-3	AMW-28(20171218)	Dissolved	Water	7470A	
240-89649-4	AMW-29(20171218)	Dissolved	Water	7470A	
240-89649-5	DUP-03(20171218)	Dissolved	Water	7470A	
240-89649-6	AMW-06(20171219)	Dissolved	Water	7470A	
MB 240-308701/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-308701/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	7470A	
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	7470A	

Analysis Batch: 308900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Dissolved	Water	6010B	308694
240-89649-2	AMW-27(20171218)	Dissolved	Water	6010B	308694
240-89649-3	AMW-28(20171218)	Dissolved	Water	6010B	308694
240-89649-4	AMW-29(20171218)	Dissolved	Water	6010B	308694
240-89649-5	DUP-03(20171218)	Dissolved	Water	6010B	308694
240-89649-6	AMW-06(20171219)	Dissolved	Water	6010B	308694
MB 240-308694/1-A	Method Blank	Total Recoverable	Water	6010B	308694
LCS 240-308694/2-A	Lab Control Sample	Total Recoverable	Water	6010B	308694
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	6010B	308694
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	6010B	308694

Analysis Batch: 309038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Dissolved	Water	6020A	308694
240-89649-2	AMW-27(20171218)	Dissolved	Water	6020A	308694
240-89649-3	AMW-28(20171218)	Dissolved	Water	6020A	308694
240-89649-4	AMW-29(20171218)	Dissolved	Water	6020A	308694
240-89649-5	DUP-03(20171218)	Dissolved	Water	6020A	308694
240-89649-6	AMW-06(20171219)	Dissolved	Water	6020A	308694
MB 240-308694/1-A	Method Blank	Total Recoverable	Water	6020A	308694
LCS 240-308694/3-A	Lab Control Sample	Total Recoverable	Water	6020A	308694
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	6020A	308694
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	6020A	308694

Analysis Batch: 309040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Dissolved	Water	7470A	308701
240-89649-2	AMW-27(20171218)	Dissolved	Water	7470A	308701

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Metals (Continued)

Analysis Batch: 309040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3	AMW-28(20171218)	Dissolved	Water	7470A	308701
240-89649-4	AMW-29(20171218)	Dissolved	Water	7470A	308701
240-89649-5	DUP-03(20171218)	Dissolved	Water	7470A	308701
240-89649-6	AMW-06(20171219)	Dissolved	Water	7470A	308701
MB 240-308701/1-A	Method Blank	Total/NA	Water	7470A	308701
LCS 240-308701/2-A	Lab Control Sample	Total/NA	Water	7470A	308701
240-89649-3 MS	AMW-28(20171218)	Dissolved	Water	7470A	308701
240-89649-3 MSD	AMW-28(20171218)	Dissolved	Water	7470A	308701

General Chemistry

Prep Batch: 308702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	9012A	
240-89649-2	AMW-27(20171218)	Total/NA	Water	9012A	
240-89649-4	AMW-29(20171218)	Total/NA	Water	9012A	
240-89649-5	DUP-03(20171218)	Total/NA	Water	9012A	
240-89649-6	AMW-06(20171219)	Total/NA	Water	9012A	
MB 240-308702/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-308702/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89614-B-2-B MS	Matrix Spike	Total/NA	Water	9012A	
240-89614-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 308747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-1	AMW-04(20171218)	Total/NA	Water	9012A	308702
240-89649-2	AMW-27(20171218)	Total/NA	Water	9012A	308702
240-89649-4	AMW-29(20171218)	Total/NA	Water	9012A	308702
240-89649-5	DUP-03(20171218)	Total/NA	Water	9012A	308702
240-89649-6	AMW-06(20171219)	Total/NA	Water	9012A	308702
MB 240-308702/1-A	Method Blank	Total/NA	Water	9012A	308702
LCS 240-308702/2-A	Lab Control Sample	Total/NA	Water	9012A	308702
MRL 240-308747/12	Lab Control Sample	Total/NA	Water	9012A	
240-89614-B-2-B MS	Matrix Spike	Total/NA	Water	9012A	308702
240-89614-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	308702

Prep Batch: 309588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3	AMW-28(20171218)	Total/NA	Water	9012A	
MB 240-309588/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-309588/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	9012A	
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	9012A	

Analysis Batch: 309609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3	AMW-28(20171218)	Total/NA	Water	9012A	309588
MB 240-309588/1-A	Method Blank	Total/NA	Water	9012A	309588
LCS 240-309588/2-A	Lab Control Sample	Total/NA	Water	9012A	309588
MRL 240-309609/12	Lab Control Sample	Total/NA	Water	9012A	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

General Chemistry (Continued)

Analysis Batch: 309609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-3 MS	AMW-28(20171218)	Total/NA	Water	9012A	309588
240-89649-3 MSD	AMW-28(20171218)	Total/NA	Water	9012A	309588

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-04(20171218)

Date Collected: 12/18/17 09:20

Date Received: 12/20/17 10:30

Lab Sample ID: 240-89649-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 12:15	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 16:49	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 12:17	RTR	TAL CAN
Total/NA	Prep	3520C			308869	12/22/17 10:06	WKD	TAL CAN
Total/NA	Analysis	8082		1	309174	12/27/17 11:28	LSH	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/22/17 22:45	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 18:36	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 12:06	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:48	DSH	TAL CAN
Total/NA	Prep	9012A			308702	12/21/17 11:15	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308747	12/21/17 13:36	JESW	TAL CAN

Client Sample ID: AMW-27(20171218)

Date Collected: 12/18/17 11:10

Date Received: 12/20/17 10:30

Lab Sample ID: 240-89649-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 18:19	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 17:13	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 12:58	RTR	TAL CAN
Total/NA	Prep	3520C			308869	12/22/17 10:06	WKD	TAL CAN
Total/NA	Analysis	8082		1	309174	12/27/17 11:47	LSH	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/22/17 23:12	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 18:40	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 12:10	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:50	DSH	TAL CAN
Total/NA	Prep	9012A			308702	12/21/17 11:15	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308747	12/21/17 13:41	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: AMW-28(20171218)

Lab Sample ID: 240-89649-3

Date Collected: 12/18/17 16:10

Matrix: Water

Date Received: 12/20/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 13:01	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 15:36	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 13:39	RTR	TAL CAN
Total/NA	Prep	3520C			308869	12/22/17 10:06	WKD	TAL CAN
Total/NA	Analysis	8082		1	309174	12/27/17 12:07	LSH	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/22/17 23:39	DEB	TAL CAN
Total/NA	Prep	3510C	RE		309197	12/27/17 07:25	BMB	TAL CAN
Total/NA	Analysis	WI-DRO	RE	1	309465	12/28/17 18:49	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 16:49	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 11:26	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:38	DSH	TAL CAN
Total/NA	Prep	9012A			309588	12/29/17 11:36	JESW	TAL CAN
Total/NA	Analysis	9012A		1	309609	12/29/17 12:29	JESW	TAL CAN

Client Sample ID: AMW-29(20171218)

Lab Sample ID: 240-89649-4

Date Collected: 12/18/17 14:30

Matrix: Water

Date Received: 12/20/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 13:23	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 18:25	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 15:43	RTR	TAL CAN
Total/NA	Prep	3520C			308869	12/22/17 10:06	WKD	TAL CAN
Total/NA	Analysis	8082		1	309174	12/27/17 13:05	LSH	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 01:00	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 18:45	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 12:15	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:52	DSH	TAL CAN
Total/NA	Prep	9012A			308702	12/21/17 11:15	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308747	12/21/17 13:43	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: DUP-03(20171218)

Lab Sample ID: 240-89649-5

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 13:46	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 18:49	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 16:24	RTR	TAL CAN
Total/NA	Prep	3520C			308869	12/22/17 10:06	WKD	TAL CAN
Total/NA	Analysis	8082		1	309174	12/27/17 14:25	LSH	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 01:28	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 18:50	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 12:19	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:54	DSH	TAL CAN
Total/NA	Prep	9012A			308702	12/21/17 11:15	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308747	12/21/17 13:45	JESW	TAL CAN

Client Sample ID: AMW-06(20171219)

Lab Sample ID: 240-89649-6

Date Collected: 12/19/17 12:40

Matrix: Water

Date Received: 12/20/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.33	309539	12/29/17 14:08	HMB	TAL CAN
Total/NA	Prep	3510C			308853	12/22/17 09:09	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 19:13	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 17:04	RTR	TAL CAN
Total/NA	Prep	3520C			309059	12/26/17 09:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	309344	12/28/17 12:56	CSC	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 01:55	DEB	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308900	12/22/17 18:54	KLC	TAL CAN
Dissolved	Prep	3005A			308694	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309038	12/22/17 12:24	AS1	TAL CAN
Dissolved	Prep	7470A			308701	12/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309040	12/22/17 17:56	DSH	TAL CAN
Total/NA	Prep	9012A			308702	12/21/17 11:15	JESW	TAL CAN
Total/NA	Analysis	9012A		1	308747	12/21/17 13:47	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89649-7

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309539	12/29/17 14:31	HMB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89649-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

4.2/3.9 4.8/4.5
1.2/0.9 5.0/4.7
4.0/3.7

Chain of Custody Record

TestAmerica Laboratory location: N.Canton — 4101 Shuffel Street NW/ North Canton, OH 44720 / 330-497-9396

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THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

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Login # : 89649

TestAmerica Canton Sample Receipt Form/Narrative

Canton Facility

Client Arceadis Site Name _____

Cooler unpacked by: _____

Cooler Received on 12/20/17 Opened on 12/20/17Garry BurnsFedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other MultiplePacking material used: Bubble Wrap Foam Plastic Bag None Other _____COOLANT: Wet Ice Blue Ice Dry Ice Water None☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
- IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each Yes Yes No NA
- Were the seals on the outside of the cooler(s) signed & dated? Yes Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes Yes No NA4. Did custody papers accompany the sample(s)? Yes Yes No NA5. Were the custody papers relinquished & signed in the appropriate place? Yes Yes No NA6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes Yes No NA7. Did all bottles arrive in good condition (Unbroken)? Yes Yes No NA8. Could all bottle labels be reconciled with the COC? Yes Yes No NA9. Were correct bottle(s) used for the test(s) indicated? Yes Yes No NA10. Sufficient quantity received to perform indicated analyses? Yes Yes No NA11. Are these work share samples? Yes Yes No NA

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? Yes Yes No NA13. Were VOAs on the COC? Yes Yes No NA14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes Yes No NA15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 56134 Yes Yes No NA16. Was a LL Hg or Me Hg trip blank present? Yes Yes No NA

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

Amw-28 (1x40) GRO rec'd empty, 12 DRO rec'd w/ pH
of 5-lab to further preserve
Rec'd 4x40 Trip Blanks in coolers w/ Amw-28 - with
log (not on COC)
Amw-29 (1x40) GRO rec'd empty.

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

WI-NC-099

[illegible]

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
AMW-04(20171218)	240-89649-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-04(20171218)	240-89649-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-04(20171218)	240-89649-M-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-04(20171218)	240-89649-N-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-27(20171218)	240-89649-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-27(20171218)	240-89649-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-27(20171218)	240-89649-M-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-27(20171218)	240-89649-N-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-AJ-3	Amber Glass 1 liter - Hydrochloric	5	_____	_____
AMW-28(20171218)	240-89649-AK-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-AL-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-AM-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-AN-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-AO-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-28(20171218)	240-89649-R-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-28(20171218)	240-89649-S-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-28(20171218)	240-89649-T-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-28(20171218)	240-89649-U-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-28(20171218)	240-89649-V-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-28(20171218)	240-89649-W-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-29(20171218)	240-89649-G-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-29(20171218)	240-89649-H-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-29(20171218)	240-89649-M-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-29(20171218)	240-89649-N-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-03(20171218)	240-89649-G-5	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
DUP-03(20171218)	240-89649-H-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
DUP-03(20171218)	240-89649-M-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-03(20171218)	240-89649-N-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-06(20171219)	240-89649-G-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-06(20171219)	240-89649-H-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-06(20171219)	240-89649-M-6	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-06(20171219)	240-89649-N-6	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89734-1

Client Project/Site: Ford TCAP - E200572

For:

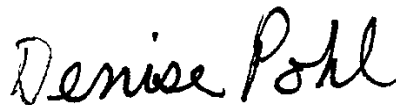
ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

1/8/2018 4:06:27 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Job ID: 240-89734-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89734-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/21/2017 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.1° C, 3.1° C and 5.3° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2), AMW-02 (20171219) (240-89734-3) and TRIP BLANKS (240-89734-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/30/2017.

1,1,2-Trichloroethane, 1,1-Dichloroethene, Bromomethane, Chloroethane, Dichlorofluoromethane and Ethyl ether failed the recovery criteria high for LCS 240-309677/4. Refer to the QC report for details.

1,1,2,2-Tetrachloroethane and Ethyl ether failed the recovery criteria high for the MS of sample AMW-02 (20171219)MS (240-89734-3) in batch 240-309677. 1,1,2,2-Tetrachloroethane and Ethyl ether failed the recovery criteria high for the MSD of sample AMW-02 (20171219)MSD (240-89734-3) in batch 240-309677. Several analytes exceeded the RPD limit. Refer to the QC report for details.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 309677 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Job ID: 240-89734-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

reported. The following samples are impacted: AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2), AMW-02 (20171219) (240-89734-3) and TRIP BLANKS (240-89734-4).

Method(s) 8260B: The laboratory control sample (LCS) for 309677 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2), AMW-02 (20171219) (240-89734-3), TRIP BLANKS (240-89734-4) and (LCS 240-309677/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/26/2017 and analyzed on 12/27/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Diethyl phthalate was detected in method blank MB 240-309044/9-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309044.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/22/2017 and analyzed on 12/23/2017 and 12/26/2017.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-308849/13-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample AMW-31 (20171220) (240-89734-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) WI-DRO: Significant peaks, readily distinguished from background, were detected in the following sample within five minutes after the end of the analytical window defined by the last component eluting in the WI Diesel Range Organics (C10-C28) mix : AMW-31 (20171220) (240-89734-2).

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309223.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 12/22/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Job ID: 240-89734-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/26/2017 and 12/27/2017 and analyzed on 01/06/2018, 12/28/2017 and 12/29/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Sample AMW-31 (20171220) (240-89734-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-02 (20171219) (240-89734-3).

3414954
3154250
3361891

Method(s) 8082: Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-1 0.53mm ID: (LCS 240-309059/18-A). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-30 (20171220) (240-89734-1).

3414954
3154250
3361891

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-31 (20171220) (240-89734-2). 3414953

3154251
3361890

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: AMW-31 (20171220) (240-89734-2). Elevated reporting limits (RLs) are provided.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309059.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/22/2017 and analyzed on 12/26/2017.

Aluminum and Iron failed the recovery criteria low for the MS of sample AMW-30 (20171220)MS (240-89734-1) in batch 240-309208. Aluminum failed the recovery criteria low for the MSD of sample AMW-30 (20171220)MSD (240-89734-1) in batch 240-309208. Refer to the QC report for details.

Method(s) 200.7 Rev 4.4, 6010B, 6010C: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Job ID: 240-89734-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/22/2017 and analyzed on 12/26/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/22/2017 and analyzed on 12/26/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-30 (20171220) (240-89734-1), AMW-31 (20171220) (240-89734-2) and AMW-02 (20171219) (240-89734-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 12/29/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89734-1	AMW-30 (20171220)	Water	12/20/17 11:42	12/21/17 10:45
240-89734-2	AMW-31 (20171220)	Water	12/20/17 13:00	12/21/17 10:45
240-89734-3	AMW-02 (20171219)	Water	12/19/17 16:40	12/21/17 10:45
240-89734-4	TRIP BLANKS	Water	12/19/17 00:00	12/21/17 10:45

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.7	J	10	1.8	ug/L	1			8260B	Total/NA
Tetrachloroethene	0.72	J	1.0	0.30	ug/L	1			8260B	Total/NA
Trichloroethene	34		1.0	0.33	ug/L	1			8260B	Total/NA
Caprolactam	1.5	J	4.8	0.19	ug/L	1			8270C	Total/NA
Diethyl phthalate	0.85	J B	1.9	0.58	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	0.23	B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	14	J	200	1.3	ug/L	1			6010B	Dissolved
Aluminum	33000		200	47	ug/L	1			6010B	Dissolved
Cadmium	0.44	J	5.0	0.20	ug/L	1			6010B	Dissolved
Chromium	6.5	J	10	0.63	ug/L	1			6010B	Dissolved
Beryllium	3.5	J	5.0	0.60	ug/L	1			6010B	Dissolved
Calcium	67000		5000	310	ug/L	1			6010B	Dissolved
Cobalt	40		7.0	0.75	ug/L	1			6010B	Dissolved
Copper	180		25	3.5	ug/L	1			6010B	Dissolved
Iron	5300		100	26	ug/L	1			6010B	Dissolved
Potassium	13000		5000	560	ug/L	1			6010B	Dissolved
Magnesium	30000		5000	780	ug/L	1			6010B	Dissolved
Manganese	640		15	2.1	ug/L	1			6010B	Dissolved
Sodium	19000		5000	560	ug/L	1			6010B	Dissolved
Nickel	220		40	2.2	ug/L	1			6010B	Dissolved
Zinc	92		50	9.7	ug/L	1			6010B	Dissolved
Selenium	4.1	J	5.0	0.89	ug/L	1			6020A	Dissolved
Thallium	5.8		1.0	0.20	ug/L	1			6020A	Dissolved

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.0	J	10	1.8	ug/L	1			8260B	Total/NA
Caprolactam	2.3	J	4.8	0.19	ug/L	1			8270C	Total/NA
Diethyl phthalate	0.68	J B	1.9	0.58	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	2.2	B	0.48	0.095	mg/L	5			WI-DRO	Total/NA
Barium	81	J	200	1.3	ug/L	1			6010B	Dissolved
Cadmium	0.23	J	5.0	0.20	ug/L	1			6010B	Dissolved
Calcium	87000		5000	310	ug/L	1			6010B	Dissolved
Iron	1100		100	26	ug/L	1			6010B	Dissolved
Potassium	6300		5000	560	ug/L	1			6010B	Dissolved
Magnesium	25000		5000	780	ug/L	1			6010B	Dissolved
Manganese	790		15	2.1	ug/L	1			6010B	Dissolved
Sodium	160000		5000	560	ug/L	1			6010B	Dissolved
Nickel	2.4	J	40	2.2	ug/L	1			6010B	Dissolved
Vanadium	8.8	J	10	5.6	ug/L	1			6010B	Dissolved

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.8	ug/L	1			8260B	Total/NA
Diethyl phthalate	0.82	J B	1.9	0.57	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	0.17	B	0.097	0.019	mg/L	1			WI-DRO	Total/NA
Barium	73	J	200	1.3	ug/L	1			6010B	Dissolved
Cadmium	0.25	J	5.0	0.20	ug/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219) (Continued)

Lab Sample ID: 240-89734-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	83000		5000	310	ug/L	1		6010B	Dissolved
Iron	5400		100	26	ug/L	1		6010B	Dissolved
Potassium	3300	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	42000		5000	780	ug/L	1		6010B	Dissolved
Manganese	120		15	2.1	ug/L	1		6010B	Dissolved
Sodium	30000		5000	560	ug/L	1		6010B	Dissolved

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-89734-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Date Collected: 12/20/17 11:42

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/30/17 14:58	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/30/17 14:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/30/17 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/30/17 14:58	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			12/30/17 14:58	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/30/17 14:58	1
1,1-Dichloroethene	ND	*	1.0	0.27	ug/L			12/30/17 14:58	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/30/17 14:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/30/17 14:58	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/30/17 14:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/30/17 14:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 14:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/30/17 14:58	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/30/17 14:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/30/17 14:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/30/17 14:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 14:58	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/30/17 14:58	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/30/17 14:58	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/30/17 14:58	1
Allyl chloride	ND		2.0	0.38	ug/L			12/30/17 14:58	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/30/17 14:58	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/30/17 14:58	1
2-Hexanone	ND		10	1.2	ug/L			12/30/17 14:58	1
Bromobenzene	ND		1.0	0.31	ug/L			12/30/17 14:58	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/30/17 14:58	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/30/17 14:58	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/30/17 14:58	1
Acetone	3.7	J	10	1.8	ug/L			12/30/17 14:58	1
Benzene	ND		1.0	0.28	ug/L			12/30/17 14:58	1
Bromoform	ND		1.0	0.43	ug/L			12/30/17 14:58	1
Bromomethane	ND	*	1.0	0.42	ug/L			12/30/17 14:58	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/30/17 14:58	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/30/17 14:58	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/30/17 14:58	1
Chloroethane	ND	*	1.0	0.41	ug/L			12/30/17 14:58	1
Chloroform	ND		1.0	0.31	ug/L			12/30/17 14:58	1
Chloromethane	ND		1.0	0.43	ug/L			12/30/17 14:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/30/17 14:58	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/30/17 14:58	1
Cyclohexane	ND		1.0	0.44	ug/L			12/30/17 14:58	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/30/17 14:58	1
Dibromomethane	ND		1.0	0.46	ug/L			12/30/17 14:58	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/30/17 14:58	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/30/17 14:58	1
Dichlorofluoromethane	ND	*	2.0	0.43	ug/L			12/30/17 14:58	1
Ethyl ether	ND	*	2.0	0.35	ug/L			12/30/17 14:58	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/30/17 14:58	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/30/17 14:58	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Date Collected: 12/20/17 11:42

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/30/17 14:58	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/30/17 14:58	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/30/17 14:58	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/30/17 14:58	1
Methyl acetate	ND		10	1.4	ug/L			12/30/17 14:58	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/30/17 14:58	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/30/17 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/30/17 14:58	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/30/17 14:58	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/30/17 14:58	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/30/17 14:58	1
o-Xylene	ND		1.0	0.28	ug/L			12/30/17 14:58	1
Styrene	ND		1.0	0.23	ug/L			12/30/17 14:58	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/30/17 14:58	1
Tetrachloroethene	0.72	J	1.0	0.30	ug/L			12/30/17 14:58	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/30/17 14:58	1
Toluene	ND		1.0	0.23	ug/L			12/30/17 14:58	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/30/17 14:58	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/30/17 14:58	1
Trichloroethene	34		1.0	0.33	ug/L			12/30/17 14:58	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/30/17 14:58	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/30/17 14:58	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/30/17 14:58	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/30/17 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 138		12/30/17 14:58	1
4-Bromofluorobenzene (Surr)	87		69 - 120		12/30/17 14:58	1
Toluene-d8 (Surr)	91		73 - 120		12/30/17 14:58	1
Dibromofluoromethane (Surr)	106		69 - 124		12/30/17 14:58	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:10	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/26/17 08:22	12/27/17 12:10	1
Acetophenone	ND		0.96	0.33	ug/L		12/26/17 08:22	12/27/17 12:10	1
Anthracene	ND		0.19	0.085	ug/L		12/26/17 08:22	12/27/17 12:10	1
Atrazine	ND		1.9	0.33	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/26/17 08:22	12/27/17 12:10	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/26/17 08:22	12/27/17 12:10	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/26/17 08:22	12/27/17 12:10	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/26/17 08:22	12/27/17 12:10	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/26/17 08:22	12/27/17 12:10	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/26/17 08:22	12/27/17 12:10	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:10	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Date Collected: 12/20/17 11:42

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	1.5	J	4.8	0.19	ug/L		12/26/17 08:22	12/27/17 12:10	1
Carbazole	ND		0.96	0.27	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/26/17 08:22	12/27/17 12:10	1
Chrysene	ND		0.19	0.048	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/26/17 08:22	12/27/17 12:10	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/26/17 08:22	12/27/17 12:10	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:10	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/26/17 08:22	12/27/17 12:10	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/26/17 08:22	12/27/17 12:10	1
Diethyl phthalate	0.85	J B	1.9	0.58	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/26/17 08:22	12/27/17 12:10	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/26/17 08:22	12/27/17 12:10	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/26/17 08:22	12/27/17 12:10	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:10	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/26/17 08:22	12/27/17 12:10	1
Fluoranthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:10	1
Fluorene	ND		0.19	0.039	ug/L		12/26/17 08:22	12/27/17 12:10	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/26/17 08:22	12/27/17 12:10	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/26/17 08:22	12/27/17 12:10	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/26/17 08:22	12/27/17 12:10	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/26/17 08:22	12/27/17 12:10	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/26/17 08:22	12/27/17 12:10	1
Isophorone	ND		0.96	0.26	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/26/17 08:22	12/27/17 12:10	1
Naphthalene	ND		0.19	0.060	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:10	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:10	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/26/17 08:22	12/27/17 12:10	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:10	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/26/17 08:22	12/27/17 12:10	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/26/17 08:22	12/27/17 12:10	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/26/17 08:22	12/27/17 12:10	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/26/17 08:22	12/27/17 12:10	1
Phenanthrene	ND		0.19	0.060	ug/L		12/26/17 08:22	12/27/17 12:10	1
Phenol	ND		0.96	0.58	ug/L		12/26/17 08:22	12/27/17 12:10	1
Pyrene	ND		0.19	0.040	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/26/17 08:22	12/27/17 12:10	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/26/17 08:22	12/27/17 12:10	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Date Collected: 12/20/17 11:42

Matrix: Water

Date Received: 12/21/17 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	100		38 - 120	12/26/17 08:22	12/27/17 12:10	1
2-Fluorophenol (Surr)	51		10 - 120	12/26/17 08:22	12/27/17 12:10	1
2,4,6-Tribromophenol (Surr)	107		28 - 120	12/26/17 08:22	12/27/17 12:10	1
Nitrobenzene-d5 (Surr)	85		32 - 120	12/26/17 08:22	12/27/17 12:10	1
Phenol-d5 (Surr)	31		10 - 120	12/26/17 08:22	12/27/17 12:10	1
Terphenyl-d14 (Surr)	75		23 - 127	12/26/17 08:22	12/27/17 12:10	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 18:26	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/27/17 09:12	12/29/17 10:49	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/27/17 09:12	12/29/17 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	10		10 - 120	12/27/17 09:12	12/29/17 10:49	1
Tetrachloro-m-xylene	65		22 - 120	12/27/17 09:12	12/29/17 10:49	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.23	B	0.095	0.019	mg/L		12/22/17 08:56	12/23/17 03:16	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	14	J	200	1.3	ug/L		12/22/17 14:00	12/26/17 17:41	1
Aluminum	33000		200	47	ug/L		12/22/17 14:00	12/26/17 17:41	1
Cadmium	0.44	J	5.0	0.20	ug/L		12/22/17 14:00	12/26/17 17:41	1
Chromium	6.5	J	10	0.63	ug/L		12/22/17 14:00	12/26/17 17:41	1
Silver	ND		10	0.62	ug/L		12/22/17 14:00	12/26/17 17:41	1
Arsenic	ND		10	4.1	ug/L		12/22/17 14:00	12/26/17 17:41	1
Beryllium	3.5	J	5.0	0.60	ug/L		12/22/17 14:00	12/26/17 17:41	1
Lead	ND		3.0	2.8	ug/L		12/22/17 14:00	12/26/17 17:41	1
Calcium	67000		5000	310	ug/L		12/22/17 14:00	12/26/17 17:41	1
Cobalt	40		7.0	0.75	ug/L		12/22/17 14:00	12/26/17 17:41	1
Copper	180		25	3.5	ug/L		12/22/17 14:00	12/26/17 17:41	1
Iron	5300		100	26	ug/L		12/22/17 14:00	12/26/17 17:41	1
Potassium	13000		5000	560	ug/L		12/22/17 14:00	12/26/17 17:41	1
Magnesium	30000		5000	780	ug/L		12/22/17 14:00	12/26/17 17:41	1
Manganese	640		15	2.1	ug/L		12/22/17 14:00	12/26/17 17:41	1
Sodium	19000		5000	560	ug/L		12/22/17 14:00	12/26/17 17:41	1
Nickel	220		40	2.2	ug/L		12/22/17 14:00	12/26/17 17:41	1
Antimony	ND		10	7.5	ug/L		12/22/17 14:00	12/26/17 17:41	1
Vanadium	ND		10	5.6	ug/L		12/22/17 14:00	12/26/17 17:41	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Lab Sample ID: 240-89734-1

Date Collected: 12/20/17 11:42

Matrix: Water

Date Received: 12/21/17 10:45

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	92		50	9.7	ug/L	-	12/22/17 14:00	12/26/17 17:41	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	4.1	J	5.0	0.89	ug/L	-	12/22/17 14:00	12/26/17 17:00	1
Thallium	5.8		1.0	0.20	ug/L	-	12/22/17 14:00	12/26/17 17:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/22/17 14:00	12/26/17 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/29/17 11:36	12/29/17 12:56	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Date Collected: 12/20/17 13:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/30/17 15:21	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/30/17 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/30/17 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/30/17 15:21	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			12/30/17 15:21	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/30/17 15:21	1
1,1-Dichloroethene	ND	*	1.0	0.27	ug/L			12/30/17 15:21	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/30/17 15:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/30/17 15:21	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/30/17 15:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/30/17 15:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 15:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/30/17 15:21	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/30/17 15:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/30/17 15:21	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/30/17 15:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 15:21	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/30/17 15:21	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/30/17 15:21	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/30/17 15:21	1
Allyl chloride	ND		2.0	0.38	ug/L			12/30/17 15:21	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/30/17 15:21	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/30/17 15:21	1
2-Hexanone	ND		10	1.2	ug/L			12/30/17 15:21	1
Bromobenzene	ND		1.0	0.31	ug/L			12/30/17 15:21	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/30/17 15:21	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/30/17 15:21	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/30/17 15:21	1
Acetone	2.0	J	10	1.8	ug/L			12/30/17 15:21	1
Benzene	ND		1.0	0.28	ug/L			12/30/17 15:21	1
Bromoform	ND		1.0	0.43	ug/L			12/30/17 15:21	1
Bromomethane	ND	*	1.0	0.42	ug/L			12/30/17 15:21	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/30/17 15:21	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/30/17 15:21	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/30/17 15:21	1
Chloroethane	ND	*	1.0	0.41	ug/L			12/30/17 15:21	1
Chloroform	ND		1.0	0.31	ug/L			12/30/17 15:21	1
Chloromethane	ND		1.0	0.43	ug/L			12/30/17 15:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/30/17 15:21	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/30/17 15:21	1
Cyclohexane	ND		1.0	0.44	ug/L			12/30/17 15:21	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/30/17 15:21	1
Dibromomethane	ND		1.0	0.46	ug/L			12/30/17 15:21	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/30/17 15:21	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/30/17 15:21	1
Dichlorofluoromethane	ND	*	2.0	0.43	ug/L			12/30/17 15:21	1
Ethyl ether	ND	*	2.0	0.35	ug/L			12/30/17 15:21	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/30/17 15:21	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/30/17 15:21	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Date Collected: 12/20/17 13:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/30/17 15:21	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/30/17 15:21	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/30/17 15:21	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/30/17 15:21	1
Methyl acetate	ND		10	1.4	ug/L			12/30/17 15:21	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/30/17 15:21	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/30/17 15:21	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/30/17 15:21	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/30/17 15:21	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/30/17 15:21	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/30/17 15:21	1
o-Xylene	ND		1.0	0.28	ug/L			12/30/17 15:21	1
Styrene	ND		1.0	0.23	ug/L			12/30/17 15:21	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/30/17 15:21	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/30/17 15:21	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/30/17 15:21	1
Toluene	ND		1.0	0.23	ug/L			12/30/17 15:21	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/30/17 15:21	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/30/17 15:21	1
Trichloroethene	ND		1.0	0.33	ug/L			12/30/17 15:21	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/30/17 15:21	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/30/17 15:21	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/30/17 15:21	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/30/17 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		61 - 138		12/30/17 15:21	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/30/17 15:21	1
Toluene-d8 (Surr)	92		73 - 120		12/30/17 15:21	1
Dibromofluoromethane (Surr)	110		69 - 124		12/30/17 15:21	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:34	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/26/17 08:22	12/27/17 12:34	1
Acetophenone	ND		0.96	0.33	ug/L		12/26/17 08:22	12/27/17 12:34	1
Anthracene	ND		0.19	0.085	ug/L		12/26/17 08:22	12/27/17 12:34	1
Atrazine	ND		1.9	0.33	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/26/17 08:22	12/27/17 12:34	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/26/17 08:22	12/27/17 12:34	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/26/17 08:22	12/27/17 12:34	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/26/17 08:22	12/27/17 12:34	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/26/17 08:22	12/27/17 12:34	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/26/17 08:22	12/27/17 12:34	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:34	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Date Collected: 12/20/17 13:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	2.3	J	4.8	0.19	ug/L		12/26/17 08:22	12/27/17 12:34	1
Carbazole	ND		0.96	0.27	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/26/17 08:22	12/27/17 12:34	1
Chrysene	ND		0.19	0.048	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/26/17 08:22	12/27/17 12:34	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/26/17 08:22	12/27/17 12:34	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:34	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/26/17 08:22	12/27/17 12:34	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/26/17 08:22	12/27/17 12:34	1
Diethyl phthalate	0.68	J B	1.9	0.58	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/26/17 08:22	12/27/17 12:34	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/26/17 08:22	12/27/17 12:34	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/26/17 08:22	12/27/17 12:34	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:34	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/26/17 08:22	12/27/17 12:34	1
Fluoranthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:34	1
Fluorene	ND		0.19	0.039	ug/L		12/26/17 08:22	12/27/17 12:34	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/26/17 08:22	12/27/17 12:34	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/26/17 08:22	12/27/17 12:34	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/26/17 08:22	12/27/17 12:34	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/26/17 08:22	12/27/17 12:34	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/26/17 08:22	12/27/17 12:34	1
Isophorone	ND		0.96	0.26	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/26/17 08:22	12/27/17 12:34	1
Naphthalene	ND		0.19	0.060	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:34	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:34	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/26/17 08:22	12/27/17 12:34	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:34	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/26/17 08:22	12/27/17 12:34	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/26/17 08:22	12/27/17 12:34	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/26/17 08:22	12/27/17 12:34	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/26/17 08:22	12/27/17 12:34	1
Phenanthrene	ND		0.19	0.060	ug/L		12/26/17 08:22	12/27/17 12:34	1
Phenol	ND		0.96	0.58	ug/L		12/26/17 08:22	12/27/17 12:34	1
Pyrene	ND		0.19	0.040	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/26/17 08:22	12/27/17 12:34	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/26/17 08:22	12/27/17 12:34	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Date Collected: 12/20/17 13:00

Matrix: Water

Date Received: 12/21/17 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	90		38 - 120	12/26/17 08:22	12/27/17 12:34	1
2-Fluorophenol (Surr)	42		10 - 120	12/26/17 08:22	12/27/17 12:34	1
2,4,6-Tribromophenol (Surr)	102		28 - 120	12/26/17 08:22	12/27/17 12:34	1
Nitrobenzene-d5 (Surr)	74		32 - 120	12/26/17 08:22	12/27/17 12:34	1
Phenol-d5 (Surr)	28		10 - 120	12/26/17 08:22	12/27/17 12:34	1
Terphenyl-d14 (Surr)	77		23 - 127	12/26/17 08:22	12/27/17 12:34	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 19:07	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		1.9	0.48	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1221	ND		1.9	0.86	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1232	ND		1.9	0.67	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1242	ND		1.9	0.57	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1248	ND		1.9	0.48	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1254	ND		1.9	0.29	ug/L		12/27/17 09:12	01/06/18 05:38	10
Aroclor-1260	ND		1.9	0.38	ug/L		12/27/17 09:12	01/06/18 05:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		10 - 120	12/27/17 09:12	01/06/18 05:38	10
Tetrachloro-m-xylene	56		22 - 120	12/27/17 09:12	01/06/18 05:38	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.2	B	0.48	0.095	mg/L		12/22/17 08:56	12/26/17 19:10	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	81	J	200	1.3	ug/L		12/22/17 14:00	12/26/17 18:55	1
Aluminum	ND		200	47	ug/L		12/22/17 14:00	12/26/17 18:55	1
Cadmium	0.23	J	5.0	0.20	ug/L		12/22/17 14:00	12/26/17 18:55	1
Chromium	ND		10	0.63	ug/L		12/22/17 14:00	12/26/17 18:55	1
Silver	ND		10	0.62	ug/L		12/22/17 14:00	12/26/17 18:55	1
Arsenic	ND		10	4.1	ug/L		12/22/17 14:00	12/26/17 18:55	1
Beryllium	ND		5.0	0.60	ug/L		12/22/17 14:00	12/26/17 18:55	1
Lead	ND		3.0	2.8	ug/L		12/22/17 14:00	12/26/17 18:55	1
Calcium	87000		5000	310	ug/L		12/22/17 14:00	12/26/17 18:55	1
Cobalt	ND		7.0	0.75	ug/L		12/22/17 14:00	12/26/17 18:55	1
Copper	ND		25	3.5	ug/L		12/22/17 14:00	12/26/17 18:55	1
Iron	1100		100	26	ug/L		12/22/17 14:00	12/26/17 18:55	1
Potassium	6300		5000	560	ug/L		12/22/17 14:00	12/26/17 18:55	1
Magnesium	25000		5000	780	ug/L		12/22/17 14:00	12/26/17 18:55	1
Manganese	790		15	2.1	ug/L		12/22/17 14:00	12/26/17 18:55	1
Sodium	160000		5000	560	ug/L		12/22/17 14:00	12/26/17 18:55	1
Nickel	2.4	J	40	2.2	ug/L		12/22/17 14:00	12/26/17 18:55	1
Antimony	ND		10	7.5	ug/L		12/22/17 14:00	12/26/17 18:55	1
Vanadium	8.8	J	10	5.6	ug/L		12/22/17 14:00	12/26/17 18:55	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-31 (20171220)

Lab Sample ID: 240-89734-2

Date Collected: 12/20/17 13:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/22/17 14:00	12/26/17 18:55	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/22/17 14:00	12/26/17 17:35	1
Thallium	ND		1.0	0.20	ug/L	-	12/22/17 14:00	12/26/17 17:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/22/17 14:00	12/26/17 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/29/17 11:36	12/29/17 12:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/30/17 15:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/30/17 15:44	1
1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.32	ug/L			12/30/17 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/30/17 15:44	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			12/30/17 15:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/30/17 15:44	1
1,1-Dichloroethene	ND	*	1.0	0.27	ug/L			12/30/17 15:44	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/30/17 15:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/30/17 15:44	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/30/17 15:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/30/17 15:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 15:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/30/17 15:44	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/30/17 15:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/30/17 15:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/30/17 15:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 15:44	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/30/17 15:44	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/30/17 15:44	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/30/17 15:44	1
Allyl chloride	ND		2.0	0.38	ug/L			12/30/17 15:44	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/30/17 15:44	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/30/17 15:44	1
2-Hexanone	ND		10	1.2	ug/L			12/30/17 15:44	1
Bromobenzene	ND		1.0	0.31	ug/L			12/30/17 15:44	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/30/17 15:44	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/30/17 15:44	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/30/17 15:44	1
Acetone	2.3	J	10	1.8	ug/L			12/30/17 15:44	1
Benzene	ND		1.0	0.28	ug/L			12/30/17 15:44	1
Bromoform	ND		1.0	0.43	ug/L			12/30/17 15:44	1
Bromomethane	ND	*	1.0	0.42	ug/L			12/30/17 15:44	1
Carbon disulfide	ND	F2	1.0	0.34	ug/L			12/30/17 15:44	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/30/17 15:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/30/17 15:44	1
Chloroethane	ND	F2 *	1.0	0.41	ug/L			12/30/17 15:44	1
Chloroform	ND		1.0	0.31	ug/L			12/30/17 15:44	1
Chloromethane	ND	F2	1.0	0.43	ug/L			12/30/17 15:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/30/17 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/30/17 15:44	1
Cyclohexane	ND		1.0	0.44	ug/L			12/30/17 15:44	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/30/17 15:44	1
Dibromomethane	ND		1.0	0.46	ug/L			12/30/17 15:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/30/17 15:44	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/30/17 15:44	1
Dichlorofluoromethane	ND	F2 *	2.0	0.43	ug/L			12/30/17 15:44	1
Ethyl ether	ND	F1 *	2.0	0.35	ug/L			12/30/17 15:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/30/17 15:44	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/30/17 15:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/30/17 15:44	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/30/17 15:44	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/30/17 15:44	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/30/17 15:44	1
Methyl acetate	ND		10	1.4	ug/L			12/30/17 15:44	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/30/17 15:44	1
2-Butanone (MEK)	ND	F2	10	1.0	ug/L			12/30/17 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/30/17 15:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/30/17 15:44	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/30/17 15:44	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/30/17 15:44	1
o-Xylene	ND		1.0	0.28	ug/L			12/30/17 15:44	1
Styrene	ND		1.0	0.23	ug/L			12/30/17 15:44	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/30/17 15:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/30/17 15:44	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/30/17 15:44	1
Toluene	ND		1.0	0.23	ug/L			12/30/17 15:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/30/17 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/30/17 15:44	1
Trichloroethene	ND		1.0	0.33	ug/L			12/30/17 15:44	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/30/17 15:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/30/17 15:44	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/30/17 15:44	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/30/17 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		61 - 138		12/30/17 15:44	1
4-Bromofluorobenzene (Surr)	74		69 - 120		12/30/17 15:44	1
Toluene-d8 (Surr)	88		73 - 120		12/30/17 15:44	1
Dibromofluoromethane (Surr)	109		69 - 124		12/30/17 15:44	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/26/17 08:22	12/27/17 12:58	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/26/17 08:22	12/27/17 12:58	1
Acetophenone	ND		0.95	0.32	ug/L		12/26/17 08:22	12/27/17 12:58	1
Anthracene	ND		0.19	0.084	ug/L		12/26/17 08:22	12/27/17 12:58	1
Atrazine	ND		1.9	0.32	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/26/17 08:22	12/27/17 12:58	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/26/17 08:22	12/27/17 12:58	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/26/17 08:22	12/27/17 12:58	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/26/17 08:22	12/27/17 12:58	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/26/17 08:22	12/27/17 12:58	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/26/17 08:22	12/27/17 12:58	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:58	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/26/17 08:22	12/27/17 12:58	1
Carbazole	ND		0.95	0.27	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/26/17 08:22	12/27/17 12:58	1
Chrysene	ND		0.19	0.048	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/26/17 08:22	12/27/17 12:58	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/26/17 08:22	12/27/17 12:58	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/26/17 08:22	12/27/17 12:58	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/26/17 08:22	12/27/17 12:58	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/26/17 08:22	12/27/17 12:58	1
Diethyl phthalate	0.82	J B	1.9	0.57	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/26/17 08:22	12/27/17 12:58	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/26/17 08:22	12/27/17 12:58	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/26/17 08:22	12/27/17 12:58	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/26/17 08:22	12/27/17 12:58	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/26/17 08:22	12/27/17 12:58	1
Fluoranthene	ND		0.19	0.042	ug/L		12/26/17 08:22	12/27/17 12:58	1
Fluorene	ND		0.19	0.039	ug/L		12/26/17 08:22	12/27/17 12:58	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/26/17 08:22	12/27/17 12:58	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/26/17 08:22	12/27/17 12:58	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/26/17 08:22	12/27/17 12:58	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/26/17 08:22	12/27/17 12:58	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/26/17 08:22	12/27/17 12:58	1
Isophorone	ND		0.95	0.26	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/26/17 08:22	12/27/17 12:58	1
Naphthalene	ND		0.19	0.060	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/26/17 08:22	12/27/17 12:58	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/26/17 08:22	12/27/17 12:58	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/26/17 08:22	12/27/17 12:58	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/26/17 08:22	12/27/17 12:58	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/26/17 08:22	12/27/17 12:58	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/26/17 08:22	12/27/17 12:58	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/26/17 08:22	12/27/17 12:58	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/26/17 08:22	12/27/17 12:58	1
Phenanthrene	ND		0.19	0.059	ug/L		12/26/17 08:22	12/27/17 12:58	1
Phenol	ND		0.95	0.57	ug/L		12/26/17 08:22	12/27/17 12:58	1
Pyrene	ND		0.19	0.040	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/26/17 08:22	12/27/17 12:58	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/26/17 08:22	12/27/17 12:58	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		38 - 120	12/26/17 08:22	12/27/17 12:58	1
2-Fluorophenol (Surr)	46		10 - 120	12/26/17 08:22	12/27/17 12:58	1
2,4,6-Tribromophenol (Surr)	94		28 - 120	12/26/17 08:22	12/27/17 12:58	1
Nitrobenzene-d5 (Surr)	75		32 - 120	12/26/17 08:22	12/27/17 12:58	1
Phenol-d5 (Surr)	28		10 - 120	12/26/17 08:22	12/27/17 12:58	1
Terphenyl-d14 (Surr)	87		23 - 127	12/26/17 08:22	12/27/17 12:58	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 19:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1221	ND		0.19	0.087	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1242	ND		0.19	0.058	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/26/17 09:30	12/28/17 12:35	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/26/17 09:30	12/28/17 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		10 - 120	12/26/17 09:30	12/28/17 12:35	1
Tetrachloro-m-xylene	52		22 - 120	12/26/17 09:30	12/28/17 12:35	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.17	B	0.097	0.019	mg/L		12/22/17 08:56	12/23/17 04:11	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	73	J	200	1.3	ug/L		12/22/17 14:00	12/26/17 19:00	1
Aluminum	ND		200	47	ug/L		12/22/17 14:00	12/26/17 19:00	1
Cadmium	0.25	J	5.0	0.20	ug/L		12/22/17 14:00	12/26/17 19:00	1
Chromium	ND		10	0.63	ug/L		12/22/17 14:00	12/26/17 19:00	1
Silver	ND		10	0.62	ug/L		12/22/17 14:00	12/26/17 19:00	1
Arsenic	ND		10	4.1	ug/L		12/22/17 14:00	12/26/17 19:00	1
Beryllium	ND		5.0	0.60	ug/L		12/22/17 14:00	12/26/17 19:00	1
Lead	ND		3.0	2.8	ug/L		12/22/17 14:00	12/26/17 19:00	1
Calcium	83000		5000	310	ug/L		12/22/17 14:00	12/26/17 19:00	1
Cobalt	ND		7.0	0.75	ug/L		12/22/17 14:00	12/26/17 19:00	1
Copper	ND		25	3.5	ug/L		12/22/17 14:00	12/26/17 19:00	1
Iron	5400		100	26	ug/L		12/22/17 14:00	12/26/17 19:00	1
Potassium	3300	J	5000	560	ug/L		12/22/17 14:00	12/26/17 19:00	1
Magnesium	42000		5000	780	ug/L		12/22/17 14:00	12/26/17 19:00	1
Manganese	120		15	2.1	ug/L		12/22/17 14:00	12/26/17 19:00	1
Sodium	30000		5000	560	ug/L		12/22/17 14:00	12/26/17 19:00	1
Nickel	ND		40	2.2	ug/L		12/22/17 14:00	12/26/17 19:00	1
Antimony	ND		10	7.5	ug/L		12/22/17 14:00	12/26/17 19:00	1
Vanadium	ND		10	5.6	ug/L		12/22/17 14:00	12/26/17 19:00	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/22/17 14:00	12/26/17 19:00	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/22/17 14:00	12/26/17 17:40	1
Thallium	ND		1.0	0.20	ug/L	-	12/22/17 14:00	12/26/17 17:40	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/22/17 14:00	12/26/17 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	12/29/17 11:36	12/29/17 12:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-89734-4

Date Collected: 12/19/17 00:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/30/17 16:06	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/30/17 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/30/17 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/30/17 16:06	1
1,1,2-Trichloroethane	ND	*	1.0	0.34	ug/L			12/30/17 16:06	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/30/17 16:06	1
1,1-Dichloroethene	ND	*	1.0	0.27	ug/L			12/30/17 16:06	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/30/17 16:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/30/17 16:06	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/30/17 16:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/30/17 16:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 16:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/30/17 16:06	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/30/17 16:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/30/17 16:06	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/30/17 16:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 16:06	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/30/17 16:06	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/30/17 16:06	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/30/17 16:06	1
Allyl chloride	ND		2.0	0.38	ug/L			12/30/17 16:06	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/30/17 16:06	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/30/17 16:06	1
2-Hexanone	ND		10	1.2	ug/L			12/30/17 16:06	1
Bromobenzene	ND		1.0	0.31	ug/L			12/30/17 16:06	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/30/17 16:06	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/30/17 16:06	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/30/17 16:06	1
Acetone	ND		10	1.8	ug/L			12/30/17 16:06	1
Benzene	ND		1.0	0.28	ug/L			12/30/17 16:06	1
Bromoform	ND		1.0	0.43	ug/L			12/30/17 16:06	1
Bromomethane	ND	*	1.0	0.42	ug/L			12/30/17 16:06	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/30/17 16:06	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/30/17 16:06	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/30/17 16:06	1
Chloroethane	ND	*	1.0	0.41	ug/L			12/30/17 16:06	1
Chloroform	ND		1.0	0.31	ug/L			12/30/17 16:06	1
Chloromethane	ND		1.0	0.43	ug/L			12/30/17 16:06	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/30/17 16:06	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/30/17 16:06	1
Cyclohexane	ND		1.0	0.44	ug/L			12/30/17 16:06	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/30/17 16:06	1
Dibromomethane	ND		1.0	0.46	ug/L			12/30/17 16:06	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/30/17 16:06	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/30/17 16:06	1
Dichlorofluoromethane	ND	*	1.0	0.43	ug/L			12/30/17 16:06	1
Ethyl ether	ND	*	1.0	0.35	ug/L			12/30/17 16:06	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/30/17 16:06	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/30/17 16:06	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-89734-4

Date Collected: 12/19/17 00:00

Matrix: Water

Date Received: 12/21/17 10:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/30/17 16:06	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/30/17 16:06	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/30/17 16:06	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/30/17 16:06	1
Methyl acetate	ND		10	1.4	ug/L			12/30/17 16:06	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/30/17 16:06	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/30/17 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/30/17 16:06	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/30/17 16:06	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/30/17 16:06	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/30/17 16:06	1
o-Xylene	ND		1.0	0.28	ug/L			12/30/17 16:06	1
Styrene	ND		1.0	0.23	ug/L			12/30/17 16:06	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/30/17 16:06	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/30/17 16:06	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/30/17 16:06	1
Toluene	ND		1.0	0.23	ug/L			12/30/17 16:06	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/30/17 16:06	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/30/17 16:06	1
Trichloroethene	ND		1.0	0.33	ug/L			12/30/17 16:06	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/30/17 16:06	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/30/17 16:06	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/30/17 16:06	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/30/17 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		61 - 138		12/30/17 16:06	1
4-Bromofluorobenzene (Surr)	74		69 - 120		12/30/17 16:06	1
Toluene-d8 (Surr)	96		73 - 120		12/30/17 16:06	1
Dibromofluoromethane (Surr)	110		69 - 124		12/30/17 16:06	1

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89734-1	AMW-30 (20171220)	108	87	91	106
240-89734-2	AMW-31 (20171220)	111	76	92	110
240-89734-3	AMW-02 (20171219)	114	74	88	109
240-89734-3 MS	AMW-02 (20171219)	104	99	105	101
240-89734-3 MSD	AMW-02 (20171219)	101	95	109	100
240-89734-4	TRIP BLANKS	116	74	96	110
LCS 240-309677/4	Lab Control Sample	84	95	91	86
MB 240-309677/6	Method Blank	116	77	96	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89734-1	AMW-30 (20171220)	100	51	107	85	31	75
240-89734-2	AMW-31 (20171220)	90	42	102	74	28	77
240-89734-3	AMW-02 (20171219)	84	46	94	75	28	87
LCS 240-309044/10-A	Lab Control Sample	85	54	100	86	35	96
MB 240-309044/9-A	Method Blank	96	52	83	84	30	105

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-120)	TCX2 (22-120)
240-89734-1	AMW-30 (20171220)	10	65
240-89734-3	AMW-02 (20171219)	36	52
LCS 240-309059/18-A	Lab Control Sample	87	65
LCS 240-309223/16-A	Lab Control Sample	80	72
MB 240-309059/17-A	Method Blank	83	78
MB 240-309223/15-A	Method Blank	77	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography
Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCBP1 (10-120)	TCX1 (22-120)				
240-89734-2	AMW-31 (20171220)	48	56				
Surrogate Legend							
DCBP = DCB Decachlorobiphenyl							
TCX = Tetrachloro-m-xylene							

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309677/6

Matrix: Water

Analysis Batch: 309677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/30/17 13:06	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/30/17 13:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/30/17 13:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/30/17 13:06	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/30/17 13:06	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/30/17 13:06	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/30/17 13:06	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/30/17 13:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/30/17 13:06	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/30/17 13:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/30/17 13:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 13:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/30/17 13:06	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/30/17 13:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/30/17 13:06	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/30/17 13:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/30/17 13:06	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/30/17 13:06	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/30/17 13:06	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/30/17 13:06	1
Allyl chloride	ND		2.0	0.38	ug/L			12/30/17 13:06	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/30/17 13:06	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/30/17 13:06	1
2-Hexanone	ND		10	1.2	ug/L			12/30/17 13:06	1
Bromobenzene	ND		1.0	0.31	ug/L			12/30/17 13:06	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/30/17 13:06	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/30/17 13:06	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/30/17 13:06	1
Acetone	ND		10	1.8	ug/L			12/30/17 13:06	1
Benzene	ND		1.0	0.28	ug/L			12/30/17 13:06	1
Bromoform	ND		1.0	0.43	ug/L			12/30/17 13:06	1
Bromomethane	ND		1.0	0.42	ug/L			12/30/17 13:06	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/30/17 13:06	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/30/17 13:06	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/30/17 13:06	1
Chloroethane	ND		1.0	0.41	ug/L			12/30/17 13:06	1
Chloroform	ND		1.0	0.31	ug/L			12/30/17 13:06	1
Chloromethane	ND		1.0	0.43	ug/L			12/30/17 13:06	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/30/17 13:06	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/30/17 13:06	1
Cyclohexane	ND		1.0	0.44	ug/L			12/30/17 13:06	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/30/17 13:06	1
Dibromomethane	ND		1.0	0.46	ug/L			12/30/17 13:06	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/30/17 13:06	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/30/17 13:06	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/30/17 13:06	1
Ethyl ether	ND		2.0	0.35	ug/L			12/30/17 13:06	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/30/17 13:06	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309677/6

Matrix: Water

Analysis Batch: 309677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/30/17 13:06	1
Naphthalene	ND		1.0	0.25	ug/L			12/30/17 13:06	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/30/17 13:06	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/30/17 13:06	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/30/17 13:06	1
Methyl acetate	ND		10	1.4	ug/L			12/30/17 13:06	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/30/17 13:06	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/30/17 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/30/17 13:06	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/30/17 13:06	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/30/17 13:06	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/30/17 13:06	1
o-Xylene	ND		1.0	0.28	ug/L			12/30/17 13:06	1
Styrene	ND		1.0	0.23	ug/L			12/30/17 13:06	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/30/17 13:06	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/30/17 13:06	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/30/17 13:06	1
Toluene	ND		1.0	0.23	ug/L			12/30/17 13:06	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/30/17 13:06	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/30/17 13:06	1
Trichloroethene	ND		1.0	0.33	ug/L			12/30/17 13:06	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/30/17 13:06	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/30/17 13:06	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/30/17 13:06	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/30/17 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		61 - 138		12/30/17 13:06	1
4-Bromofluorobenzene (Surr)	77		69 - 120		12/30/17 13:06	1
Toluene-d8 (Surr)	96		73 - 120		12/30/17 13:06	1
Dibromofluoromethane (Surr)	110		69 - 124		12/30/17 13:06	1

Lab Sample ID: LCS 240-309677/4

Matrix: Water

Analysis Batch: 309677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.0		ug/L		110	73 - 136
1,1,1-Trichloroethane	10.0	9.72		ug/L		97	64 - 147
1,1,2,2-Tetrachloroethane	10.0	12.2		ug/L		122	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	13.3		ug/L		133	65 - 144
1,1,2-Trichloroethane	10.0	12.4	*	ug/L		124	76 - 121
1,1-Dichloroethane	10.0	11.2		ug/L		112	74 - 120
1,1-Dichloroethene	10.0	12.9	*	ug/L		129	65 - 127
1,1-Dichloropropene	10.0	10.2		ug/L		102	80 - 122
1,2,3-Trichlorobenzene	10.0	6.68		ug/L		67	31 - 144
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	53 - 134

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309677/4

Matrix: Water

Analysis Batch: 309677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	6.10		ug/L		61	34 - 141
1,2,4-Trimethylbenzene	10.0	9.50		ug/L		95	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.16		ug/L		82	50 - 130
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,2-Dichloroethane	10.0	10.2		ug/L		102	68 - 133
1,2-Dichloropropane	10.0	12.0		ug/L		120	78 - 127
1,3,5-Trimethylbenzene	10.0	9.52		ug/L		95	79 - 120
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,3-Dichloropropane	10.0	12.0		ug/L		120	71 - 124
1,4-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
Allyl chloride	10.0	10.6		ug/L		106	57 - 143
2,2-Dichloropropane	10.0	10.2		ug/L		102	32 - 178
2-Chlorotoluene	10.0	9.69		ug/L		97	80 - 120
2-Hexanone	20.0	21.2		ug/L		106	28 - 169
Bromobenzene	10.0	9.84		ug/L		98	73 - 120
Bromochloromethane	10.0	10.5		ug/L		105	78 - 120
4-Chlorotoluene	10.0	10.5		ug/L		105	79 - 120
p-Isopropyltoluene	10.0	8.95		ug/L		89	78 - 125
Acetone	20.0	21.8		ug/L		109	35 - 131
Benzene	10.0	10.9		ug/L		109	79 - 120
Bromoform	10.0	9.88		ug/L		99	55 - 145
Bromomethane	10.0	20.1	*	ug/L		201	17 - 158
Carbon disulfide	10.0	10.8		ug/L		108	49 - 141
Carbon tetrachloride	10.0	10.4		ug/L		104	55 - 171
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120
Chloroethane	10.0	16.0	*	ug/L		160	10 - 149
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	10.0		ug/L		100	59 - 124
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	77 - 120
cis-1,3-Dichloropropene	10.0	9.63		ug/L		96	75 - 120
Cyclohexane	10.0	10.8		ug/L		108	66 - 135
Hexachlorobutadiene	10.0	6.87		ug/L		69	36 - 146
Dibromomethane	10.0	11.0		ug/L		110	80 - 120
Bromodichloromethane	10.0	10.3		ug/L		103	79 - 125
Dichlorodifluoromethane	10.0	6.61		ug/L		66	42 - 141
Dichlorofluoromethane	10.0	14.4	*	ug/L		144	28 - 138
Ethyl ether	10.0	18.8	*	ug/L		188	72 - 125
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dibromoethane	10.0	11.1		ug/L		111	80 - 120
Naphthalene	10.0	5.60		ug/L		56	31 - 127
m-Xylene & p-Xylene	10.0	10.8		ug/L		108	80 - 120
n-Butylbenzene	10.0	8.36		ug/L		84	60 - 137
Isopropylbenzene	10.0	10.2		ug/L		102	80 - 128
Methyl acetate	20.0	24.3		ug/L		122	63 - 137
N-Propylbenzene	10.0	9.45		ug/L		95	76 - 120
2-Butanone (MEK)	20.0	22.0		ug/L		110	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		100	53 - 144
sec-Butylbenzene	10.0	9.00		ug/L		90	76 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309677/4

Matrix: Water

Analysis Batch: 309677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	10.0	9.01		ug/L		90	73 - 120
Methylene Chloride	10.0	10.9		ug/L		109	64 - 140
o-Xylene	10.0	10.6		ug/L		106	80 - 120
Styrene	10.0	11.2		ug/L		112	80 - 121
tert-Butylbenzene	10.0	8.76		ug/L		88	79 - 120
Tetrachloroethene	10.0	10.6		ug/L		106	80 - 122
Tetrahydrofuran	20.0	19.5		ug/L		97	63 - 131
Toluene	10.0	11.4		ug/L		114	78 - 120
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	74 - 124
trans-1,3-Dichloropropene	10.0	9.48		ug/L		95	67 - 120
Trichloroethene	10.0	9.71		ug/L		97	76 - 124
Trichlorofluoromethane	10.0	14.2		ug/L		142	27 - 176
Vinyl chloride	10.0	10.3		ug/L		103	65 - 124
Methylcyclohexane	10.0	9.07		ug/L		91	63 - 141
Chlorodibromomethane	10.0	11.0		ug/L		110	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		61 - 138
4-Bromofluorobenzene (Surr)	95		69 - 120
Toluene-d8 (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	86		69 - 124

Lab Sample ID: 240-89734-3 MS

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	9.76		ug/L		98	67 - 142
1,1,1-Trichloroethane	ND		10.0	8.09		ug/L		81	57 - 156
1,1,2,2-Tetrachloroethane	ND	F1	10.0	12.8	F1	ug/L		128	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.5		ug/L		105	58 - 137
1,1,2-Trichloroethane	ND	*	10.0	12.2		ug/L		122	68 - 127
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	69 - 122
1,1-Dichloroethene	ND	*	10.0	11.6		ug/L		116	62 - 127
1,1-Dichloropropene	ND		10.0	9.11		ug/L		91	55 - 136
1,2,3-Trichlorobenzene	ND		10.0	5.81		ug/L		58	40 - 139
1,2,3-Trichloropropane	ND		10.0	11.5		ug/L		115	41 - 152
1,2,4-Trichlorobenzene	ND		10.0	5.53		ug/L		55	26 - 138
1,2,4-Trimethylbenzene	ND		10.0	8.52		ug/L		85	64 - 120
1,2-Dibromo-3-Chloropropane	ND		10.0	8.29		ug/L		83	48 - 130
1,2-Dichlorobenzene	ND		10.0	9.18		ug/L		92	70 - 120
1,2-Dichloroethane	ND		10.0	10.0		ug/L		100	64 - 138
1,2-Dichloropropane	ND		10.0	11.0		ug/L		110	72 - 131
1,3,5-Trimethylbenzene	ND		10.0	8.59		ug/L		86	67 - 120
1,3-Dichlorobenzene	ND		10.0	9.21		ug/L		92	71 - 120
1,3-Dichloropropane	ND		10.0	11.9		ug/L		119	58 - 137
1,4-Dichlorobenzene	ND		10.0	9.11		ug/L		91	72 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89734-3 MS

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Allyl chloride	ND		10.0	10.4		ug/L		104	55 - 137
2,2-Dichloropropane	ND		10.0	8.21		ug/L		82	34 - 153
2-Chlorotoluene	ND		10.0	9.09		ug/L		91	52 - 134
2-Hexanone	ND		20.0	23.0		ug/L		115	21 - 184
Bromobenzene	ND		10.0	9.41		ug/L		94	59 - 131
Bromochloromethane	ND		10.0	9.68		ug/L		97	66 - 132
4-Chlorotoluene	ND		10.0	9.75		ug/L		97	52 - 133
p-Isopropyltoluene	ND		10.0	7.86		ug/L		79	70 - 120
Acetone	2.3	J	20.0	26.2		ug/L		119	19 - 133
Benzene	ND		10.0	10.1		ug/L		101	69 - 127
Bromoform	ND		10.0	9.37		ug/L		94	61 - 135
Bromomethane	ND	*	10.0	6.76		ug/L		68	10 - 148
Carbon disulfide	ND	F2	10.0	9.28		ug/L		93	46 - 143
Carbon tetrachloride	ND		10.0	8.37		ug/L		84	53 - 175
Chlorobenzene	ND		10.0	10.0		ug/L		100	76 - 120
Chloroethane	ND	F2 *	10.0	4.63		ug/L		46	10 - 141
Chloroform	ND		10.0	9.84		ug/L		98	74 - 125
Chloromethane	ND	F2	10.0	6.09		ug/L		61	34 - 127
cis-1,2-Dichloroethene	ND		10.0	9.56		ug/L		96	69 - 127
cis-1,3-Dichloropropene	ND		10.0	8.81		ug/L		88	68 - 120
Cyclohexane	ND		10.0	8.61		ug/L		86	56 - 135
Hexachlorobutadiene	ND		10.0	5.78		ug/L		58	30 - 134
Dibromomethane	ND		10.0	10.5		ug/L		105	73 - 120
Bromodichloromethane	ND		10.0	9.52		ug/L		95	75 - 128
Dichlorodifluoromethane	ND		10.0	6.71		ug/L		67	45 - 130
Dichlorofluoromethane	ND	F2 *	10.0	10.5		ug/L		105	36 - 161
Ethyl ether	ND	F1 *	10.0	17.5	F1	ug/L		175	65 - 124
Ethylbenzene	ND		10.0	9.45		ug/L		94	72 - 121
1,2-Dibromoethane	ND		10.0	11.0		ug/L		110	73 - 121
Naphthalene	ND		10.0	5.09		ug/L		51	28 - 150
m-Xylene & p-Xylene	ND		10.0	9.73		ug/L		97	70 - 121
n-Butylbenzene	ND		10.0	7.07		ug/L		71	38 - 133
Isopropylbenzene	ND		10.0	8.63		ug/L		86	70 - 132
Methyl acetate	ND		20.0	25.1		ug/L		125	52 - 139
N-Propylbenzene	ND		10.0	8.85		ug/L		89	50 - 134
2-Butanone (MEK)	ND	F2	20.0	24.3		ug/L		121	34 - 153
4-Methyl-2-pentanone (MIBK)	ND		20.0	22.0		ug/L		110	53 - 147
sec-Butylbenzene	ND		10.0	7.89		ug/L		79	43 - 133
Methyl tert butyl ether	ND		10.0	8.50		ug/L		85	67 - 125
Methylene Chloride	ND		10.0	8.96		ug/L		90	52 - 137
o-Xylene	ND		10.0	9.14		ug/L		91	71 - 125
Styrene	ND		10.0	9.90		ug/L		99	74 - 125
tert-Butylbenzene	ND		10.0	7.90		ug/L		79	48 - 131
Tetrachloroethene	ND		10.0	9.36		ug/L		94	69 - 126
Tetrahydrofuran	ND		20.0	21.2		ug/L		106	40 - 128
Toluene	ND		10.0	10.6		ug/L		106	69 - 125
trans-1,2-Dichloroethene	ND		10.0	9.86		ug/L		99	66 - 131
trans-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	59 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89734-3 MS

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	ND		10.0	8.71		ug/L		87	68 - 129
Trichlorofluoromethane	ND		10.0	10.6		ug/L		106	28 - 172
Vinyl chloride	ND		10.0	10.3		ug/L		103	55 - 123
Methylcyclohexane	ND		10.0	7.48		ug/L		75	46 - 139
Chlorodibromomethane	ND		10.0	10.7		ug/L		107	62 - 131

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	104		61 - 138
4-Bromofluorobenzene (Surr)	99		69 - 120
Toluene-d8 (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	101		69 - 124

Lab Sample ID: 240-89734-3 MSD

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	9.68		ug/L		97	67 - 142	1	18
1,1,1-Trichloroethane	ND		10.0	9.03		ug/L		90	57 - 156	11	13
1,1,2,2-Tetrachloroethane	ND	F1	10.0	12.9	F1	ug/L		129	51 - 123	1	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	12.2		ug/L		122	58 - 137	15	35
1,1,2-Trichloroethane	ND	*	10.0	12.3		ug/L		123	68 - 127	0	11
1,1-Dichloroethane	ND		10.0	10.7		ug/L		107	69 - 122	7	11
1,1-Dichloroethene	ND	*	10.0	11.8		ug/L		118	62 - 127	2	14
1,1-Dichloropropene	ND		10.0	9.84		ug/L		98	55 - 136	8	35
1,2,3-Trichlorobenzene	ND		10.0	5.58		ug/L		56	40 - 139	4	35
1,2,3-Trichloropropane	ND		10.0	11.4		ug/L		114	41 - 152	1	12
1,2,4-Trichlorobenzene	ND		10.0	5.27		ug/L		53	26 - 138	5	35
1,2,4-Trimethylbenzene	ND		10.0	8.87		ug/L		89	64 - 120	4	22
1,2-Dibromo-3-Chloropropane	ND		10.0	7.63		ug/L		76	48 - 130	8	31
1,2-Dichlorobenzene	ND		10.0	9.54		ug/L		95	70 - 120	4	19
1,2-Dichloroethane	ND		10.0	9.75		ug/L		97	64 - 138	3	11
1,2-Dichloropropane	ND		10.0	11.4		ug/L		114	72 - 131	3	12
1,3,5-Trimethylbenzene	ND		10.0	9.02		ug/L		90	67 - 120	5	25
1,3-Dichlorobenzene	ND		10.0	9.72		ug/L		97	71 - 120	5	18
1,3-Dichloropropane	ND		10.0	12.0		ug/L		120	58 - 137	1	35
1,4-Dichlorobenzene	ND		10.0	9.72		ug/L		97	72 - 120	6	17
Allyl chloride	ND		10.0	11.8		ug/L		118	55 - 137	13	20
2,2-Dichloropropane	ND		10.0	9.21		ug/L		92	34 - 153	11	35
2-Chlorotoluene	ND		10.0	9.74		ug/L		97	52 - 134	7	35
2-Hexanone	ND		20.0	20.4		ug/L		102	21 - 184	12	12
Bromobenzene	ND		10.0	10.1		ug/L		101	59 - 131	7	35
Bromochloromethane	ND		10.0	9.94		ug/L		99	66 - 132	3	15
4-Chlorotoluene	ND		10.0	10.5		ug/L		105	52 - 133	7	35
p-Isopropyltoluene	ND		10.0	8.08		ug/L		81	70 - 120	3	22
Acetone	2.3	J	20.0	18.7		ug/L		82	19 - 133	33	35
Benzene	ND		10.0	10.4		ug/L		104	69 - 127	3	10

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89734-3 MSD

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	8.32		ug/L		83	61 - 135	12	13
Bromomethane	ND	*	10.0	9.63		ug/L		96	10 - 148	35	35
Carbon disulfide	ND	F2	10.0	12.2	F2	ug/L		122	46 - 143	27	18
Carbon tetrachloride	ND		10.0	9.41		ug/L		94	53 - 175	12	17
Chlorobenzene	ND		10.0	10.2		ug/L		102	76 - 120	2	12
Chloroethane	ND	F2 *	10.0	13.9	F2	ug/L		139	10 - 141	100	35
Chloroform	ND		10.0	10.1		ug/L		101	74 - 125	3	11
Chloromethane	ND	F2	10.0	4.18	F2	ug/L		42	34 - 127	37	25
cis-1,2-Dichloroethene	ND		10.0	10.1		ug/L		101	69 - 127	5	11
cis-1,3-Dichloropropene	ND		10.0	8.45		ug/L		84	68 - 120	4	13
Cyclohexane	ND		10.0	10.2		ug/L		102	56 - 135	17	35
Hexachlorobutadiene	ND		10.0	5.35		ug/L		54	30 - 134	8	35
Dibromomethane	ND		10.0	10.1		ug/L		101	73 - 120	4	16
Bromodichloromethane	ND		10.0	9.39		ug/L		94	75 - 128	1	13
Dichlorodifluoromethane	ND		10.0	7.72		ug/L		77	45 - 130	14	34
Dichlorofluoromethane	ND	F2 *	10.0	15.3	F2	ug/L		153	36 - 161	38	35
Ethyl ether	ND	F1 *	10.0	18.1	F1	ug/L		181	65 - 124	4	11
Ethylbenzene	ND		10.0	9.70		ug/L		97	72 - 121	3	15
1,2-Dibromoethane	ND		10.0	10.9		ug/L		109	73 - 121	1	12
Naphthalene	ND		10.0	4.67		ug/L		47	28 - 150	9	35
m-Xylene & p-Xylene	ND		10.0	9.92		ug/L		99	70 - 121	2	15
n-Butylbenzene	ND		10.0	7.25		ug/L		73	38 - 133	3	35
Isopropylbenzene	ND		10.0	8.63		ug/L		86	70 - 132	0	16
Methyl acetate	ND		20.0	22.5		ug/L		112	52 - 139	11	14
N-Propylbenzene	ND		10.0	9.30		ug/L		93	50 - 134	5	35
2-Butanone (MEK)	ND	F2	20.0	19.1	F2	ug/L		95	34 - 153	24	23
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.9		ug/L		94	53 - 147	15	16
sec-Butylbenzene	ND		10.0	8.31		ug/L		83	43 - 133	5	35
Methyl tert butyl ether	ND		10.0	8.41		ug/L		84	67 - 125	1	12
Methylene Chloride	ND		10.0	9.62		ug/L		96	52 - 137	7	12
o-Xylene	ND		10.0	9.28		ug/L		93	71 - 125	2	15
Styrene	ND		10.0	9.80		ug/L		98	74 - 125	1	14
tert-Butylbenzene	ND		10.0	8.23		ug/L		82	48 - 131	4	35
Tetrachloroethene	ND		10.0	10.2		ug/L		102	69 - 126	9	18
Tetrahydrofuran	ND		20.0	18.6		ug/L		93	40 - 128	13	15
Toluene	ND		10.0	11.3		ug/L		113	69 - 125	7	14
trans-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	66 - 131	8	11
trans-1,3-Dichloropropene	ND		10.0	9.21		ug/L		92	59 - 120	1	14
Trichloroethene	ND		10.0	9.12		ug/L		91	68 - 129	5	12
Trichlorofluoromethane	ND		10.0	13.0		ug/L		130	28 - 172	20	26
Vinyl chloride	ND		10.0	11.4		ug/L		114	55 - 123	11	12
Methylcyclohexane	ND		10.0	8.39		ug/L		84	46 - 139	11	35
Chlorodibromomethane	ND		10.0	10.3		ug/L		103	62 - 131	4	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		61 - 138
4-Bromofluorobenzene (Surr)	95		69 - 120
Toluene-d8 (Surr)	109		73 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89734-3 MSD

Matrix: Water

Analysis Batch: 309677

Client Sample ID: AMW-02 (20171219)

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		69 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309044/9-A

Matrix: Water

Analysis Batch: 309226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/26/17 08:22	12/27/17 10:10	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/26/17 08:22	12/27/17 10:10	1
Acetophenone	ND		1.0	0.34	ug/L		12/26/17 08:22	12/27/17 10:10	1
Anthracene	ND		0.20	0.088	ug/L		12/26/17 08:22	12/27/17 10:10	1
Atrazine	ND		2.0	0.34	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/26/17 08:22	12/27/17 10:10	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/26/17 08:22	12/27/17 10:10	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/26/17 08:22	12/27/17 10:10	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/26/17 08:22	12/27/17 10:10	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/26/17 08:22	12/27/17 10:10	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/26/17 08:22	12/27/17 10:10	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/26/17 08:22	12/27/17 10:10	1
Caprolactam	ND		5.0	0.20	ug/L		12/26/17 08:22	12/27/17 10:10	1
Carbazole	ND		1.0	0.28	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/26/17 08:22	12/27/17 10:10	1
Chrysene	ND		0.20	0.050	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/26/17 08:22	12/27/17 10:10	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/26/17 08:22	12/27/17 10:10	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/26/17 08:22	12/27/17 10:10	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/26/17 08:22	12/27/17 10:10	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/26/17 08:22	12/27/17 10:10	1
Diethyl phthalate	0.928	J	2.0	0.60	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/26/17 08:22	12/27/17 10:10	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/26/17 08:22	12/27/17 10:10	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/26/17 08:22	12/27/17 10:10	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/26/17 08:22	12/27/17 10:10	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/26/17 08:22	12/27/17 10:10	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309044/9-A

Matrix: Water

Analysis Batch: 309226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.20	0.045	ug/L		12/26/17 08:22	12/27/17 10:10	1
Fluorene	ND		0.20	0.041	ug/L		12/26/17 08:22	12/27/17 10:10	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/26/17 08:22	12/27/17 10:10	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/26/17 08:22	12/27/17 10:10	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/26/17 08:22	12/27/17 10:10	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/26/17 08:22	12/27/17 10:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/26/17 08:22	12/27/17 10:10	1
Isophorone	ND		1.0	0.27	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/26/17 08:22	12/27/17 10:10	1
Naphthalene	ND		0.20	0.063	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/26/17 08:22	12/27/17 10:10	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/26/17 08:22	12/27/17 10:10	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/26/17 08:22	12/27/17 10:10	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/26/17 08:22	12/27/17 10:10	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/26/17 08:22	12/27/17 10:10	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/26/17 08:22	12/27/17 10:10	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/26/17 08:22	12/27/17 10:10	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/26/17 08:22	12/27/17 10:10	1
Phenanthrene	ND		0.20	0.062	ug/L		12/26/17 08:22	12/27/17 10:10	1
Phenol	ND		1.0	0.60	ug/L		12/26/17 08:22	12/27/17 10:10	1
Pyrene	ND		0.20	0.042	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/26/17 08:22	12/27/17 10:10	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/26/17 08:22	12/27/17 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		38 - 120	12/26/17 08:22	12/27/17 10:10	1
2-Fluorophenol (Surr)	52		10 - 120	12/26/17 08:22	12/27/17 10:10	1
2,4,6-Tribromophenol (Surr)	83		28 - 120	12/26/17 08:22	12/27/17 10:10	1
Nitrobenzene-d5 (Surr)	84		32 - 120	12/26/17 08:22	12/27/17 10:10	1
Phenol-d5 (Surr)	30		10 - 120	12/26/17 08:22	12/27/17 10:10	1
Terphenyl-d14 (Surr)	105		23 - 127	12/26/17 08:22	12/27/17 10:10	1

Lab Sample ID: LCS 240-309044/10-A

Matrix: Water

Analysis Batch: 309226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	17.1		ug/L		85	54 - 120
Acenaphthylene	20.0	16.3		ug/L		81	53 - 120
Acetophenone	20.0	16.0		ug/L		80	56 - 120
Anthracene	20.0	18.5		ug/L		93	56 - 120
Atrazine	40.0	41.8		ug/L		104	61 - 127
Benzaldehyde	40.0	34.8		ug/L		87	47 - 134
Benzo[a]anthracene	20.0	17.7		ug/L		89	54 - 120
Benzo[b]fluoranthene	20.0	17.8		ug/L		89	53 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309044/10-A

Matrix: Water

Analysis Batch: 309226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	20.0	17.3		ug/L		86	55 - 120
Benzo[g,h,i]perylene	20.0	16.2		ug/L		81	55 - 120
Benzo[a]pyrene	20.0	16.8		ug/L		84	54 - 120
Butyl benzyl phthalate	20.0	19.2		ug/L		96	51 - 120
1,1'-Biphenyl	20.0	16.3		ug/L		81	53 - 120
Bis(2-chloroethoxy)methane	20.0	16.2		ug/L		81	56 - 120
Bis(2-chloroethyl)ether	20.0	15.4		ug/L		77	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	17.2		ug/L		86	50 - 120
4-Bromophenyl phenyl ether	20.0	18.6		ug/L		93	54 - 120
Caprolactam	40.0	5.47		ug/L		14	10 - 120
Carbazole	20.0	19.4		ug/L		97	62 - 120
4-Chloroaniline	20.0	5.36		ug/L		27	10 - 120
4-Chloro-3-methylphenol	20.0	17.3		ug/L		86	54 - 120
2-Chloronaphthalene	20.0	16.2		ug/L		81	53 - 120
2-Chlorophenol	20.0	14.8		ug/L		74	53 - 120
4-Chlorophenyl phenyl ether	20.0	17.6		ug/L		88	56 - 120
Chrysene	20.0	18.3		ug/L		91	56 - 120
2-Methylnaphthalene	20.0	15.2		ug/L		76	54 - 120
3 & 4 Methylphenol	20.0	12.5		ug/L		63	40 - 120
Dibenz(a,h)anthracene	20.0	17.2		ug/L		86	52 - 120
Dibenzofuran	20.0	17.6		ug/L		88	55 - 120
3,3'-Dichlorobenzidine	40.0	40.0		ug/L		100	57 - 120
2,4-Dichlorophenol	20.0	16.0		ug/L		80	55 - 120
Diethyl phthalate	20.0	20.3		ug/L		101	42 - 132
2,4-Dimethylphenol	20.0	16.1		ug/L		81	52 - 120
Dimethyl phthalate	20.0	18.7		ug/L		94	56 - 120
4,6-Dinitro-2-methylphenol	40.0	33.5		ug/L		84	36 - 120
2,4-Dinitrophenol	40.0	30.8		ug/L		77	12 - 120
2,4-Dinitrotoluene	20.0	20.5		ug/L		102	60 - 120
Di-n-butyl phthalate	20.0	19.6		ug/L		98	61 - 120
Di-n-octyl phthalate	20.0	15.4		ug/L		77	58 - 120
Fluoranthene	20.0	19.2		ug/L		96	58 - 120
Fluorene	20.0	18.1		ug/L		91	56 - 120
Hexachlorobenzene	20.0	16.9		ug/L		84	51 - 120
Hexachlorobutadiene	20.0	12.4		ug/L		62	44 - 120
Hexachlorocyclopentadiene	20.0	12.3		ug/L		62	19 - 120
Hexachloroethane	20.0	11.2		ug/L		56	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		85	54 - 120
Isophorone	20.0	16.4		ug/L		82	55 - 120
2-Methylphenol	20.0	13.9		ug/L		69	46 - 120
Naphthalene	20.0	14.8		ug/L		74	53 - 120
2-Nitroaniline	20.0	19.5		ug/L		98	51 - 120
3-Nitroaniline	20.0	17.6		ug/L		88	53 - 120
4-Nitroaniline	20.0	19.8		ug/L		99	55 - 120
Nitrobenzene	20.0	16.9		ug/L		85	55 - 120
2-Nitrophenol	20.0	15.6		ug/L		78	54 - 120
4-Nitrophenol	40.0	17.9		ug/L		45	10 - 120
N-Nitrosodiphenylamine	20.0	18.9		ug/L		94	55 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309044/10-A

Matrix: Water

Analysis Batch: 309226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	20.0	16.0		ug/L		80	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	16.0		ug/L		80	45 - 120
Pentachlorophenol	40.0	34.3		ug/L		86	30 - 120
Phenanthrene	20.0	18.1		ug/L		90	55 - 120
Phenol	20.0	6.78		ug/L		34	10 - 120
Pyrene	20.0	18.3		ug/L		91	57 - 120
2,4,5-Trichlorophenol	20.0	18.4		ug/L		92	54 - 120
2,4,6-Trichlorophenol	20.0	16.8		ug/L		84	54 - 120
2,6-Dinitrotoluene	20.0	19.7		ug/L		98	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	85		38 - 120
2-Fluorophenol (Surr)	54		10 - 120
2,4,6-Tribromophenol (Surr)	100		28 - 120
Nitrobenzene-d5 (Surr)	86		32 - 120
Phenol-d5 (Surr)	35		10 - 120
Terphenyl-d14 (Surr)	96		23 - 127

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-308844/4

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/22/17 10:54	1

Lab Sample ID: LCS 240-308844/5

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	835		ug/L		104	80 - 120

Lab Sample ID: LCSD 240-308844/18

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	773		ug/L		97	80 - 120	8	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 240-89649-A-3 MS

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	ND		800	781		ug/L		98	80 - 120

Lab Sample ID: 240-89649-A-3 MSD

Matrix: Water

Analysis Batch: 308844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		800	795		ug/L		99	80 - 120	2	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-309059/17-A

Matrix: Water

Analysis Batch: 309344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/26/17 09:30	12/28/17 07:43	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/26/17 09:30	12/28/17 07:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		10 - 120	12/26/17 09:30	12/28/17 07:43	1
Tetrachloro-m-xylene	78		22 - 120	12/26/17 09:30	12/28/17 07:43	1

Lab Sample ID: LCS 240-309059/18-A

Matrix: Water

Analysis Batch: 309344

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.72		ug/L		69	28 - 120
Aroclor-1260	2.50	2.29		ug/L		92	30 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		10 - 120
Tetrachloro-m-xylene	65		22 - 120

Lab Sample ID: MB 240-309223/15-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-309223/15-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	ND		0.20	0.090	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/27/17 09:12	12/29/17 07:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		10 - 120	12/27/17 09:12	12/29/17 07:18	1
Tetrachloro-m-xylene	79		22 - 120	12/27/17 09:12	12/29/17 07:18	1

Lab Sample ID: LCS 240-309223/16-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.75		ug/L		70	28 - 120
Aroclor-1260	2.50	1.98		ug/L		79	30 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		10 - 120
Tetrachloro-m-xylene	72		22 - 120

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-308849/13-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0272	J	0.10	0.020	mg/L		12/22/17 08:56	12/22/17 21:50	1

Lab Sample ID: LCS 240-308849/14-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.437		mg/L		87	75 - 115

Lab Sample ID: LCSD 240-308849/15-A

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.452		mg/L		90	75 - 115	4	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: 240-89649-AL-3-A MSD

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.485	0.407	F2 F1	mg/L	-	-101	60 - 130	166	25

Lab Sample ID: 240-89649-AM-3-A MS

Matrix: Water

Analysis Batch: 308957

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.90	F2 F1 B	0.481	0.0379	J F1	mg/L	-	-178	60 - 130		

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-308878/1-A

Matrix: Water

Analysis Batch: 309208

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 308878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	1.3	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Aluminum	ND		200	47	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Cadmium	ND		5.0	0.20	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Chromium	ND		10	0.63	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Silver	ND		10	0.62	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Arsenic	ND		10	4.1	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Beryllium	ND		5.0	0.60	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Lead	ND		3.0	2.8	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Calcium	ND		5000	310	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Cobalt	ND		7.0	0.75	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Copper	ND		25	3.5	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Iron	ND		100	26	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Potassium	ND		5000	560	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Magnesium	ND		5000	780	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Manganese	ND		15	2.1	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Sodium	ND		5000	560	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Nickel	ND		40	2.2	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Antimony	ND		10	7.5	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Vanadium	ND		10	5.6	ug/L	-	12/22/17 14:00	12/26/17 17:23	1
Zinc	ND		50	9.7	ug/L	-	12/22/17 14:00	12/26/17 17:23	1

Lab Sample ID: LCS 240-308878/2-A

Matrix: Water

Analysis Batch: 309208

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 308878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	1960		ug/L	-	98	80 - 120
Aluminum	2000	1920		ug/L	-	96	80 - 120
Cadmium	50.0	52.1		ug/L	-	104	80 - 120
Chromium	200	199		ug/L	-	99	80 - 120
Silver	50.0	51.3		ug/L	-	103	80 - 120

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-308878/2-A
Matrix: Water
Analysis Batch: 309208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	2100		ug/L		105	80 - 120
Beryllium	50.0	49.2		ug/L		98	80 - 120
Lead	500	489		ug/L		98	80 - 120
Calcium	50000	48000		ug/L		96	80 - 120
Cobalt	500	491		ug/L		98	80 - 120
Copper	250	250		ug/L		100	80 - 120
Iron	1000	978		ug/L		98	80 - 120
Potassium	50000	47700		ug/L		95	80 - 120
Magnesium	50000	48500		ug/L		97	80 - 120
Manganese	500	500		ug/L		100	80 - 120
Sodium	50000	48200		ug/L		96	80 - 120
Nickel	500	504		ug/L		101	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Vanadium	500	493		ug/L		99	80 - 120
Zinc	500	517		ug/L		103	80 - 120

Lab Sample ID: 240-89734-1 MS
Matrix: Water
Analysis Batch: 309208

Client Sample ID: AMW-30 (20171220)
Prep Type: Dissolved
Prep Batch: 308878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	14	J	2000	1960		ug/L		97	75 - 125
Aluminum	33000		2000	34300	4	ug/L		45	75 - 125
Cadmium	0.44	J	50.0	52.0		ug/L		103	75 - 125
Chromium	6.5	J	200	198		ug/L		96	75 - 125
Silver	ND		50.0	50.6		ug/L		101	75 - 125
Arsenic	ND		2000	2090		ug/L		105	75 - 125
Beryllium	3.5	J	50.0	51.7		ug/L		96	75 - 125
Lead	ND		500	474		ug/L		95	75 - 125
Calcium	67000		50000	113000		ug/L		92	75 - 125
Cobalt	40		500	534		ug/L		99	75 - 125
Copper	180		250	415		ug/L		95	75 - 125
Iron	5300		1000	5970	4	ug/L		70	75 - 125
Potassium	13000		50000	60200		ug/L		95	75 - 125
Magnesium	30000		50000	76600		ug/L		94	75 - 125
Manganese	640		500	1110		ug/L		94	75 - 125
Sodium	19000		50000	66600		ug/L		95	75 - 125
Nickel	220		500	722		ug/L		100	75 - 125
Antimony	ND		500	499		ug/L		100	75 - 125
Vanadium	ND		500	492		ug/L		98	75 - 125
Zinc	92		500	615		ug/L		105	75 - 125

Lab Sample ID: 240-89734-1 MSD
Matrix: Water
Analysis Batch: 309208

Client Sample ID: AMW-30 (20171220)
Prep Type: Dissolved
Prep Batch: 308878

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Barium	14	J	2000	1990		ug/L		99	75 - 125	2	20
Aluminum	33000		2000	34700	4	ug/L		67	75 - 125	1	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89734-1 MSD

Matrix: Water

Analysis Batch: 309208

Client Sample ID: AMW-30 (20171220)

Prep Type: Dissolved

Prep Batch: 308878

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.44	J	50.0	52.3		ug/L		104	75 - 125	1	20
Chromium	6.5	J	200	200		ug/L		97	75 - 125	1	20
Silver	ND		50.0	50.8		ug/L		102	75 - 125	1	20
Arsenic	ND		2000	2120		ug/L		106	75 - 125	1	20
Beryllium	3.5	J	50.0	52.5		ug/L		98	75 - 125	2	20
Lead	ND		500	480		ug/L		96	75 - 125	1	20
Calcium	67000		50000	114000		ug/L		94	75 - 125	1	20
Cobalt	40		500	539		ug/L		100	75 - 125	1	20
Copper	180		250	418		ug/L		96	75 - 125	1	20
Iron	5300		1000	6040	4	ug/L		77	75 - 125	1	20
Potassium	13000		50000	61100		ug/L		97	75 - 125	1	20
Magnesium	30000		50000	77300		ug/L		95	75 - 125	1	20
Manganese	640		500	1110		ug/L		95	75 - 125	1	20
Sodium	19000		50000	67500		ug/L		97	75 - 125	1	20
Nickel	220		500	730		ug/L		102	75 - 125	1	20
Antimony	ND		500	505		ug/L		101	75 - 125	1	20
Vanadium	ND		500	494		ug/L		99	75 - 125	0	20
Zinc	92		500	605		ug/L		102	75 - 125	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-308878/1-A

Matrix: Water

Analysis Batch: 309207

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 308878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/22/17 14:00	12/26/17 16:51	1
Thallium	ND		1.0	0.20	ug/L		12/22/17 14:00	12/26/17 16:51	1

Lab Sample ID: LCS 240-308878/3-A

Matrix: Water

Analysis Batch: 309207

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 308878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	1030		ug/L		103	80 - 120
Thallium	250	252		ug/L		101	80 - 120

Lab Sample ID: 240-89734-1 MS

Matrix: Water

Analysis Batch: 309207

Client Sample ID: AMW-30 (20171220)

Prep Type: Dissolved

Prep Batch: 308878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	4.1	J	1000	1050		ug/L		105	75 - 125
Thallium	5.8		250	251		ug/L		98	75 - 125

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-89734-1 MSD

Matrix: Water

Analysis Batch: 309207

Client Sample ID: AMW-30 (20171220)

Prep Type: Dissolved

Prep Batch: 308878

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	4.1	J	1000	1050		ug/L		105	75 - 125	0	20
Thallium	5.8		250	268		ug/L		105	75 - 125	6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-308880/1-A

Matrix: Water

Analysis Batch: 309205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/22/17 14:00	12/26/17 17:47	1

Lab Sample ID: LCS 240-308880/2-A

Matrix: Water

Analysis Batch: 309205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.00		ug/L		100	80 - 120

Lab Sample ID: 240-89734-1 MS

Matrix: Water

Analysis Batch: 309205

Client Sample ID: AMW-30 (20171220)

Prep Type: Dissolved

Prep Batch: 308880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.02		ug/L		102	80 - 120

Lab Sample ID: 240-89734-1 MSD

Matrix: Water

Analysis Batch: 309205

Client Sample ID: AMW-30 (20171220)

Prep Type: Dissolved

Prep Batch: 308880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.02		ug/L		102	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-309588/1-A

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		12/29/17 11:36	12/29/17 12:15	1

Lab Sample ID: LCS 240-309588/2-A

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.606		mg/L		101	59 - 129

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-89649-S-3-B MS

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.0400	0.0418		mg/L		105	22 - 135

Lab Sample ID: 240-89649-S-3-C MSD

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 309588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.0400	0.0407		mg/L		102	22 - 135	3	40

Lab Sample ID: MRL 240-309609/12

Matrix: Water

Analysis Batch: 309609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0106		mg/L		106	70 - 130

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

GC/MS VOA

Analysis Batch: 309677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	8260B	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	8260B	
240-89734-3	AMW-02 (20171219)	Total/NA	Water	8260B	
240-89734-4	TRIP BLANKS	Total/NA	Water	8260B	
MB 240-309677/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309677/4	Lab Control Sample	Total/NA	Water	8260B	
240-89734-3 MS	AMW-02 (20171219)	Total/NA	Water	8260B	
240-89734-3 MSD	AMW-02 (20171219)	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 309044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	3510C	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	3510C	
240-89734-3	AMW-02 (20171219)	Total/NA	Water	3510C	
MB 240-309044/9-A	Method Blank	Total/NA	Water	3510C	
LCS 240-309044/10-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 309226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	8270C	309044
240-89734-2	AMW-31 (20171220)	Total/NA	Water	8270C	309044
240-89734-3	AMW-02 (20171219)	Total/NA	Water	8270C	309044
MB 240-309044/9-A	Method Blank	Total/NA	Water	8270C	309044
LCS 240-309044/10-A	Lab Control Sample	Total/NA	Water	8270C	309044

GC VOA

Analysis Batch: 308844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	WI-GRO	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	WI-GRO	
240-89734-3	AMW-02 (20171219)	Total/NA	Water	WI-GRO	
MB 240-308844/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308844/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-308844/18	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-89649-A-3 MS	Matrix Spike	Total/NA	Water	WI-GRO	
240-89649-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 308849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	3510C	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	3510C	
240-89734-3	AMW-02 (20171219)	Total/NA	Water	3510C	
MB 240-308849/13-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	3510C	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

GC Semi VOA (Continued)

Prep Batch: 308849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89649-AL-3-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
240-89649-AM-3-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 308957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	WI-DRO	308849
240-89734-3	AMW-02 (20171219)	Total/NA	Water	WI-DRO	308849
MB 240-308849/13-A	Method Blank	Total/NA	Water	WI-DRO	308849
LCS 240-308849/14-A	Lab Control Sample	Total/NA	Water	WI-DRO	308849
LCS 240-308849/15-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308849
240-89649-AL-3-A MSD	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	308849
240-89649-AM-3-A MS	Matrix Spike	Total/NA	Water	WI-DRO	308849

Prep Batch: 309059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-3	AMW-02 (20171219)	Total/NA	Water	3520C	
MB 240-309059/17-A	Method Blank	Total/NA	Water	3520C	
LCS 240-309059/18-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 309164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-2	AMW-31 (20171220)	Total/NA	Water	WI-DRO	308849

Prep Batch: 309223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	3520C	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	3520C	
MB 240-309223/15-A	Method Blank	Total/NA	Water	3520C	
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 309344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-3	AMW-02 (20171219)	Total/NA	Water	8082	309059
MB 240-309059/17-A	Method Blank	Total/NA	Water	8082	309059
LCS 240-309059/18-A	Lab Control Sample	Total/NA	Water	8082	309059

Analysis Batch: 309511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	8082	309223
MB 240-309223/15-A	Method Blank	Total/NA	Water	8082	309223
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	8082	309223

Analysis Batch: 310202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-2	AMW-31 (20171220)	Total/NA	Water	8082	309223

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Metals

Prep Batch: 308878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Dissolved	Water	3005A	
240-89734-2	AMW-31 (20171220)	Dissolved	Water	3005A	
240-89734-3	AMW-02 (20171219)	Dissolved	Water	3005A	
MB 240-308878/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-308878/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-308878/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	3005A	
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	3005A	
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	3005A	
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	3005A	

Prep Batch: 308880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Dissolved	Water	7470A	
240-89734-2	AMW-31 (20171220)	Dissolved	Water	7470A	
240-89734-3	AMW-02 (20171219)	Dissolved	Water	7470A	
MB 240-308880/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-308880/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	7470A	
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	7470A	

Analysis Batch: 309205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Dissolved	Water	7470A	308880
240-89734-2	AMW-31 (20171220)	Dissolved	Water	7470A	308880
240-89734-3	AMW-02 (20171219)	Dissolved	Water	7470A	308880
MB 240-308880/1-A	Method Blank	Total/NA	Water	7470A	308880
LCS 240-308880/2-A	Lab Control Sample	Total/NA	Water	7470A	308880
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	7470A	308880
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	7470A	308880

Analysis Batch: 309207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Dissolved	Water	6020A	308878
240-89734-2	AMW-31 (20171220)	Dissolved	Water	6020A	308878
240-89734-3	AMW-02 (20171219)	Dissolved	Water	6020A	308878
MB 240-308878/1-A	Method Blank	Total Recoverable	Water	6020A	308878
LCS 240-308878/3-A	Lab Control Sample	Total Recoverable	Water	6020A	308878
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	6020A	308878
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	6020A	308878

Analysis Batch: 309208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Dissolved	Water	6010B	308878
240-89734-2	AMW-31 (20171220)	Dissolved	Water	6010B	308878
240-89734-3	AMW-02 (20171219)	Dissolved	Water	6010B	308878
MB 240-308878/1-A	Method Blank	Total Recoverable	Water	6010B	308878
LCS 240-308878/2-A	Lab Control Sample	Total Recoverable	Water	6010B	308878
240-89734-1 MS	AMW-30 (20171220)	Dissolved	Water	6010B	308878
240-89734-1 MSD	AMW-30 (20171220)	Dissolved	Water	6010B	308878

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

General Chemistry

Prep Batch: 309588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	9012A	
240-89734-2	AMW-31 (20171220)	Total/NA	Water	9012A	
240-89734-3	AMW-02 (20171219)	Total/NA	Water	9012A	
MB 240-309588/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-309588/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89649-S-3-B MS	Matrix Spike	Total/NA	Water	9012A	
240-89649-S-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 309609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89734-1	AMW-30 (20171220)	Total/NA	Water	9012A	309588
240-89734-2	AMW-31 (20171220)	Total/NA	Water	9012A	309588
240-89734-3	AMW-02 (20171219)	Total/NA	Water	9012A	309588
MB 240-309588/1-A	Method Blank	Total/NA	Water	9012A	309588
LCS 240-309588/2-A	Lab Control Sample	Total/NA	Water	9012A	309588
MRL 240-309609/12	Lab Control Sample	Total/NA	Water	9012A	
240-89649-S-3-B MS	Matrix Spike	Total/NA	Water	9012A	309588
240-89649-S-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	309588

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-30 (20171220)

Date Collected: 12/20/17 11:42

Date Received: 12/21/17 10:45

Lab Sample ID: 240-89734-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309677	12/30/17 14:58	LEE	TAL CAN
Total/NA	Prep	3510C			309044	12/26/17 08:22	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309226	12/27/17 12:10	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 18:26	RTR	TAL CAN
Total/NA	Prep	3520C			309223	12/27/17 09:12	WKD	TAL CAN
Total/NA	Analysis	8082		1	309511	12/29/17 10:49	CSC	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 03:16	DEB	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	309208	12/26/17 17:41	KLC	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309207	12/26/17 17:00	AS1	TAL CAN
Dissolved	Prep	7470A			308880	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309205	12/26/17 17:51	DSH	TAL CAN
Total/NA	Prep	9012A			309588	12/29/17 11:36	JESW	TAL CAN
Total/NA	Analysis	9012A		1	309609	12/29/17 12:56	JESW	TAL CAN

Client Sample ID: AMW-31 (20171220)

Date Collected: 12/20/17 13:00

Date Received: 12/21/17 10:45

Lab Sample ID: 240-89734-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309677	12/30/17 15:21	LEE	TAL CAN
Total/NA	Prep	3510C			309044	12/26/17 08:22	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309226	12/27/17 12:34	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 19:07	RTR	TAL CAN
Total/NA	Prep	3520C			309223	12/27/17 09:12	WKD	TAL CAN
Total/NA	Analysis	8082		10	310202	01/06/18 05:38	KMG	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		5	309164	12/26/17 19:10	DEB	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	309208	12/26/17 18:55	KLC	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309207	12/26/17 17:35	AS1	TAL CAN
Dissolved	Prep	7470A			308880	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309205	12/26/17 18:17	DSH	TAL CAN
Total/NA	Prep	9012A			309588	12/29/17 11:36	JESW	TAL CAN
Total/NA	Analysis	9012A		1	309609	12/29/17 12:58	JESW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Client Sample ID: AMW-02 (20171219)

Lab Sample ID: 240-89734-3

Date Collected: 12/19/17 16:40

Matrix: Water

Date Received: 12/21/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309677	12/30/17 15:44	LEE	TAL CAN
Total/NA	Prep	3510C			309044	12/26/17 08:22	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309226	12/27/17 12:58	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308844	12/22/17 19:47	RTR	TAL CAN
Total/NA	Prep	3520C			309059	12/26/17 09:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	309344	12/28/17 12:35	CSC	TAL CAN
Total/NA	Prep	3510C			308849	12/22/17 08:56	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	308957	12/23/17 04:11	DEB	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	309208	12/26/17 19:00	KLC	TAL CAN
Dissolved	Prep	3005A			308878	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	309207	12/26/17 17:40	AS1	TAL CAN
Dissolved	Prep	7470A			308880	12/22/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	309205	12/26/17 18:19	DSH	TAL CAN
Total/NA	Prep	9012A			309588	12/29/17 11:36	JESW	TAL CAN
Total/NA	Analysis	9012A		1	309609	12/29/17 12:36	JESW	TAL CAN

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-89734-4

Date Collected: 12/19/17 00:00

Matrix: Water

Date Received: 12/21/17 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309677	12/30/17 16:06	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89734-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

5.6/5.3 3.4/3.1

Chain of Custody Record

Client Information Client Contact: Jim Ziska Company: ARCADIS U.S., Inc. Address: 430 First Avenue, North Suite 720 City: Minneapolis State Zip: MN 55401 Phone: 612-554-5540 Email: James.Ziska@arcadis.com Project Name: Ford TCAP - E200572 Site:		Lab PM: Denise Pohl, Denise E-Mail: denise.pohl@testamericainc.com Phone: 763-458-5253 Due Date Requested: 10 day / 2 weeks TAT Requested (days): PO #: MN000631.0001.0002 WO #: E200572 Enovis/Cadena #: E200572 Project #: 24006638 SSOW#:		Carrier Tracking No(s): COC No: 240-44588-19427.1 Page: Page 1 of 1 Job #:	
Sample Identification Sample ID: AMW-30 (20171220) AMW-31 (20171220) AMW-02 (20171219) Trip Blanks Temp Blanks		Sample Date: 12-20-17 12-20-17 12-17-17 --- ---		Sample Time: 1142 1300 1640 --- ---	
Matrix (W=water, S=solid, G=grab, BT=tissue, A=air) Preservation Code: W W W --- ---		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) VOS (8260B) SVOCs (8270C) PCBs (8062) Dissolved TAT Metals (602) Cyanide (902A) GRD (W) (mod) DRD (W) (mod)		Analysis Requested Total Number of containers: 14 14 14 14	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months		Special Instructions/Note: 240-89734 Chain of Custody	
Empty Kit Relinquished by: Relinquished by: Bright Brown Relinquished by: M. Newman Relinquished by:		Date: Date/Time: 12-20-17 1430 Date/Time: 12-20-17 1540 Date/Time:		Method of Shipment: Received by: M. Newman Date/Time: 12-20-17 1450 Date/Time: 12/21/17 1045 Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company:	

TestAmerica Canton Sample Receipt Form/Narrative Login # : 89734

Canton Facility

Client Arcadis Site Name _____ Cooler unpacked by: [Signature]

Cooler Received on 12/21/17 Opened on 12/21/17

FedEx: 1st Grd ☒ UPS ☐ FAS ☐ Clipper ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ☐

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box ☒ Client Cooler ☐ Box ☐ Other ☐

Packing material used: ☒ Bubble Wrap ☐ Foam ☒ Plastic Bag ☐ None ☐ Other _____

COOLANT: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea ☒ Yes ☐ No

-Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☐ No NA

-Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No NA

3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No

4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No

5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No

6. Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☐ No

7. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No

8. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No

9. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No

10. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No

11. Are these work share samples? ☒ Yes ☐ No

If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA pH Strip Lot# HC730269

13. Were VOAs on the COC? ☒ Yes ☐ No

14. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered ☒ Yes ☐ No

16. Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
AMW-30 (20171220)	240-89734-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-30 (20171220)	240-89734-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-30 (20171220)	240-89734-M-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-30 (20171220)	240-89734-N-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-31 (20171220)	240-89734-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-31 (20171220)	240-89734-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-31 (20171220)	240-89734-M-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-31 (20171220)	240-89734-N-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-02 (20171219)	240-89734-G-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-02 (20171219)	240-89734-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-02 (20171219)	240-89734-M-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-02 (20171219)	240-89734-N-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89849-1

Client Project/Site: Ford TCAP - E200572

For:

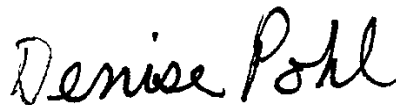
ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

1/5/2018 4:03:10 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Job ID: 240-89849-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89849-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/23/2017 10:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2), AMW-09(20171221) (240-89849-3) and TRIP BLANK (240-89849-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/03/2018.

1,1,2-Trichloro-1,2,2-trifluoroethane failed the recovery criteria high for LCS 240-309904/4. Refer to the QC report for details.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-309904 recovered outside control limits for the following analyte: 1,1,2-Trichloro-1,2,2-trifluoroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2), AMW-09(20171221) (240-89849-3), TRIP BLANK (240-89849-4) and (LCS 240-309904/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Job ID: 240-89849-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-01(20171220) (240-89849-1) and AMW-08(20171221) (240-89849-2) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/27/2017 and analyzed on 01/04/2018.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309194.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-01(20171220) (240-89849-1) and AMW-09(20171221) (240-89849-3) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/27/2017 and analyzed on 12/28/2017.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-309197/15-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) WI-DRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the WI Diesel Range Organics (C10-C28) mix:

AMW-01(20171220) (240-89849-1) and AMW-09(20171221) (240-89849-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 01/03/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample AMW-01(20171220) (240-89849-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/27/2017 and analyzed on 12/29/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid clean-up procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-01(20171220) (240-89849-1).

3414954
3154250
3361891

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-309223.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/27/2017 and analyzed on

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Job ID: 240-89849-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

12/28/2017.

Aluminum and Vanadium were detected in method blank MB 240-309251/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method(s) 6010B: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3). The continuing calibration blanks and method blanks may not support the lower PQL.

Method(s) 6010B: The initial calibration verification low (ICVL) result for batch 240-309485 was above the upper control limit for vanadium. Sample results were below the requested reporting limit and have been reported as qualified data. AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/27/2017 and analyzed on 12/28/2017.

Method(s) 6020A: The continuing calibration verification (CCV) associated with batch 240-309541 recovered above the upper control limit for thallium. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The following samples are impacted: AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/27/2017 and analyzed on 12/28/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-01(20171220) (240-89849-1), AMW-08(20171221) (240-89849-2) and AMW-09(20171221) (240-89849-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 01/03/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89849-1	AMW-01(20171220)	Water	12/20/17 16:30	12/23/17 10:40
240-89849-2	AMW-08(20171221)	Water	12/21/17 08:30	12/23/17 10:40
240-89849-3	AMW-09(20171221)	Water	12/21/17 09:00	12/23/17 10:40
240-89849-4	TRIP BLANK	Water	12/20/17 00:00	12/23/17 10:40

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.0		1.0	0.25	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.37	B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	89	J	200	1.3	ug/L	1		6010B	Dissolved
Aluminum	52	J B	200	47	ug/L	1		6010B	Dissolved
Cadmium	0.26	J	5.0	0.20	ug/L	1		6010B	Dissolved
Calcium	110000		5000	310	ug/L	1		6010B	Dissolved
Iron	1300		100	26	ug/L	1		6010B	Dissolved
Potassium	5800		5000	560	ug/L	1		6010B	Dissolved
Magnesium	52000		5000	780	ug/L	1		6010B	Dissolved
Manganese	410		15	2.1	ug/L	1		6010B	Dissolved
Sodium	4100	J	5000	560	ug/L	1		6010B	Dissolved

Client Sample ID: AMW-08(20171221)

Lab Sample ID: 240-89849-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	1.8	ug/L	1		8260B	Total/NA
Caprolactam	1.3	J	4.8	0.19	ug/L	1		8270C	Total/NA
Diethyl phthalate	1.2	J	1.9	0.57	ug/L	1		8270C	Total/NA
Barium	52	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	51000		5000	310	ug/L	1		6010B	Dissolved
Iron	48	J	100	26	ug/L	1		6010B	Dissolved
Potassium	14000		5000	560	ug/L	1		6010B	Dissolved
Magnesium	52000		5000	780	ug/L	1		6010B	Dissolved
Manganese	66		15	2.1	ug/L	1		6010B	Dissolved
Sodium	15000		5000	560	ug/L	1		6010B	Dissolved
Vanadium	7.0	J B ^	10	5.6	ug/L	1		6010B	Dissolved
Selenium	1.5	J	5.0	0.89	ug/L	1		6020A	Dissolved
Thallium	0.21	J ^	1.0	0.20	ug/L	1		6020A	Dissolved

Client Sample ID: AMW-09(20171221)

Lab Sample ID: 240-89849-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.71	J	1.0	0.34	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.37	B	0.10	0.020	mg/L	1		WI-DRO	Total/NA
Barium	82	J	200	1.3	ug/L	1		6010B	Dissolved
Cadmium	0.33	J	5.0	0.20	ug/L	1		6010B	Dissolved
Arsenic	4.4	J	10	4.1	ug/L	1		6010B	Dissolved
Calcium	210000		5000	310	ug/L	1		6010B	Dissolved
Iron	34	J	100	26	ug/L	1		6010B	Dissolved
Potassium	18000		5000	560	ug/L	1		6010B	Dissolved
Magnesium	73000		5000	780	ug/L	1		6010B	Dissolved
Manganese	63		15	2.1	ug/L	1		6010B	Dissolved
Sodium	44000		5000	560	ug/L	1		6010B	Dissolved

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89849-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Date Collected: 12/20/17 16:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			01/03/18 16:23	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			01/03/18 16:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			01/03/18 16:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	1.0	0.41	ug/L			01/03/18 16:23	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			01/03/18 16:23	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			01/03/18 16:23	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			01/03/18 16:23	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			01/03/18 16:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			01/03/18 16:23	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			01/03/18 16:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			01/03/18 16:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 16:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			01/03/18 16:23	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			01/03/18 16:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			01/03/18 16:23	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			01/03/18 16:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 16:23	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			01/03/18 16:23	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			01/03/18 16:23	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			01/03/18 16:23	1
Allyl chloride	ND		2.0	0.38	ug/L			01/03/18 16:23	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			01/03/18 16:23	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			01/03/18 16:23	1
2-Hexanone	ND		10	1.2	ug/L			01/03/18 16:23	1
Bromobenzene	ND		1.0	0.31	ug/L			01/03/18 16:23	1
Bromochloromethane	ND		1.0	0.47	ug/L			01/03/18 16:23	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			01/03/18 16:23	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			01/03/18 16:23	1
Acetone	ND		10	1.8	ug/L			01/03/18 16:23	1
Benzene	ND		1.0	0.28	ug/L			01/03/18 16:23	1
Bromoform	ND		1.0	0.43	ug/L			01/03/18 16:23	1
Bromomethane	ND		1.0	0.42	ug/L			01/03/18 16:23	1
Carbon disulfide	ND		1.0	0.34	ug/L			01/03/18 16:23	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			01/03/18 16:23	1
Chlorobenzene	ND		1.0	0.32	ug/L			01/03/18 16:23	1
Chloroethane	ND		1.0	0.41	ug/L			01/03/18 16:23	1
Chloroform	ND		1.0	0.31	ug/L			01/03/18 16:23	1
Chloromethane	ND		1.0	0.43	ug/L			01/03/18 16:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			01/03/18 16:23	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			01/03/18 16:23	1
Cyclohexane	ND		1.0	0.44	ug/L			01/03/18 16:23	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			01/03/18 16:23	1
Dibromomethane	ND		1.0	0.46	ug/L			01/03/18 16:23	1
Bromodichloromethane	ND		1.0	0.30	ug/L			01/03/18 16:23	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			01/03/18 16:23	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			01/03/18 16:23	1
Ethyl ether	ND		2.0	0.35	ug/L			01/03/18 16:23	1
Ethylbenzene	ND		1.0	0.26	ug/L			01/03/18 16:23	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/03/18 16:23	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Date Collected: 12/20/17 16:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.0		1.0	0.25	ug/L			01/03/18 16:23	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			01/03/18 16:23	1
n-Butylbenzene	ND		1.0	0.21	ug/L			01/03/18 16:23	1
Isopropylbenzene	ND		1.0	0.21	ug/L			01/03/18 16:23	1
Methyl acetate	ND		10	1.4	ug/L			01/03/18 16:23	1
N-Propylbenzene	ND		1.0	0.45	ug/L			01/03/18 16:23	1
2-Butanone (MEK)	ND		10	1.0	ug/L			01/03/18 16:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			01/03/18 16:23	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			01/03/18 16:23	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			01/03/18 16:23	1
Methylene Chloride	ND		1.0	0.53	ug/L			01/03/18 16:23	1
o-Xylene	ND		1.0	0.28	ug/L			01/03/18 16:23	1
Styrene	ND		1.0	0.23	ug/L			01/03/18 16:23	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			01/03/18 16:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			01/03/18 16:23	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			01/03/18 16:23	1
Toluene	ND		1.0	0.23	ug/L			01/03/18 16:23	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			01/03/18 16:23	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			01/03/18 16:23	1
Trichloroethene	ND		1.0	0.33	ug/L			01/03/18 16:23	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			01/03/18 16:23	1
Vinyl chloride	ND		1.0	0.45	ug/L			01/03/18 16:23	1
Methylcyclohexane	ND		1.0	0.45	ug/L			01/03/18 16:23	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			01/03/18 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		61 - 138		01/03/18 16:23	1
4-Bromofluorobenzene (Surr)	92		69 - 120		01/03/18 16:23	1
Toluene-d8 (Surr)	95		73 - 120		01/03/18 16:23	1
Dibromofluoromethane (Surr)	99		69 - 124		01/03/18 16:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.23	0.050	ug/L		12/27/17 07:22	01/04/18 18:15	1
Acenaphthylene	ND		0.23	0.055	ug/L		12/27/17 07:22	01/04/18 18:15	1
Acetophenone	ND		1.1	0.39	ug/L		12/27/17 07:22	01/04/18 18:15	1
Anthracene	ND		0.23	0.10	ug/L		12/27/17 07:22	01/04/18 18:15	1
Atrazine	ND		2.3	0.39	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzaldehyde	ND		2.3	0.44	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzo[a]anthracene	ND		0.23	0.034	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzo[b]fluoranthene	ND		0.23	0.045	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzo[k]fluoranthene	ND		0.23	0.051	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzo[g,h,i]perylene	ND		0.23	0.053	ug/L		12/27/17 07:22	01/04/18 18:15	1
Benzo[a]pyrene	ND		0.23	0.058	ug/L		12/27/17 07:22	01/04/18 18:15	1
Butyl benzyl phthalate	ND		2.3	0.30	ug/L		12/27/17 07:22	01/04/18 18:15	1
1,1'-Biphenyl	ND		1.1	0.15	ug/L		12/27/17 07:22	01/04/18 18:15	1
Bis(2-chloroethoxy)methane	ND		1.1	0.36	ug/L		12/27/17 07:22	01/04/18 18:15	1
Bis(2-chloroethyl)ether	ND		1.1	0.11	ug/L		12/27/17 07:22	01/04/18 18:15	1
Bis(2-ethylhexyl) phthalate	ND		5.7	1.9	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Bromophenyl phenyl ether	ND		2.3	0.25	ug/L		12/27/17 07:22	01/04/18 18:15	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Date Collected: 12/20/17 16:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		5.7	0.23	ug/L		12/27/17 07:22	01/04/18 18:15	1
Carbazole	ND		1.1	0.32	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Chloroaniline	ND		2.3	0.24	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Chloro-3-methylphenol	ND		2.3	0.24	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Chloronaphthalene	ND		1.1	0.11	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Chlorophenol	ND		1.1	0.33	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Chlorophenyl phenyl ether	ND		2.3	0.34	ug/L		12/27/17 07:22	01/04/18 18:15	1
Chrysene	ND		0.23	0.057	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Methylnaphthalene	ND		0.23	0.10	ug/L		12/27/17 07:22	01/04/18 18:15	1
3 & 4 Methylphenol	ND		2.3	0.91	ug/L		12/27/17 07:22	01/04/18 18:15	1
Dibenz(a,h)anthracene	ND		0.23	0.051	ug/L		12/27/17 07:22	01/04/18 18:15	1
Dibenzofuran	ND		1.1	0.023	ug/L		12/27/17 07:22	01/04/18 18:15	1
3,3'-Dichlorobenzidine	ND		5.7	0.42	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4-Dichlorophenol	ND		2.3	0.22	ug/L		12/27/17 07:22	01/04/18 18:15	1
Diethyl phthalate	ND		2.3	0.68	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4-Dimethylphenol	ND		2.3	0.28	ug/L		12/27/17 07:22	01/04/18 18:15	1
Dimethyl phthalate	ND		2.3	0.33	ug/L		12/27/17 07:22	01/04/18 18:15	1
4,6-Dinitro-2-methylphenol	ND		5.7	2.7	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4-Dinitrophenol	ND		5.7	0.36	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4-Dinitrotoluene	ND		5.7	0.28	ug/L		12/27/17 07:22	01/04/18 18:15	1
Di-n-butyl phthalate	ND		5.7	1.9	ug/L		12/27/17 07:22	01/04/18 18:15	1
Di-n-octyl phthalate	ND		2.3	0.26	ug/L		12/27/17 07:22	01/04/18 18:15	1
Fluoranthene	ND		0.23	0.051	ug/L		12/27/17 07:22	01/04/18 18:15	1
Fluorene	ND		0.23	0.046	ug/L		12/27/17 07:22	01/04/18 18:15	1
Hexachlorobenzene	ND		0.23	0.097	ug/L		12/27/17 07:22	01/04/18 18:15	1
Hexachlorobutadiene	ND		1.1	0.31	ug/L		12/27/17 07:22	01/04/18 18:15	1
Hexachlorocyclopentadiene	ND		11	0.27	ug/L		12/27/17 07:22	01/04/18 18:15	1
Hexachloroethane	ND		1.1	0.22	ug/L		12/27/17 07:22	01/04/18 18:15	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.049	ug/L		12/27/17 07:22	01/04/18 18:15	1
Isophorone	ND		1.1	0.31	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Methylphenol	ND		1.1	0.19	ug/L		12/27/17 07:22	01/04/18 18:15	1
Naphthalene	ND		0.23	0.071	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Nitroaniline	ND		2.3	0.24	ug/L		12/27/17 07:22	01/04/18 18:15	1
3-Nitroaniline	ND		2.3	0.32	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Nitroaniline	ND		2.3	0.25	ug/L		12/27/17 07:22	01/04/18 18:15	1
Nitrobenzene	ND		1.1	0.045	ug/L		12/27/17 07:22	01/04/18 18:15	1
2-Nitrophenol	ND		2.3	0.32	ug/L		12/27/17 07:22	01/04/18 18:15	1
4-Nitrophenol	ND		5.7	0.33	ug/L		12/27/17 07:22	01/04/18 18:15	1
N-Nitrosodiphenylamine	ND		1.1	0.35	ug/L		12/27/17 07:22	01/04/18 18:15	1
N-Nitrosodi-n-propylamine	ND		1.1	0.27	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,2'-oxybis[1-chloropropane]	ND		1.1	0.45	ug/L		12/27/17 07:22	01/04/18 18:15	1
Pentachlorophenol	ND		5.7	0.31	ug/L		12/27/17 07:22	01/04/18 18:15	1
Phenanthrene	ND		0.23	0.070	ug/L		12/27/17 07:22	01/04/18 18:15	1
Phenol	ND		1.1	0.68	ug/L		12/27/17 07:22	01/04/18 18:15	1
Pyrene	ND		0.23	0.048	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4,5-Trichlorophenol	ND		5.7	0.34	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,4,6-Trichlorophenol	ND		5.7	0.27	ug/L		12/27/17 07:22	01/04/18 18:15	1
2,6-Dinitrotoluene	ND		5.7	0.91	ug/L		12/27/17 07:22	01/04/18 18:15	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Date Collected: 12/20/17 16:30

Matrix: Water

Date Received: 12/23/17 10:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		38 - 120	12/27/17 07:22	01/04/18 18:15	1
2-Fluorophenol (Surr)	44		10 - 120	12/27/17 07:22	01/04/18 18:15	1
2,4,6-Tribromophenol (Surr)	102		28 - 120	12/27/17 07:22	01/04/18 18:15	1
Nitrobenzene-d5 (Surr)	71		32 - 120	12/27/17 07:22	01/04/18 18:15	1
Phenol-d5 (Surr)	29		10 - 120	12/27/17 07:22	01/04/18 18:15	1
Terphenyl-d14 (Surr)	77		23 - 127	12/27/17 07:22	01/04/18 18:15	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			01/03/18 09:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/27/17 09:12	12/29/17 11:25	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/27/17 09:12	12/29/17 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		10 - 120	12/27/17 09:12	12/29/17 11:25	1
Tetrachloro-m-xylene	60		22 - 120	12/27/17 09:12	12/29/17 11:25	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.37	B	0.095	0.019	mg/L		12/27/17 07:25	12/28/17 17:01	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	89	J	200	1.3	ug/L		12/27/17 14:00	12/28/17 17:37	1
Aluminum	52	J B	200	47	ug/L		12/27/17 14:00	12/28/17 17:37	1
Cadmium	0.26	J	5.0	0.20	ug/L		12/27/17 14:00	12/28/17 17:37	1
Chromium	ND		10	0.63	ug/L		12/27/17 14:00	12/28/17 17:37	1
Silver	ND		10	0.62	ug/L		12/27/17 14:00	12/28/17 17:37	1
Arsenic	ND		10	4.1	ug/L		12/27/17 14:00	12/28/17 17:37	1
Beryllium	ND		5.0	0.60	ug/L		12/27/17 14:00	12/28/17 17:37	1
Lead	ND		3.0	2.8	ug/L		12/27/17 14:00	12/28/17 17:37	1
Calcium	110000		5000	310	ug/L		12/27/17 14:00	12/28/17 17:37	1
Cobalt	ND		7.0	0.75	ug/L		12/27/17 14:00	12/28/17 17:37	1
Copper	ND		25	3.5	ug/L		12/27/17 14:00	12/28/17 17:37	1
Iron	1300		100	26	ug/L		12/27/17 14:00	12/28/17 17:37	1
Potassium	5800		5000	560	ug/L		12/27/17 14:00	12/28/17 17:37	1
Magnesium	52000		5000	780	ug/L		12/27/17 14:00	12/28/17 17:37	1
Manganese	410		15	2.1	ug/L		12/27/17 14:00	12/28/17 17:37	1
Sodium	4100	J	5000	560	ug/L		12/27/17 14:00	12/28/17 17:37	1
Nickel	ND		40	2.2	ug/L		12/27/17 14:00	12/28/17 17:37	1
Antimony	ND		10	7.5	ug/L		12/27/17 14:00	12/28/17 17:37	1
Vanadium	ND	^	10	5.6	ug/L		12/27/17 14:00	12/28/17 17:37	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Lab Sample ID: 240-89849-1

Date Collected: 12/20/17 16:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/27/17 14:00	12/28/17 17:37	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/27/17 14:00	12/28/17 22:19	1
Thallium	ND	^	1.0	0.20	ug/L	-	12/27/17 14:00	12/28/17 22:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/27/17 14:00	12/28/17 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	01/03/18 11:17	01/03/18 13:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-08(20171221)

Lab Sample ID: 240-89849-2

Date Collected: 12/21/17 08:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			01/03/18 18:57	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			01/03/18 18:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			01/03/18 18:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	1.0	0.41	ug/L			01/03/18 18:57	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			01/03/18 18:57	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			01/03/18 18:57	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			01/03/18 18:57	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			01/03/18 18:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			01/03/18 18:57	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			01/03/18 18:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			01/03/18 18:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 18:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			01/03/18 18:57	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			01/03/18 18:57	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			01/03/18 18:57	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			01/03/18 18:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 18:57	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			01/03/18 18:57	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			01/03/18 18:57	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			01/03/18 18:57	1
Allyl chloride	ND		2.0	0.38	ug/L			01/03/18 18:57	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			01/03/18 18:57	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			01/03/18 18:57	1
2-Hexanone	ND		10	1.2	ug/L			01/03/18 18:57	1
Bromobenzene	ND		1.0	0.31	ug/L			01/03/18 18:57	1
Bromochloromethane	ND		1.0	0.47	ug/L			01/03/18 18:57	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			01/03/18 18:57	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			01/03/18 18:57	1
Acetone	5.8	J	10	1.8	ug/L			01/03/18 18:57	1
Benzene	ND		1.0	0.28	ug/L			01/03/18 18:57	1
Bromoform	ND		1.0	0.43	ug/L			01/03/18 18:57	1
Bromomethane	ND		1.0	0.42	ug/L			01/03/18 18:57	1
Carbon disulfide	ND		1.0	0.34	ug/L			01/03/18 18:57	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			01/03/18 18:57	1
Chlorobenzene	ND		1.0	0.32	ug/L			01/03/18 18:57	1
Chloroethane	ND		1.0	0.41	ug/L			01/03/18 18:57	1
Chloroform	ND		1.0	0.31	ug/L			01/03/18 18:57	1
Chloromethane	ND		1.0	0.43	ug/L			01/03/18 18:57	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			01/03/18 18:57	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			01/03/18 18:57	1
Cyclohexane	ND		1.0	0.44	ug/L			01/03/18 18:57	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			01/03/18 18:57	1
Dibromomethane	ND		1.0	0.46	ug/L			01/03/18 18:57	1
Bromodichloromethane	ND		1.0	0.30	ug/L			01/03/18 18:57	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			01/03/18 18:57	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			01/03/18 18:57	1
Ethyl ether	ND		2.0	0.35	ug/L			01/03/18 18:57	1
Ethylbenzene	ND		1.0	0.26	ug/L			01/03/18 18:57	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/03/18 18:57	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-08(20171221)

Lab Sample ID: 240-89849-2

Date Collected: 12/21/17 08:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			01/03/18 18:57	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			01/03/18 18:57	1
n-Butylbenzene	ND		1.0	0.21	ug/L			01/03/18 18:57	1
Isopropylbenzene	ND		1.0	0.21	ug/L			01/03/18 18:57	1
Methyl acetate	ND		10	1.4	ug/L			01/03/18 18:57	1
N-Propylbenzene	ND		1.0	0.45	ug/L			01/03/18 18:57	1
2-Butanone (MEK)	ND		10	1.0	ug/L			01/03/18 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			01/03/18 18:57	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			01/03/18 18:57	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			01/03/18 18:57	1
Methylene Chloride	ND		1.0	0.53	ug/L			01/03/18 18:57	1
o-Xylene	ND		1.0	0.28	ug/L			01/03/18 18:57	1
Styrene	ND		1.0	0.23	ug/L			01/03/18 18:57	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			01/03/18 18:57	1
Tetrachloroethene	ND		1.0	0.30	ug/L			01/03/18 18:57	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			01/03/18 18:57	1
Toluene	ND		1.0	0.23	ug/L			01/03/18 18:57	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			01/03/18 18:57	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			01/03/18 18:57	1
Trichloroethene	ND		1.0	0.33	ug/L			01/03/18 18:57	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			01/03/18 18:57	1
Vinyl chloride	ND		1.0	0.45	ug/L			01/03/18 18:57	1
Methylcyclohexane	ND		1.0	0.45	ug/L			01/03/18 18:57	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			01/03/18 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 138		01/03/18 18:57	1
4-Bromofluorobenzene (Surr)	89		69 - 120		01/03/18 18:57	1
Toluene-d8 (Surr)	96		73 - 120		01/03/18 18:57	1
Dibromofluoromethane (Surr)	98		69 - 124		01/03/18 18:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/27/17 07:22	01/04/18 18:41	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/27/17 07:22	01/04/18 18:41	1
Acetophenone	ND		0.95	0.32	ug/L		12/27/17 07:22	01/04/18 18:41	1
Anthracene	ND		0.19	0.084	ug/L		12/27/17 07:22	01/04/18 18:41	1
Atrazine	ND		1.9	0.32	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/27/17 07:22	01/04/18 18:41	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/27/17 07:22	01/04/18 18:41	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/27/17 07:22	01/04/18 18:41	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/27/17 07:22	01/04/18 18:41	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/27/17 07:22	01/04/18 18:41	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/27/17 07:22	01/04/18 18:41	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/27/17 07:22	01/04/18 18:41	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-08(20171221)

Lab Sample ID: 240-89849-2

Date Collected: 12/21/17 08:30

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	1.3	J	4.8	0.19	ug/L		12/27/17 07:22	01/04/18 18:41	1
Carbazole	ND		0.95	0.27	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/27/17 07:22	01/04/18 18:41	1
Chrysene	ND		0.19	0.048	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/27/17 07:22	01/04/18 18:41	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/27/17 07:22	01/04/18 18:41	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/27/17 07:22	01/04/18 18:41	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/27/17 07:22	01/04/18 18:41	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/27/17 07:22	01/04/18 18:41	1
Diethyl phthalate	1.2	J	1.9	0.57	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/27/17 07:22	01/04/18 18:41	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/27/17 07:22	01/04/18 18:41	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/27/17 07:22	01/04/18 18:41	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/27/17 07:22	01/04/18 18:41	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/27/17 07:22	01/04/18 18:41	1
Fluoranthene	ND		0.19	0.042	ug/L		12/27/17 07:22	01/04/18 18:41	1
Fluorene	ND		0.19	0.039	ug/L		12/27/17 07:22	01/04/18 18:41	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/27/17 07:22	01/04/18 18:41	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/27/17 07:22	01/04/18 18:41	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/27/17 07:22	01/04/18 18:41	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/27/17 07:22	01/04/18 18:41	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/27/17 07:22	01/04/18 18:41	1
Isophorone	ND		0.95	0.26	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/27/17 07:22	01/04/18 18:41	1
Naphthalene	ND		0.19	0.060	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/27/17 07:22	01/04/18 18:41	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/27/17 07:22	01/04/18 18:41	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/27/17 07:22	01/04/18 18:41	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/27/17 07:22	01/04/18 18:41	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/27/17 07:22	01/04/18 18:41	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/27/17 07:22	01/04/18 18:41	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/27/17 07:22	01/04/18 18:41	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/27/17 07:22	01/04/18 18:41	1
Phenanthrene	ND		0.19	0.059	ug/L		12/27/17 07:22	01/04/18 18:41	1
Phenol	ND		0.95	0.57	ug/L		12/27/17 07:22	01/04/18 18:41	1
Pyrene	ND		0.19	0.040	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/27/17 07:22	01/04/18 18:41	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/27/17 07:22	01/04/18 18:41	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-08(20171221)

Lab Sample ID: 240-89849-2

Date Collected: 12/21/17 08:30

Matrix: Water

Date Received: 12/23/17 10:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		38 - 120	12/27/17 07:22	01/04/18 18:41	1
2-Fluorophenol (Surr)	48		10 - 120	12/27/17 07:22	01/04/18 18:41	1
2,4,6-Tribromophenol (Surr)	103		28 - 120	12/27/17 07:22	01/04/18 18:41	1
Nitrobenzene-d5 (Surr)	78		32 - 120	12/27/17 07:22	01/04/18 18:41	1
Phenol-d5 (Surr)	31		10 - 120	12/27/17 07:22	01/04/18 18:41	1
Terphenyl-d14 (Surr)	57		23 - 127	12/27/17 07:22	01/04/18 18:41	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		01/03/18 09:42	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	52	J	200	1.3	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Aluminum	ND		200	47	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Cadmium	ND		5.0	0.20	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Chromium	ND		10	0.63	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Silver	ND		10	0.62	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Arsenic	ND		10	4.1	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Beryllium	ND		5.0	0.60	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Lead	ND		3.0	2.8	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Calcium	51000		5000	310	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Cobalt	ND		7.0	0.75	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Copper	ND		25	3.5	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Iron	48	J	100	26	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Potassium	14000		5000	560	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Magnesium	52000		5000	780	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Manganese	66		15	2.1	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Sodium	15000		5000	560	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Nickel	ND		40	2.2	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Antimony	ND		10	7.5	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Vanadium	7.0	J B ^	10	5.6	ug/L	-	12/27/17 14:00	12/28/17 18:04	1
Zinc	ND		50	9.7	ug/L	-	12/27/17 14:00	12/28/17 18:04	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.5	J	5.0	0.89	ug/L	-	12/27/17 14:00	12/28/17 22:41	1
Thallium	0.21	J ^	1.0	0.20	ug/L	-	12/27/17 14:00	12/28/17 22:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/27/17 14:00	12/28/17 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L	-	01/03/18 11:17	01/03/18 13:22	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-09(20171221)

Lab Sample ID: 240-89849-3

Date Collected: 12/21/17 09:00

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			01/03/18 19:19	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			01/03/18 19:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			01/03/18 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	1.0	0.41	ug/L			01/03/18 19:19	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			01/03/18 19:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			01/03/18 19:19	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			01/03/18 19:19	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			01/03/18 19:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			01/03/18 19:19	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			01/03/18 19:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			01/03/18 19:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 19:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			01/03/18 19:19	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			01/03/18 19:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			01/03/18 19:19	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			01/03/18 19:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 19:19	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			01/03/18 19:19	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			01/03/18 19:19	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			01/03/18 19:19	1
Allyl chloride	ND		2.0	0.38	ug/L			01/03/18 19:19	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			01/03/18 19:19	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			01/03/18 19:19	1
2-Hexanone	ND		10	1.2	ug/L			01/03/18 19:19	1
Bromobenzene	ND		1.0	0.31	ug/L			01/03/18 19:19	1
Bromochloromethane	ND		1.0	0.47	ug/L			01/03/18 19:19	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			01/03/18 19:19	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			01/03/18 19:19	1
Acetone	ND		10	1.8	ug/L			01/03/18 19:19	1
Benzene	ND		1.0	0.28	ug/L			01/03/18 19:19	1
Bromoform	ND		1.0	0.43	ug/L			01/03/18 19:19	1
Bromomethane	ND		1.0	0.42	ug/L			01/03/18 19:19	1
Carbon disulfide	0.71	J	1.0	0.34	ug/L			01/03/18 19:19	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			01/03/18 19:19	1
Chlorobenzene	ND		1.0	0.32	ug/L			01/03/18 19:19	1
Chloroethane	ND		1.0	0.41	ug/L			01/03/18 19:19	1
Chloroform	ND		1.0	0.31	ug/L			01/03/18 19:19	1
Chloromethane	ND		1.0	0.43	ug/L			01/03/18 19:19	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			01/03/18 19:19	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			01/03/18 19:19	1
Cyclohexane	ND		1.0	0.44	ug/L			01/03/18 19:19	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			01/03/18 19:19	1
Dibromomethane	ND		1.0	0.46	ug/L			01/03/18 19:19	1
Bromodichloromethane	ND		1.0	0.30	ug/L			01/03/18 19:19	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			01/03/18 19:19	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			01/03/18 19:19	1
Ethyl ether	ND		2.0	0.35	ug/L			01/03/18 19:19	1
Ethylbenzene	ND		1.0	0.26	ug/L			01/03/18 19:19	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/03/18 19:19	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-09(20171221)

Lab Sample ID: 240-89849-3

Date Collected: 12/21/17 09:00

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L	-		01/03/18 19:19	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L	-		01/03/18 19:19	1
n-Butylbenzene	ND		1.0	0.21	ug/L	-		01/03/18 19:19	1
Isopropylbenzene	ND		1.0	0.21	ug/L	-		01/03/18 19:19	1
Methyl acetate	ND		10	1.4	ug/L	-		01/03/18 19:19	1
N-Propylbenzene	ND		1.0	0.45	ug/L	-		01/03/18 19:19	1
2-Butanone (MEK)	ND		10	1.0	ug/L	-		01/03/18 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L	-		01/03/18 19:19	1
sec-Butylbenzene	ND		1.0	0.27	ug/L	-		01/03/18 19:19	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L	-		01/03/18 19:19	1
Methylene Chloride	ND		1.0	0.53	ug/L	-		01/03/18 19:19	1
o-Xylene	ND		1.0	0.28	ug/L	-		01/03/18 19:19	1
Styrene	ND		1.0	0.23	ug/L	-		01/03/18 19:19	1
tert-Butylbenzene	ND		1.0	0.26	ug/L	-		01/03/18 19:19	1
Tetrachloroethene	ND		1.0	0.30	ug/L	-		01/03/18 19:19	1
Tetrahydrofuran	ND		5.0	0.84	ug/L	-		01/03/18 19:19	1
Toluene	ND		1.0	0.23	ug/L	-		01/03/18 19:19	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L	-		01/03/18 19:19	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L	-		01/03/18 19:19	1
Trichloroethene	ND		1.0	0.33	ug/L	-		01/03/18 19:19	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L	-		01/03/18 19:19	1
Vinyl chloride	ND		1.0	0.45	ug/L	-		01/03/18 19:19	1
Methylcyclohexane	ND		1.0	0.45	ug/L	-		01/03/18 19:19	1
Chlorodibromomethane	ND		1.0	0.25	ug/L	-		01/03/18 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 138		01/03/18 19:19	1
4-Bromofluorobenzene (Surr)	92		69 - 120		01/03/18 19:19	1
Toluene-d8 (Surr)	96		73 - 120		01/03/18 19:19	1
Dibromofluoromethane (Surr)	100		69 - 124		01/03/18 19:19	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		01/03/18 10:24	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.37	B	0.10	0.020	mg/L	-	12/27/17 07:25	12/28/17 17:28	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	82	J	200	1.3	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Aluminum	ND		200	47	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Cadmium	0.33	J	5.0	0.20	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Chromium	ND		10	0.63	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Silver	ND		10	0.62	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Arsenic	4.4	J	10	4.1	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Beryllium	ND		5.0	0.60	ug/L	-	12/27/17 14:00	12/28/17 18:08	1
Lead	ND		3.0	2.8	ug/L	-	12/27/17 14:00	12/28/17 18:08	1

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Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-09(20171221)

Lab Sample ID: 240-89849-3

Date Collected: 12/21/17 09:00

Matrix: Water

Date Received: 12/23/17 10:40

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	210000		5000	310	ug/L		12/27/17 14:00	12/28/17 18:08	1
Cobalt	ND		7.0	0.75	ug/L		12/27/17 14:00	12/28/17 18:08	1
Copper	ND		25	3.5	ug/L		12/27/17 14:00	12/28/17 18:08	1
Iron	34 J		100	26	ug/L		12/27/17 14:00	12/28/17 18:08	1
Potassium	18000		5000	560	ug/L		12/27/17 14:00	12/28/17 18:08	1
Magnesium	73000		5000	780	ug/L		12/27/17 14:00	12/28/17 18:08	1
Manganese	63		15	2.1	ug/L		12/27/17 14:00	12/28/17 18:08	1
Sodium	44000		5000	560	ug/L		12/27/17 14:00	12/28/17 18:08	1
Nickel	ND		40	2.2	ug/L		12/27/17 14:00	12/28/17 18:08	1
Antimony	ND		10	7.5	ug/L		12/27/17 14:00	12/28/17 18:08	1
Vanadium	ND ^		10	5.6	ug/L		12/27/17 14:00	12/28/17 18:08	1
Zinc	ND		50	9.7	ug/L		12/27/17 14:00	12/28/17 18:08	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/27/17 14:00	12/28/17 22:55	1
Thallium	ND ^		1.0	0.20	ug/L		12/27/17 14:00	12/28/17 22:55	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/27/17 14:00	12/28/17 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		01/03/18 11:17	01/03/18 13:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89849-4

Date Collected: 12/20/17 00:00

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			01/03/18 16:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			01/03/18 16:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			01/03/18 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	1.0	0.41	ug/L			01/03/18 16:44	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			01/03/18 16:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			01/03/18 16:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			01/03/18 16:44	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			01/03/18 16:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			01/03/18 16:44	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			01/03/18 16:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			01/03/18 16:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 16:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			01/03/18 16:44	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			01/03/18 16:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			01/03/18 16:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			01/03/18 16:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 16:44	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			01/03/18 16:44	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			01/03/18 16:44	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			01/03/18 16:44	1
Allyl chloride	ND		2.0	0.38	ug/L			01/03/18 16:44	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			01/03/18 16:44	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			01/03/18 16:44	1
2-Hexanone	ND		10	1.2	ug/L			01/03/18 16:44	1
Bromobenzene	ND		1.0	0.31	ug/L			01/03/18 16:44	1
Bromochloromethane	ND		1.0	0.47	ug/L			01/03/18 16:44	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			01/03/18 16:44	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			01/03/18 16:44	1
Acetone	ND		10	1.8	ug/L			01/03/18 16:44	1
Benzene	ND		1.0	0.28	ug/L			01/03/18 16:44	1
Bromoform	ND		1.0	0.43	ug/L			01/03/18 16:44	1
Bromomethane	ND		1.0	0.42	ug/L			01/03/18 16:44	1
Carbon disulfide	ND		1.0	0.34	ug/L			01/03/18 16:44	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			01/03/18 16:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			01/03/18 16:44	1
Chloroethane	ND		1.0	0.41	ug/L			01/03/18 16:44	1
Chloroform	ND		1.0	0.31	ug/L			01/03/18 16:44	1
Chloromethane	ND		1.0	0.43	ug/L			01/03/18 16:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			01/03/18 16:44	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			01/03/18 16:44	1
Cyclohexane	ND		1.0	0.44	ug/L			01/03/18 16:44	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			01/03/18 16:44	1
Dibromomethane	ND		1.0	0.46	ug/L			01/03/18 16:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			01/03/18 16:44	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			01/03/18 16:44	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			01/03/18 16:44	1
Ethyl ether	ND		1.0	0.35	ug/L			01/03/18 16:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			01/03/18 16:44	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/03/18 16:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89849-4

Date Collected: 12/20/17 00:00

Matrix: Water

Date Received: 12/23/17 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			01/03/18 16:44	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			01/03/18 16:44	1
n-Butylbenzene	ND		1.0	0.21	ug/L			01/03/18 16:44	1
Isopropylbenzene	ND		1.0	0.21	ug/L			01/03/18 16:44	1
Methyl acetate	ND		10	1.4	ug/L			01/03/18 16:44	1
N-Propylbenzene	ND		1.0	0.45	ug/L			01/03/18 16:44	1
2-Butanone (MEK)	ND		10	1.0	ug/L			01/03/18 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			01/03/18 16:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			01/03/18 16:44	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			01/03/18 16:44	1
Methylene Chloride	ND		1.0	0.53	ug/L			01/03/18 16:44	1
o-Xylene	ND		1.0	0.28	ug/L			01/03/18 16:44	1
Styrene	ND		1.0	0.23	ug/L			01/03/18 16:44	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			01/03/18 16:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			01/03/18 16:44	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			01/03/18 16:44	1
Toluene	ND		1.0	0.23	ug/L			01/03/18 16:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			01/03/18 16:44	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			01/03/18 16:44	1
Trichloroethene	ND		1.0	0.33	ug/L			01/03/18 16:44	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			01/03/18 16:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			01/03/18 16:44	1
Methylcyclohexane	ND		1.0	0.45	ug/L			01/03/18 16:44	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			01/03/18 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 138		01/03/18 16:44	1
4-Bromofluorobenzene (Surr)	88		69 - 120		01/03/18 16:44	1
Toluene-d8 (Surr)	99		73 - 120		01/03/18 16:44	1
Dibromofluoromethane (Surr)	100		69 - 124		01/03/18 16:44	1

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89846-D-5 MS	Matrix Spike	94	87	97	104
240-89846-E-5 MSD	Matrix Spike Duplicate	92	88	100	105
240-89849-1	AMW-01(20171220)	95	92	95	99
240-89849-2	AMW-08(20171221)	88	89	96	98
240-89849-3	AMW-09(20171221)	88	92	96	100
240-89849-4	TRIP BLANK	87	88	99	100
LCS 240-309904/4	Lab Control Sample	93	91	99	103
MB 240-309904/6	Method Blank	90	91	95	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89849-1	AMW-01(20171220)	87	44	102	71	29	77
240-89849-2	AMW-08(20171221)	92	48	103	78	31	57
LCS 240-309194/8-A	Lab Control Sample	104	45	100	78	32	97
MB 240-309194/7-A	Method Blank	103	39	79	71	23	101

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-120)	TCX2 (22-120)
240-89849-1	AMW-01(20171220)	37	60
LCS 240-309223/16-A	Lab Control Sample	80	72
MB 240-309223/15-A	Method Blank	77	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309904/6

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			01/03/18 13:19	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			01/03/18 13:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			01/03/18 13:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			01/03/18 13:19	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			01/03/18 13:19	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			01/03/18 13:19	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			01/03/18 13:19	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			01/03/18 13:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			01/03/18 13:19	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			01/03/18 13:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			01/03/18 13:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 13:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			01/03/18 13:19	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			01/03/18 13:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			01/03/18 13:19	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			01/03/18 13:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			01/03/18 13:19	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			01/03/18 13:19	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			01/03/18 13:19	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			01/03/18 13:19	1
Allyl chloride	ND		2.0	0.38	ug/L			01/03/18 13:19	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			01/03/18 13:19	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			01/03/18 13:19	1
2-Hexanone	ND		10	1.2	ug/L			01/03/18 13:19	1
Bromobenzene	ND		1.0	0.31	ug/L			01/03/18 13:19	1
Bromochloromethane	ND		1.0	0.47	ug/L			01/03/18 13:19	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			01/03/18 13:19	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			01/03/18 13:19	1
Acetone	ND		10	1.8	ug/L			01/03/18 13:19	1
Benzene	ND		1.0	0.28	ug/L			01/03/18 13:19	1
Bromoform	ND		1.0	0.43	ug/L			01/03/18 13:19	1
Bromomethane	ND		1.0	0.42	ug/L			01/03/18 13:19	1
Carbon disulfide	ND		1.0	0.34	ug/L			01/03/18 13:19	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			01/03/18 13:19	1
Chlorobenzene	ND		1.0	0.32	ug/L			01/03/18 13:19	1
Chloroethane	ND		1.0	0.41	ug/L			01/03/18 13:19	1
Chloroform	ND		1.0	0.31	ug/L			01/03/18 13:19	1
Chloromethane	ND		1.0	0.43	ug/L			01/03/18 13:19	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			01/03/18 13:19	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			01/03/18 13:19	1
Cyclohexane	ND		1.0	0.44	ug/L			01/03/18 13:19	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			01/03/18 13:19	1
Dibromomethane	ND		1.0	0.46	ug/L			01/03/18 13:19	1
Bromodichloromethane	ND		1.0	0.30	ug/L			01/03/18 13:19	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			01/03/18 13:19	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			01/03/18 13:19	1
Ethyl ether	ND		2.0	0.35	ug/L			01/03/18 13:19	1
Ethylbenzene	ND		1.0	0.26	ug/L			01/03/18 13:19	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309904/6

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/03/18 13:19	1
Naphthalene	ND		1.0	0.25	ug/L			01/03/18 13:19	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			01/03/18 13:19	1
n-Butylbenzene	ND		1.0	0.21	ug/L			01/03/18 13:19	1
Isopropylbenzene	ND		1.0	0.21	ug/L			01/03/18 13:19	1
Methyl acetate	ND		10	1.4	ug/L			01/03/18 13:19	1
N-Propylbenzene	ND		1.0	0.45	ug/L			01/03/18 13:19	1
2-Butanone (MEK)	ND		10	1.0	ug/L			01/03/18 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			01/03/18 13:19	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			01/03/18 13:19	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			01/03/18 13:19	1
Methylene Chloride	ND		1.0	0.53	ug/L			01/03/18 13:19	1
o-Xylene	ND		1.0	0.28	ug/L			01/03/18 13:19	1
Styrene	ND		1.0	0.23	ug/L			01/03/18 13:19	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			01/03/18 13:19	1
Tetrachloroethene	ND		1.0	0.30	ug/L			01/03/18 13:19	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			01/03/18 13:19	1
Toluene	ND		1.0	0.23	ug/L			01/03/18 13:19	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			01/03/18 13:19	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			01/03/18 13:19	1
Trichloroethene	ND		1.0	0.33	ug/L			01/03/18 13:19	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			01/03/18 13:19	1
Vinyl chloride	ND		1.0	0.45	ug/L			01/03/18 13:19	1
Methylcyclohexane	ND		1.0	0.45	ug/L			01/03/18 13:19	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			01/03/18 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		61 - 138		01/03/18 13:19	1
4-Bromofluorobenzene (Surr)	91		69 - 120		01/03/18 13:19	1
Toluene-d8 (Surr)	95		73 - 120		01/03/18 13:19	1
Dibromofluoromethane (Surr)	97		69 - 124		01/03/18 13:19	1

Lab Sample ID: LCS 240-309904/4

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	73 - 136
1,1,1-Trichloroethane	10.0	11.5		ug/L		115	64 - 147
1,1,2,2-Tetrachloroethane	10.0	8.92		ug/L		89	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	15.7	*	ug/L		157	65 - 144
1,1,2-Trichloroethane	10.0	9.06		ug/L		91	76 - 121
1,1-Dichloroethane	10.0	10.2		ug/L		102	74 - 120
1,1-Dichloroethene	10.0	12.2		ug/L		122	65 - 127
1,1-Dichloropropene	10.0	10.6		ug/L		106	80 - 122
1,2,3-Trichlorobenzene	10.0	8.30		ug/L		83	31 - 144
1,2,3-Trichloropropane	10.0	9.55		ug/L		96	53 - 134

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309904/4

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	9.00		ug/L		90	34 - 141
1,2,4-Trimethylbenzene	10.0	8.93		ug/L		89	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.39		ug/L		94	50 - 130
1,2-Dichlorobenzene	10.0	9.17		ug/L		92	80 - 120
1,2-Dichloroethane	10.0	9.82		ug/L		98	68 - 133
1,2-Dichloropropane	10.0	9.79		ug/L		98	78 - 127
1,3,5-Trimethylbenzene	10.0	9.30		ug/L		93	79 - 120
1,3-Dichlorobenzene	10.0	9.16		ug/L		92	80 - 120
1,3-Dichloropropane	10.0	8.92		ug/L		89	71 - 124
1,4-Dichlorobenzene	10.0	9.33		ug/L		93	80 - 120
Allyl chloride	10.0	11.2		ug/L		112	57 - 143
2,2-Dichloropropane	10.0	11.2		ug/L		112	32 - 178
2-Chlorotoluene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	15.8		ug/L		79	28 - 169
Bromobenzene	10.0	9.86		ug/L		99	73 - 120
Bromochloromethane	10.0	11.0		ug/L		110	78 - 120
4-Chlorotoluene	10.0	9.68		ug/L		97	79 - 120
p-Isopropyltoluene	10.0	8.96		ug/L		90	78 - 125
Acetone	20.0	22.6		ug/L		113	35 - 131
Benzene	10.0	9.77		ug/L		98	79 - 120
Bromoform	10.0	9.46		ug/L		95	55 - 145
Bromomethane	10.0	8.83		ug/L		88	17 - 158
Carbon disulfide	10.0	12.5		ug/L		125	49 - 141
Carbon tetrachloride	10.0	12.6		ug/L		126	55 - 171
Chlorobenzene	10.0	9.43		ug/L		94	80 - 120
Chloroethane	10.0	5.64		ug/L		56	10 - 149
Chloroform	10.0	10.4		ug/L		104	80 - 120
Chloromethane	10.0	8.77		ug/L		88	59 - 124
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	77 - 120
cis-1,3-Dichloropropene	10.0	9.28		ug/L		93	75 - 120
Cyclohexane	10.0	10.9		ug/L		109	66 - 135
Hexachlorobutadiene	10.0	8.32		ug/L		83	36 - 146
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	9.22		ug/L		92	79 - 125
Dichlorodifluoromethane	10.0	8.26		ug/L		83	42 - 141
Dichlorofluoromethane	10.0	10.6		ug/L		106	28 - 138
Ethyl ether	10.0	10.9		ug/L		109	72 - 125
Ethylbenzene	10.0	9.27		ug/L		93	80 - 120
1,2-Dibromoethane	10.0	9.34		ug/L		93	80 - 120
Naphthalene	10.0	8.22		ug/L		82	31 - 127
m-Xylene & p-Xylene	10.0	9.09		ug/L		91	80 - 120
n-Butylbenzene	10.0	8.27		ug/L		83	60 - 137
Isopropylbenzene	10.0	9.43		ug/L		94	80 - 128
Methyl acetate	20.0	17.6		ug/L		88	63 - 137
N-Propylbenzene	10.0	9.80		ug/L		98	76 - 120
2-Butanone (MEK)	20.0	20.1		ug/L		101	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	16.6		ug/L		83	53 - 144
sec-Butylbenzene	10.0	9.00		ug/L		90	76 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309904/4

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	10.0	9.93		ug/L		99	73 - 120
Methylene Chloride	10.0	10.1		ug/L		101	64 - 140
o-Xylene	10.0	9.56		ug/L		96	80 - 120
Styrene	10.0	8.95		ug/L		90	80 - 121
tert-Butylbenzene	10.0	10.3		ug/L		103	79 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	80 - 122
Tetrahydrofuran	20.0	18.1		ug/L		90	63 - 131
Toluene	10.0	9.15		ug/L		91	78 - 120
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	74 - 124
trans-1,3-Dichloropropene	10.0	8.06		ug/L		81	67 - 120
Trichloroethene	10.0	10.8		ug/L		108	76 - 124
Trichlorofluoromethane	10.0	16.4		ug/L		164	27 - 176
Vinyl chloride	10.0	10.1		ug/L		101	65 - 124
Methylcyclohexane	10.0	10.8		ug/L		108	63 - 141
Chlorodibromomethane	10.0	9.63		ug/L		96	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		61 - 138
4-Bromofluorobenzene (Surr)	91		69 - 120
Toluene-d8 (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	103		69 - 124

Lab Sample ID: 240-89846-D-5 MS

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		10.0	9.41		ug/L		94	64 - 138
Benzene	ND		10.0	9.19		ug/L		92	69 - 127
Ethylbenzene	ND		10.0	9.19		ug/L		92	72 - 121
Naphthalene	ND		10.0	8.68		ug/L		87	28 - 150
m-Xylene & p-Xylene	ND		10.0	8.82		ug/L		88	70 - 121
Isopropylbenzene	ND		10.0	9.03		ug/L		90	70 - 132
Methyl tert butyl ether	ND		10.0	9.60		ug/L		96	67 - 125
o-Xylene	ND		10.0	9.03		ug/L		90	71 - 125
Toluene	ND		10.0	9.10		ug/L		91	69 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		61 - 138
4-Bromofluorobenzene (Surr)	87		69 - 120
Toluene-d8 (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	104		69 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89846-E-5 MSD

Matrix: Water

Analysis Batch: 309904

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		10.0	9.66		ug/L		97	64 - 138	3	11
Benzene	ND		10.0	9.70		ug/L		97	69 - 127	5	10
Ethylbenzene	ND		10.0	10.1		ug/L		101	72 - 121	10	15
Naphthalene	ND		10.0	9.04		ug/L		90	28 - 150	4	35
m-Xylene & p-Xylene	ND		10.0	9.55		ug/L		96	70 - 121	8	15
Isopropylbenzene	ND		10.0	9.79		ug/L		98	70 - 132	8	16
Methyl tert butyl ether	ND		10.0	9.97		ug/L		100	67 - 125	4	12
o-Xylene	ND		10.0	9.81		ug/L		98	71 - 125	8	15
Toluene	ND		10.0	9.65		ug/L		96	69 - 125	6	14

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		61 - 138
4-Bromofluorobenzene (Surr)	88		69 - 120
Toluene-d8 (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	105		69 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309194/7-A

Matrix: Water

Analysis Batch: 309361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/27/17 07:22	12/28/17 10:51	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/27/17 07:22	12/28/17 10:51	1
Acetophenone	ND		1.0	0.34	ug/L		12/27/17 07:22	12/28/17 10:51	1
Anthracene	ND		0.20	0.088	ug/L		12/27/17 07:22	12/28/17 10:51	1
Atrazine	ND		2.0	0.34	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/27/17 07:22	12/28/17 10:51	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/27/17 07:22	12/28/17 10:51	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/27/17 07:22	12/28/17 10:51	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/27/17 07:22	12/28/17 10:51	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/27/17 07:22	12/28/17 10:51	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/27/17 07:22	12/28/17 10:51	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/27/17 07:22	12/28/17 10:51	1
Caprolactam	ND		5.0	0.20	ug/L		12/27/17 07:22	12/28/17 10:51	1
Carbazole	ND		1.0	0.28	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/27/17 07:22	12/28/17 10:51	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309194/7-A

Matrix: Water

Analysis Batch: 309361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.20	0.050	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/27/17 07:22	12/28/17 10:51	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/27/17 07:22	12/28/17 10:51	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/27/17 07:22	12/28/17 10:51	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/27/17 07:22	12/28/17 10:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/27/17 07:22	12/28/17 10:51	1
Diethyl phthalate	ND		2.0	0.60	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/27/17 07:22	12/28/17 10:51	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/27/17 07:22	12/28/17 10:51	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/27/17 07:22	12/28/17 10:51	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/27/17 07:22	12/28/17 10:51	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/27/17 07:22	12/28/17 10:51	1
Fluoranthene	ND		0.20	0.045	ug/L		12/27/17 07:22	12/28/17 10:51	1
Fluorene	ND		0.20	0.041	ug/L		12/27/17 07:22	12/28/17 10:51	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/27/17 07:22	12/28/17 10:51	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/27/17 07:22	12/28/17 10:51	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/27/17 07:22	12/28/17 10:51	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/27/17 07:22	12/28/17 10:51	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/27/17 07:22	12/28/17 10:51	1
Isophorone	ND		1.0	0.27	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/27/17 07:22	12/28/17 10:51	1
Naphthalene	ND		0.20	0.063	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/27/17 07:22	12/28/17 10:51	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/27/17 07:22	12/28/17 10:51	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/27/17 07:22	12/28/17 10:51	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/27/17 07:22	12/28/17 10:51	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/27/17 07:22	12/28/17 10:51	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/27/17 07:22	12/28/17 10:51	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/27/17 07:22	12/28/17 10:51	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/27/17 07:22	12/28/17 10:51	1
Phenanthrene	ND		0.20	0.062	ug/L		12/27/17 07:22	12/28/17 10:51	1
Phenol	ND		1.0	0.60	ug/L		12/27/17 07:22	12/28/17 10:51	1
Pyrene	ND		0.20	0.042	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/27/17 07:22	12/28/17 10:51	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/27/17 07:22	12/28/17 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	103		38 - 120	12/27/17 07:22	12/28/17 10:51	1
2-Fluorophenol (Surr)	39		10 - 120	12/27/17 07:22	12/28/17 10:51	1
2,4,6-Tribromophenol (Surr)	79		28 - 120	12/27/17 07:22	12/28/17 10:51	1
Nitrobenzene-d5 (Surr)	71		32 - 120	12/27/17 07:22	12/28/17 10:51	1
Phenol-d5 (Surr)	23		10 - 120	12/27/17 07:22	12/28/17 10:51	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309194/7-A

Matrix: Water

Analysis Batch: 309361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309194

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	101		23 - 127	12/27/17 07:22	12/28/17 10:51	1

Lab Sample ID: LCS 240-309194/8-A

Matrix: Water

Analysis Batch: 309361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	15.6		ug/L		78	54 - 120
Acenaphthylene	20.0	15.3		ug/L		77	53 - 120
Acetophenone	20.0	15.2		ug/L		76	56 - 120
Anthracene	20.0	16.9		ug/L		84	56 - 120
Atrazine	40.0	42.6		ug/L		107	61 - 127
Benzaldehyde	40.0	30.3		ug/L		76	47 - 134
Benzo[a]anthracene	20.0	16.8		ug/L		84	54 - 120
Benzo[b]fluoranthene	20.0	15.8		ug/L		79	53 - 120
Benzo[k]fluoranthene	20.0	17.0		ug/L		85	55 - 120
Benzo[g,h,i]perylene	20.0	18.2		ug/L		91	55 - 120
Benzo[a]pyrene	20.0	15.3		ug/L		77	54 - 120
Butyl benzyl phthalate	20.0	16.0		ug/L		80	51 - 120
1,1'-Biphenyl	20.0	19.6		ug/L		98	53 - 120
Bis(2-chloroethoxy)methane	20.0	14.6		ug/L		73	56 - 120
Bis(2-chloroethyl)ether	20.0	12.9		ug/L		64	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	14.0		ug/L		70	50 - 120
4-Bromophenyl phenyl ether	20.0	15.8		ug/L		79	54 - 120
Caprolactam	40.0	4.42	J	ug/L		11	10 - 120
Carbazole	20.0	19.0		ug/L		95	62 - 120
4-Chloroaniline	20.0	2.42		ug/L		12	10 - 120
4-Chloro-3-methylphenol	20.0	16.7		ug/L		83	54 - 120
2-Chloronaphthalene	20.0	18.8		ug/L		94	53 - 120
2-Chlorophenol	20.0	14.5		ug/L		73	53 - 120
4-Chlorophenyl phenyl ether	20.0	16.3		ug/L		82	56 - 120
Chrysene	20.0	16.9		ug/L		84	56 - 120
2-Methylnaphthalene	20.0	14.7		ug/L		73	54 - 120
3 & 4 Methylphenol	20.0	11.5		ug/L		58	40 - 120
Dibenz(a,h)anthracene	20.0	16.1		ug/L		80	52 - 120
Dibenzofuran	20.0	16.1		ug/L		81	55 - 120
3,3'-Dichlorobenzidine	40.0	41.3		ug/L		103	57 - 120
2,4-Dichlorophenol	20.0	15.1		ug/L		76	55 - 120
Diethyl phthalate	20.0	17.8		ug/L		89	42 - 132
2,4-Dimethylphenol	20.0	14.6		ug/L		73	52 - 120
Dimethyl phthalate	20.0	16.3		ug/L		82	56 - 120
4,6-Dinitro-2-methylphenol	40.0	26.7		ug/L		67	36 - 120
2,4-Dinitrophenol	40.0	27.3		ug/L		68	12 - 120
2,4-Dinitrotoluene	20.0	17.4		ug/L		87	60 - 120
Di-n-butyl phthalate	20.0	18.3		ug/L		92	61 - 120
Di-n-octyl phthalate	20.0	14.0		ug/L		70	58 - 120
Fluoranthene	20.0	15.9		ug/L		79	58 - 120
Fluorene	20.0	15.9		ug/L		80	56 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309194/8-A

Matrix: Water

Analysis Batch: 309361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	20.0	15.7		ug/L		79	51 - 120
Hexachlorobutadiene	20.0	13.6		ug/L		68	44 - 120
Hexachlorocyclopentadiene	20.0	13.3		ug/L		66	19 - 120
Hexachloroethane	20.0	13.1		ug/L		65	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.9		ug/L		80	54 - 120
Isophorone	20.0	14.1		ug/L		70	55 - 120
2-Methylphenol	20.0	12.8		ug/L		64	46 - 120
Naphthalene	20.0	13.8		ug/L		69	53 - 120
2-Nitroaniline	20.0	15.8		ug/L		79	51 - 120
3-Nitroaniline	20.0	14.1		ug/L		70	53 - 120
4-Nitroaniline	20.0	16.7		ug/L		83	55 - 120
Nitrobenzene	20.0	14.1		ug/L		70	55 - 120
2-Nitrophenol	20.0	14.9		ug/L		74	54 - 120
4-Nitrophenol	40.0	14.5		ug/L		36	10 - 120
N-Nitrosodiphenylamine	20.0	16.2		ug/L		81	55 - 120
N-Nitrosodi-n-propylamine	20.0	14.6		ug/L		73	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.3		ug/L		66	45 - 120
Pentachlorophenol	40.0	28.3		ug/L		71	30 - 120
Phenanthrene	20.0	16.5		ug/L		82	55 - 120
Phenol	20.0	6.22		ug/L		31	10 - 120
Pyrene	20.0	18.1		ug/L		91	57 - 120
2,4,5-Trichlorophenol	20.0	19.4		ug/L		97	54 - 120
2,4,6-Trichlorophenol	20.0	18.3		ug/L		92	54 - 120
2,6-Dinitrotoluene	20.0	17.3		ug/L		86	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	104		38 - 120
2-Fluorophenol (Surr)	45		10 - 120
2,4,6-Tribromophenol (Surr)	100		28 - 120
Nitrobenzene-d5 (Surr)	78		32 - 120
Phenol-d5 (Surr)	32		10 - 120
Terphenyl-d14 (Surr)	97		23 - 127

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-309870/4

Matrix: Water

Analysis Batch: 309870

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			01/03/18 07:36	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 240-309870/5

Matrix: Water

Analysis Batch: 309870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	822		ug/L		103	80 - 120

Lab Sample ID: LCSD 240-309870/9

Matrix: Water

Analysis Batch: 309870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	781		ug/L		98	80 - 120	5	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-309223/15-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/27/17 09:12	12/29/17 07:18	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/27/17 09:12	12/29/17 07:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		10 - 120	12/27/17 09:12	12/29/17 07:18	1
Tetrachloro-m-xylene	79		22 - 120	12/27/17 09:12	12/29/17 07:18	1

Lab Sample ID: LCS 240-309223/16-A

Matrix: Water

Analysis Batch: 309511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.75		ug/L		70	28 - 120
Aroclor-1260	2.50	1.98		ug/L		79	30 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		10 - 120
Tetrachloro-m-xylene	72		22 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-309197/15-A
Matrix: Water
Analysis Batch: 309465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0256	J	0.10	0.020	mg/L		12/27/17 07:25	12/28/17 16:07	1

Lab Sample ID: LCS 240-309197/16-A
Matrix: Water
Analysis Batch: 309465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.432		mg/L		86	75 - 115

Lab Sample ID: LCSD 240-309197/17-A
Matrix: Water
Analysis Batch: 309465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.429		mg/L		86	75 - 115	1	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) - RE

Lab Sample ID: 240-89649-AK-3-A MS
Matrix: Water
Analysis Batch: 309465

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28) - RE	0.17	B	0.980	0.997		mg/L		85	60 - 130

Lab Sample ID: 240-89649-AK-3-B MSD
Matrix: Water
Analysis Batch: 309465

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 309197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28) - RE	0.17	B	0.980	0.940		mg/L		79	60 - 130	6	25

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-309251/1-A
Matrix: Water
Analysis Batch: 309485

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 309251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	1.3	ug/L		12/27/17 14:00	12/28/17 17:28	1
Aluminum	49.0	J	200	47	ug/L		12/27/17 14:00	12/28/17 17:28	1
Cadmium	ND		5.0	0.20	ug/L		12/27/17 14:00	12/28/17 17:28	1
Chromium	ND		10	0.63	ug/L		12/27/17 14:00	12/28/17 17:28	1
Silver	ND		10	0.62	ug/L		12/27/17 14:00	12/28/17 17:28	1
Arsenic	ND		10	4.1	ug/L		12/27/17 14:00	12/28/17 17:28	1
Beryllium	ND		5.0	0.60	ug/L		12/27/17 14:00	12/28/17 17:28	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-309251/1-A

Matrix: Water

Analysis Batch: 309485

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 309251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	2.8	ug/L		12/27/17 14:00	12/28/17 17:28	1
Calcium	ND		5000	310	ug/L		12/27/17 14:00	12/28/17 17:28	1
Cobalt	ND		7.0	0.75	ug/L		12/27/17 14:00	12/28/17 17:28	1
Copper	ND		25	3.5	ug/L		12/27/17 14:00	12/28/17 17:28	1
Iron	ND		100	26	ug/L		12/27/17 14:00	12/28/17 17:28	1
Potassium	ND		5000	560	ug/L		12/27/17 14:00	12/28/17 17:28	1
Magnesium	ND		5000	780	ug/L		12/27/17 14:00	12/28/17 17:28	1
Manganese	ND		15	2.1	ug/L		12/27/17 14:00	12/28/17 17:28	1
Sodium	ND		5000	560	ug/L		12/27/17 14:00	12/28/17 17:28	1
Nickel	ND		40	2.2	ug/L		12/27/17 14:00	12/28/17 17:28	1
Antimony	ND		10	7.5	ug/L		12/27/17 14:00	12/28/17 17:28	1
Vanadium	7.20	J ^	10	5.6	ug/L		12/27/17 14:00	12/28/17 17:28	1
Zinc	ND		50	9.7	ug/L		12/27/17 14:00	12/28/17 17:28	1

Lab Sample ID: LCS 240-309251/2-A

Matrix: Water

Analysis Batch: 309485

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 309251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	1990		ug/L		100	80 - 120
Aluminum	2000	2070		ug/L		104	80 - 120
Cadmium	50.0	52.6		ug/L		105	80 - 120
Chromium	200	207		ug/L		104	80 - 120
Silver	50.0	51.8		ug/L		104	80 - 120
Arsenic	2000	2140		ug/L		107	80 - 120
Beryllium	50.0	50.9		ug/L		102	80 - 120
Lead	500	496		ug/L		99	80 - 120
Calcium	50000	51300		ug/L		103	80 - 120
Cobalt	500	506		ug/L		101	80 - 120
Copper	250	256		ug/L		102	80 - 120
Iron	1000	1040		ug/L		104	80 - 120
Potassium	50000	51000		ug/L		102	80 - 120
Magnesium	50000	51500		ug/L		103	80 - 120
Manganese	500	509		ug/L		102	80 - 120
Sodium	50000	51800		ug/L		104	80 - 120
Nickel	500	516		ug/L		103	80 - 120
Antimony	500	521		ug/L		104	80 - 120
Vanadium	500	506	^	ug/L		101	80 - 120
Zinc	500	530		ug/L		106	80 - 120

Lab Sample ID: 240-89849-1 MS

Matrix: Water

Analysis Batch: 309485

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	89	J	2000	1990		ug/L		95	75 - 125
Aluminum	52	J B	2000	2060		ug/L		100	75 - 125
Cadmium	0.26	J	50.0	50.7		ug/L		101	75 - 125
Chromium	ND		200	194		ug/L		97	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89849-1 MS

Matrix: Water

Analysis Batch: 309485

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		50.0	48.3		ug/L		97	75 - 125
Arsenic	ND		2000	2090		ug/L		104	75 - 125
Beryllium	ND		50.0	48.8		ug/L		98	75 - 125
Lead	ND		500	469		ug/L		94	75 - 125
Calcium	110000		50000	162000		ug/L		96	75 - 125
Cobalt	ND		500	491		ug/L		98	75 - 125
Copper	ND		250	242		ug/L		97	75 - 125
Iron	1300		1000	2280		ug/L		95	75 - 125
Potassium	5800		50000	54900		ug/L		98	75 - 125
Magnesium	52000		50000	99800		ug/L		96	75 - 125
Manganese	410		500	878		ug/L		94	75 - 125
Sodium	4100	J	50000	54000		ug/L		100	75 - 125
Nickel	ND		500	497		ug/L		99	75 - 125
Antimony	ND		500	512		ug/L		102	75 - 125
Vanadium	ND	^	500	483	^	ug/L		97	75 - 125
Zinc	ND		500	513		ug/L		103	75 - 125

Lab Sample ID: 240-89849-1 MSD

Matrix: Water

Analysis Batch: 309485

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	89	J	2000	2010		ug/L		96	75 - 125	1	20
Aluminum	52	J B	2000	2100		ug/L		102	75 - 125	2	20
Cadmium	0.26	J	50.0	51.1		ug/L		102	75 - 125	1	20
Chromium	ND		200	195		ug/L		98	75 - 125	1	20
Silver	ND		50.0	49.6		ug/L		99	75 - 125	3	20
Arsenic	ND		2000	2090		ug/L		105	75 - 125	0	20
Beryllium	ND		50.0	49.0		ug/L		98	75 - 125	1	20
Lead	ND		500	469		ug/L		94	75 - 125	0	20
Calcium	110000		50000	164000		ug/L		100	75 - 125	1	20
Cobalt	ND		500	489		ug/L		98	75 - 125	0	20
Copper	ND		250	248		ug/L		99	75 - 125	2	20
Iron	1300		1000	2330		ug/L		100	75 - 125	2	20
Potassium	5800		50000	55700		ug/L		100	75 - 125	1	20
Magnesium	52000		50000	101000		ug/L		99	75 - 125	1	20
Manganese	410		500	894		ug/L		97	75 - 125	2	20
Sodium	4100	J	50000	54600		ug/L		101	75 - 125	1	20
Nickel	ND		500	497		ug/L		99	75 - 125	0	20
Antimony	ND		500	515		ug/L		103	75 - 125	1	20
Vanadium	ND	^	500	492	^	ug/L		98	75 - 125	2	20
Zinc	ND		500	506		ug/L		101	75 - 125	1	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-309251/1-A

Matrix: Water

Analysis Batch: 309541

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 309251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/27/17 14:00	12/28/17 14:28	1
Thallium	ND		1.0	0.20	ug/L		12/27/17 14:00	12/28/17 14:28	1

Lab Sample ID: LCS 240-309251/19-A

Matrix: Water

Analysis Batch: 309541

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 309251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	964		ug/L		96	80 - 120
Thallium	250	263		ug/L		105	80 - 120

Lab Sample ID: 240-89849-1 MS

Matrix: Water

Analysis Batch: 309541

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	988		ug/L		99	75 - 125
Thallium	ND	^	250	261	^	ug/L		105	75 - 125

Lab Sample ID: 240-89849-1 MSD

Matrix: Water

Analysis Batch: 309541

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	977		ug/L		98	75 - 125	1	20
Thallium	ND	^	250	257	^	ug/L		103	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-309259/1-A

Matrix: Water

Analysis Batch: 309461

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/27/17 14:00	12/28/17 10:42	1

Lab Sample ID: LCS 240-309259/2-A

Matrix: Water

Analysis Batch: 309461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.81		ug/L		96	80 - 120

Lab Sample ID: 240-89849-1 MS

Matrix: Water

Analysis Batch: 309461

Client Sample ID: AMW-01(20171220)

Prep Type: Dissolved

Prep Batch: 309259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.972		ug/L		97	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-89849-1 MSD
Matrix: Water
Analysis Batch: 309461

Client Sample ID: AMW-01(20171220)
Prep Type: Dissolved
Prep Batch: 309259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.879		ug/L		88	80 - 120	10	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-309927/1-A
Matrix: Water
Analysis Batch: 309963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		01/03/18 11:17	01/03/18 12:27	1

Lab Sample ID: LCS 240-309927/2-A
Matrix: Water
Analysis Batch: 309963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.567		mg/L		95	59 - 129

Lab Sample ID: 190-15191-B-2-B MS
Matrix: Water
Analysis Batch: 309963

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.015		0.0400	0.0579		mg/L		107	22 - 135

Lab Sample ID: 190-15191-B-2-C MSD
Matrix: Water
Analysis Batch: 309963

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 309927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.015		0.0400	0.0515		mg/L		91	22 - 135	12	40

Lab Sample ID: MRL 240-309963/12
Matrix: Water
Analysis Batch: 309963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00830	J	mg/L		83	70 - 130

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

GC/MS VOA

Analysis Batch: 309904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	8260B	
240-89849-2	AMW-08(20171221)	Total/NA	Water	8260B	
240-89849-3	AMW-09(20171221)	Total/NA	Water	8260B	
240-89849-4	TRIP BLANK	Total/NA	Water	8260B	
MB 240-309904/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309904/4	Lab Control Sample	Total/NA	Water	8260B	
240-89846-D-5 MS	Matrix Spike	Total/NA	Water	8260B	
240-89846-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 309194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	3510C	
240-89849-2	AMW-08(20171221)	Total/NA	Water	3510C	
MB 240-309194/7-A	Method Blank	Total/NA	Water	3510C	
LCS 240-309194/8-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 309361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-309194/7-A	Method Blank	Total/NA	Water	8270C	309194
LCS 240-309194/8-A	Lab Control Sample	Total/NA	Water	8270C	309194

Analysis Batch: 310073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	8270C	309194
240-89849-2	AMW-08(20171221)	Total/NA	Water	8270C	309194

GC VOA

Analysis Batch: 309870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	WI-GRO	
240-89849-2	AMW-08(20171221)	Total/NA	Water	WI-GRO	
240-89849-3	AMW-09(20171221)	Total/NA	Water	WI-GRO	
MB 240-309870/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-309870/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-309870/9	Lab Control Sample Dup	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 309197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	3510C	
240-89849-3	AMW-09(20171221)	Total/NA	Water	3510C	
MB 240-309197/15-A	Method Blank	Total/NA	Water	3510C	
LCS 240-309197/16-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-309197/17-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89649-AK-3-A MS - RE	Matrix Spike	Total/NA	Water	3510C	
240-89649-AK-3-B MSD - RE	Matrix Spike Duplicate	Total/NA	Water	3510C	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Prep Batch: 309223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	3520C	
MB 240-309223/15-A	Method Blank	Total/NA	Water	3520C	
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 309465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	WI-DRO	309197
240-89849-3	AMW-09(20171221)	Total/NA	Water	WI-DRO	309197
MB 240-309197/15-A	Method Blank	Total/NA	Water	WI-DRO	309197
LCS 240-309197/16-A	Lab Control Sample	Total/NA	Water	WI-DRO	309197
LCSD 240-309197/17-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	309197
240-89649-AK-3-A MS - RE	Matrix Spike	Total/NA	Water	WI-DRO	309197
240-89649-AK-3-B MSD - RE	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	309197

Analysis Batch: 309511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	8082	309223
MB 240-309223/15-A	Method Blank	Total/NA	Water	8082	309223
LCS 240-309223/16-A	Lab Control Sample	Total/NA	Water	8082	309223

Metals

Prep Batch: 309251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Dissolved	Water	3005A	
240-89849-2	AMW-08(20171221)	Dissolved	Water	3005A	
240-89849-3	AMW-09(20171221)	Dissolved	Water	3005A	
MB 240-309251/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-309251/19-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-309251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	3005A	
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	3005A	
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	3005A	
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	3005A	

Prep Batch: 309259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Dissolved	Water	7470A	
240-89849-2	AMW-08(20171221)	Dissolved	Water	7470A	
240-89849-3	AMW-09(20171221)	Dissolved	Water	7470A	
MB 240-309259/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-309259/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	7470A	
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	7470A	

Analysis Batch: 309461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Dissolved	Water	7470A	309259
240-89849-2	AMW-08(20171221)	Dissolved	Water	7470A	309259
240-89849-3	AMW-09(20171221)	Dissolved	Water	7470A	309259
MB 240-309259/1-A	Method Blank	Total/NA	Water	7470A	309259
LCS 240-309259/2-A	Lab Control Sample	Total/NA	Water	7470A	309259
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	7470A	309259

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Metals (Continued)

Analysis Batch: 309461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	7470A	309259

Analysis Batch: 309485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Dissolved	Water	6010B	309251
240-89849-2	AMW-08(20171221)	Dissolved	Water	6010B	309251
240-89849-3	AMW-09(20171221)	Dissolved	Water	6010B	309251
MB 240-309251/1-A	Method Blank	Total Recoverable	Water	6010B	309251
LCS 240-309251/2-A	Lab Control Sample	Total Recoverable	Water	6010B	309251
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	6010B	309251
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	6010B	309251

Analysis Batch: 309541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Dissolved	Water	6020A	309251
240-89849-2	AMW-08(20171221)	Dissolved	Water	6020A	309251
240-89849-3	AMW-09(20171221)	Dissolved	Water	6020A	309251
MB 240-309251/1-A	Method Blank	Total Recoverable	Water	6020A	309251
LCS 240-309251/19-A	Lab Control Sample	Total Recoverable	Water	6020A	309251
240-89849-1 MS	AMW-01(20171220)	Dissolved	Water	6020A	309251
240-89849-1 MSD	AMW-01(20171220)	Dissolved	Water	6020A	309251

General Chemistry

Prep Batch: 309927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	9012A	
240-89849-2	AMW-08(20171221)	Total/NA	Water	9012A	
240-89849-3	AMW-09(20171221)	Total/NA	Water	9012A	
MB 240-309927/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-309927/2-A	Lab Control Sample	Total/NA	Water	9012A	
190-15191-B-2-B MS	Matrix Spike	Total/NA	Water	9012A	
190-15191-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 309963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89849-1	AMW-01(20171220)	Total/NA	Water	9012A	309927
240-89849-2	AMW-08(20171221)	Total/NA	Water	9012A	309927
240-89849-3	AMW-09(20171221)	Total/NA	Water	9012A	309927
MB 240-309927/1-A	Method Blank	Total/NA	Water	9012A	309927
LCS 240-309927/2-A	Lab Control Sample	Total/NA	Water	9012A	309927
MRL 240-309963/12	Lab Control Sample	Total/NA	Water	9012A	
190-15191-B-2-B MS	Matrix Spike	Total/NA	Water	9012A	309927
190-15191-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	309927

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-01(20171220)

Date Collected: 12/20/17 16:30

Date Received: 12/23/17 10:40

Lab Sample ID: 240-89849-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309904	01/03/18 16:23	LRW	TAL CAN
Total/NA	Prep	3510C			309194	12/27/17 07:22	BMB	TAL CAN
Total/NA	Analysis	8270C		1	310073	01/04/18 18:15	MRU	TAL CAN
Total/NA	Analysis	WI-GRO		1	309870	01/03/18 09:01	RTR	TAL CAN
Total/NA	Prep	3520C			309223	12/27/17 09:12	WKD	TAL CAN
Total/NA	Analysis	8082		1	309511	12/29/17 11:25	CSC	TAL CAN
Total/NA	Prep	3510C			309197	12/27/17 07:25	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	309465	12/28/17 17:01	DEB	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6010B		1	309485	12/28/17 17:37	KLC	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6020A		1	309541	12/28/17 22:19	AS1	TAL CAN
Dissolved	Prep	7470A			309259	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	7470A		1	309461	12/28/17 10:46	DSH	TAL CAN
Total/NA	Prep	9012A			309927	01/03/18 11:17	MMM	TAL CAN
Total/NA	Analysis	9012A		1	309963	01/03/18 13:20	MMM	TAL CAN

Client Sample ID: AMW-08(20171221)

Date Collected: 12/21/17 08:30

Date Received: 12/23/17 10:40

Lab Sample ID: 240-89849-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309904	01/03/18 18:57	LRW	TAL CAN
Total/NA	Prep	3510C			309194	12/27/17 07:22	BMB	TAL CAN
Total/NA	Analysis	8270C		1	310073	01/04/18 18:41	MRU	TAL CAN
Total/NA	Analysis	WI-GRO		1	309870	01/03/18 09:42	RTR	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6010B		1	309485	12/28/17 18:04	KLC	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6020A		1	309541	12/28/17 22:41	AS1	TAL CAN
Dissolved	Prep	7470A			309259	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	7470A		1	309461	12/28/17 10:52	DSH	TAL CAN
Total/NA	Prep	9012A			309927	01/03/18 11:17	MMM	TAL CAN
Total/NA	Analysis	9012A		1	309963	01/03/18 13:22	MMM	TAL CAN

Client Sample ID: AMW-09(20171221)

Date Collected: 12/21/17 09:00

Date Received: 12/23/17 10:40

Lab Sample ID: 240-89849-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309904	01/03/18 19:19	LRW	TAL CAN
Total/NA	Analysis	WI-GRO		1	309870	01/03/18 10:24	RTR	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Client Sample ID: AMW-09(20171221)

Lab Sample ID: 240-89849-3

Date Collected: 12/21/17 09:00

Matrix: Water

Date Received: 12/23/17 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			309197	12/27/17 07:25	BMB	TAL CAN
Total/NA	Analysis	WI-DRO		1	309465	12/28/17 17:28	DEB	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6010B		1	309485	12/28/17 18:08	KLC	TAL CAN
Dissolved	Prep	3005A			309251	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	6020A		1	309541	12/28/17 22:55	AS1	TAL CAN
Dissolved	Prep	7470A			309259	12/27/17 14:00	DTN	TAL CAN
Dissolved	Analysis	7470A		1	309461	12/28/17 10:59	DSH	TAL CAN
Total/NA	Prep	9012A			309927	01/03/18 11:17	MMM	TAL CAN
Total/NA	Analysis	9012A		1	309963	01/03/18 13:24	MMM	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-89849-4

Date Collected: 12/20/17 00:00

Matrix: Water

Date Received: 12/23/17 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309904	01/03/18 16:44	LRW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89849-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

4.0/3.7

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Client Contact		Regulatory program:		Site Contact: Angela DeGrandis		Lab Contact: Denise Pohl		TestAmerica Laboratories, Inc.												
Company Name: Arcadis		☐ NPDES ☐ RCRA ☐ Other		Telephone: 248-994-2240		Telephone: 330-966-9789		COC No:												
Address: 430 First Avenue North, Suite 720				City/State/Zip: Minneapolis, Minnesota 55401				of COCs												
Phone: 612-339-9434				Email: kristoffer.hinskey@arcadis.com				For lab use only												
Project Name: Ford TCAP				Method of Shipment/Carrier:				Walk-in client Lab sampling												
Project Number: MN000631.0001.00002				Shipping/Tracking No:				Job/SDG No:												
PO # MN000631.0001.00002								Sample Specific Notes / Special Instructions:												
Sample Identification		Matrix		Containers & Preservatives		Filtered Sample (Y/N)		Analyses												
Sample Date	Sample Time	Air	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO ₂	LiPret:	Other:	VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	Dissolved TAL Metals (6020)	Cyanide (9012A)	GRO (MI mod)	DRO (MI mod)	
AMW-01(20171220)	12/20/17 1630	X											Y	X	X	X	X	X	X	X
AMW-08(20171221)	12/21/17 0830	X											Y	X	X	X	X	X	X	X
AMW-09(20171221)	12/21/17 0900	X											Y	X	X	X	X	X	X	X
Trip Blank																				
Teng Blank																				

240-89849 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Irritable ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:
Submit all results through Cadena at jim.tomalia@cadenalabs.com. Cadena #E200572

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	Arcadis	12/21/17	Thomas S. Reis	TEST AMERICA	12-21-17 13:47
<i>[Signature]</i>	TEST AMERICA	12-21-17	<i>[Signature]</i>	Company:	12/23/17 10:40

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 89849

Client Aradix Site Name _____ Cooler unpacked by: [Signature]
 Cooler Received on 12/23/17 Opened on 12/23/17
 FedEx: 1st Grd ☒ Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box ☒ Client Cooler Box Other _____
 Packing material used: ☒ Bubble Wrap Foam ☒ Plastic Bag None Other _____
 COOLANT: ☒ Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 3.7 °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No
 -Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☐ No NA
 -Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No NA
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No
4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No
6. Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☐ No
7. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No
8. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No
9. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No
10. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No
11. Are these work share samples? ☒ Yes ☐ No
12. Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA pH Strip Lot# HC730269
13. Were VOAs on the COC? ☒ Yes ☐ No
14. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA Larger than this. ☒ Yes ☐ No
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ ☒ Yes ☐ No
16. Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: DM

Amw-01 - only 12 per test for PCB, SVOC, + DRO
- will log - very limited volume per DSP.
Amw-08 only 12 unpreserved reid - will log SVOC
per DSP.
Amw-09 - only 12 HCL reid - will log DRO per DSP.

17. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
AMW-01(20171220)	240-89849-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-01(20171220)	240-89849-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-01(20171220)	240-89849-K-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-08(20171221)	240-89849-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-08(20171221)	240-89849-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-09(20171221)	240-89849-G-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-09(20171221)	240-89849-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-09(20171221)	240-89849-I-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89410-1

Client Project/Site: Ford TCAP - E200572

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

12/29/2017 3:20:16 PM

Opal Johnson, Project Manager II

opal.johnson@testamericainc.com

Designee for

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

TestAmerica Canton

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Job ID: 240-89410-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89410-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/14/2017 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.5° C, 1.1° C, 1.5° C, 2.1° C and 3.3° C.

EXCEPT: Sample AMW-03 listed on the COC had a sample label of AMW-3A. The sample was logged per the COC.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/21/2017 and 12/22/2017.

The laboratory control sample (LCS) for 308693 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03B(20171212) (240-89410-4) and (LCS 240-308677/4)

1,1,2-Trichloro-1,2,2-trifluoroethane and Tetrachloroethene failed the recovery criteria low for the MS of sample 240-89282-1 in batch 240-308855.

Tetrachloroethene failed the recovery criteria low for the MSD of sample 240-89282-1 in batch 240-308855. Dichlorodifluoromethane exceeded the RPD limit.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Job ID: 240-89410-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Allyl chloride, cis-1,3-Dichloropropene and Methylcyclohexane failed the recovery criteria low for the MS of sample AMW-22(20171213)MS (240-89410-1) in batch 240-308677.

4-Methyl-2-pentanone (MIBK), Bromodichloromethane, cis-1,3-Dichloropropene and Dibromomethane failed the recovery criteria low for the MSD of sample AMW-22(20171213)MSD (240-89410-1) in batch 240-308677. Several analytes exceeded the RPD limit.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/18/2017, 12/20/2017 and 12/21/2017 and analyzed on 12/20/2017, 12/22/2017 and 12/26/2017.

Diethyl phthalate was detected in method blank MB 240-308397/19-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for prep batch 308155 recovered outside control limits for the following analytes: 4-Chloroaniline, Di-n-octyl phthalate and Caprolactam. The associated samples, AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5), were re-prepared and/or re-analyzed outside holding time. Di-n-octyl phthalate and 4-chloroaniline recoveries met criteria in the reextract batch, prep batch 308715, however, caprolactam again recovered low. Due to insufficient sample further corrective action could not be initiated. The initial results have been reported as has Caprolactam, 4-Chloroaniline and Di-n-octyl phthalate from the reextracted data.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batches: 240-308155, 240-308397, and 240-308715.

The following samples was prepared outside of preparation holding time due to re-extracted after hold time expired : AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/18/2017 and analyzed on 12/20/2017.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-308133/19-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

WI Diesel Range Organics (C10-C28) failed the recovery criteria low for the MSD of sample 240-89451-7 in batch 240-308394.

WI Diesel Range Organics (C10-C28) failed the recovery criteria low for the MS of sample 240-89451-7 in batch 240-308394.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 12/18/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Job ID: 240-89410-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/18/2017 and 12/19/2017 and analyzed on 12/19/2017 and 12/20/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for MB 240-308129/9-A. DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for LCS 240-308129/10-A.

An incorrect volume of surrogate spiking solution was inadvertently added to the following samples: (LCS 240-308129/10-A) and (MB 240-308129/9-A). Percent recoveries are based on the amount spiked. Sample surrogates, LCS spike amounts and IS standards all pass criteria and samples are ND. After careful evaluation, the data is reported.

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5). Reagents: 3394463, 3154250, 3361891.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-22B(20171213) (240-89410-2). Reagents: 3394462, 3154251, 3361890.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-308318.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/15/2017 and analyzed on 12/18/2017.

Potassium and Sodium were detected in method blank MB 240-307891/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/15/2017 and analyzed on 12/18/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3),

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Job ID: 240-89410-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/15/2017 and analyzed on 12/18/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-22(20171213) (240-89410-1), AMW-22B(20171213) (240-89410-2), AMW-03(20171212) (240-89410-3), AMW-03B(20171212) (240-89410-4) and AMW-10(20171212) (240-89410-5) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 12/18/2017.

Total Cyanide was detected in method blank MB 240-308089/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89410-1	AMW-22(20171213)	Water	12/13/17 10:04	12/14/17 10:10
240-89410-2	AMW-22B(20171213)	Water	12/13/17 11:45	12/14/17 10:10
240-89410-3	AMW-03(20171212)	Water	12/12/17 14:00	12/14/17 10:10
240-89410-4	AMW-03B(20171212)	Water	12/12/17 11:10	12/14/17 10:10
240-89410-5	AMW-10(20171212)	Water	12/12/17 15:40	12/14/17 10:10

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.6	J	10	1.8	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.30	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.051	J B	0.096	0.019	mg/L	1			WI-DRO	Total/NA
Barium	150	J	200	2.4	ug/L	1			6010B	Dissolved
Cadmium	0.33	J	5.0	0.29	ug/L	1			6010B	Dissolved
Arsenic	9.7	J	10	3.3	ug/L	1			6010B	Dissolved
Calcium	120000		5000	710	ug/L	1			6010B	Dissolved
Iron	6900		100	25	ug/L	1			6010B	Dissolved
Potassium	3800	J B	5000	70	ug/L	1			6010B	Dissolved
Magnesium	34000		5000	230	ug/L	1			6010B	Dissolved
Manganese	1800		15	5.1	ug/L	1			6010B	Dissolved
Sodium	24000	B	5000	330	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0035	J B	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	4.2	J	10	1.8	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	0.58	J *	1.0	0.30	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.087	J B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	170	J	200	2.4	ug/L	1			6010B	Dissolved
Arsenic	3.8	J	10	3.3	ug/L	1			6010B	Dissolved
Calcium	76000		5000	710	ug/L	1			6010B	Dissolved
Iron	2700		100	25	ug/L	1			6010B	Dissolved
Potassium	3000	J B	5000	70	ug/L	1			6010B	Dissolved
Magnesium	27000		5000	230	ug/L	1			6010B	Dissolved
Manganese	170		15	5.1	ug/L	1			6010B	Dissolved
Sodium	6100	B	5000	330	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0036	J B	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.5	J	10	1.8	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	0.68	J	1.0	0.30	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.073	J B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	110	J	200	2.4	ug/L	1			6010B	Dissolved
Cadmium	0.30	J	5.0	0.29	ug/L	1			6010B	Dissolved
Calcium	96000		5000	710	ug/L	1			6010B	Dissolved
Iron	1700		100	25	ug/L	1			6010B	Dissolved
Potassium	3900	J B	5000	70	ug/L	1			6010B	Dissolved
Magnesium	44000		5000	230	ug/L	1			6010B	Dissolved
Manganese	180		15	5.1	ug/L	1			6010B	Dissolved
Sodium	18000	B	5000	330	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0032	J B	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.9	J	10	1.8	ug/L	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212) (Continued)

Lab Sample ID: 240-89410-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.049	J B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	75	J	200	2.4	ug/L	1		6010B	Dissolved
Lead	1.9	J	3.0	1.9	ug/L	1		6010B	Dissolved
Calcium	66000		5000	710	ug/L	1		6010B	Dissolved
Iron	840		100	25	ug/L	1		6010B	Dissolved
Potassium	1600	J B	5000	70	ug/L	1		6010B	Dissolved
Magnesium	22000		5000	230	ug/L	1		6010B	Dissolved
Manganese	70		15	5.1	ug/L	1		6010B	Dissolved
Sodium	2800	J B	5000	330	ug/L	1		6010B	Dissolved
Cyanide, Total	0.0028	J B	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J	10	1.8	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.48	B	0.095	0.019	mg/L	1		WI-DRO	Total/NA
Barium	95	J	200	2.4	ug/L	1		6010B	Dissolved
Calcium	120000		5000	710	ug/L	1		6010B	Dissolved
Iron	4800		100	25	ug/L	1		6010B	Dissolved
Potassium	2600	J B	5000	70	ug/L	1		6010B	Dissolved
Magnesium	45000		5000	230	ug/L	1		6010B	Dissolved
Manganese	120		15	5.1	ug/L	1		6010B	Dissolved
Sodium	22000	B	5000	330	ug/L	1		6010B	Dissolved
Cyanide, Total	0.0028	J B	0.010	0.0020	mg/L	1		9012A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Date Collected: 12/13/17 10:04

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/21/17 14:01	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/21/17 14:01	1
1,1,2,2-Tetrachloroethane	ND	F2	1.0	0.32	ug/L			12/21/17 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/21/17 14:01	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/21/17 14:01	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/21/17 14:01	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/21/17 14:01	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/21/17 14:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/21/17 14:01	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/21/17 14:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/21/17 14:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 14:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/21/17 14:01	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/21/17 14:01	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/21/17 14:01	1
1,2-Dichloropropane	ND	F2	1.0	0.30	ug/L			12/21/17 14:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 14:01	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/21/17 14:01	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/21/17 14:01	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/21/17 14:01	1
Allyl chloride	ND	F1 F2	2.0	0.38	ug/L			12/21/17 14:01	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/21/17 14:01	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/21/17 14:01	1
2-Hexanone	ND		10	1.2	ug/L			12/21/17 14:01	1
Bromobenzene	ND		1.0	0.31	ug/L			12/21/17 14:01	1
Bromochloromethane	ND	*	1.0	0.47	ug/L			12/21/17 14:01	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/21/17 14:01	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/21/17 14:01	1
Acetone	3.6	J	10	1.8	ug/L			12/21/17 14:01	1
Benzene	ND		1.0	0.28	ug/L			12/21/17 14:01	1
Bromoform	ND		1.0	0.43	ug/L			12/21/17 14:01	1
Bromomethane	ND		1.0	0.42	ug/L			12/21/17 14:01	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/21/17 14:01	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/21/17 14:01	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/21/17 14:01	1
Chloroethane	ND		1.0	0.41	ug/L			12/21/17 14:01	1
Chloroform	ND		1.0	0.31	ug/L			12/21/17 14:01	1
Chloromethane	ND		1.0	0.43	ug/L			12/21/17 14:01	1
cis-1,2-Dichloroethene	1.1		1.0	0.30	ug/L			12/22/17 20:16	1
cis-1,3-Dichloropropene	ND	F1	1.0	0.26	ug/L			12/21/17 14:01	1
Cyclohexane	ND		1.0	0.44	ug/L			12/21/17 14:01	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/21/17 14:01	1
Dibromomethane	ND	F1	1.0	0.46	ug/L			12/21/17 14:01	1
Bromodichloromethane	ND	F1	1.0	0.30	ug/L			12/21/17 14:01	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/21/17 14:01	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/21/17 14:01	1
Ethyl ether	ND		2.0	0.35	ug/L			12/21/17 14:01	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/21/17 14:01	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/21/17 14:01	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Date Collected: 12/13/17 10:04

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/21/17 14:01	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/21/17 14:01	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/21/17 14:01	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/21/17 14:01	1
Methyl acetate	ND	F2	10	1.4	ug/L			12/21/17 14:01	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/21/17 14:01	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/21/17 14:01	1
4-Methyl-2-pentanone (MIBK)	ND	F1	10	0.71	ug/L			12/21/17 14:01	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/21/17 14:01	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/21/17 14:01	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/21/17 14:01	1
o-Xylene	ND		1.0	0.28	ug/L			12/21/17 14:01	1
Styrene	ND		1.0	0.23	ug/L			12/21/17 14:01	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/21/17 14:01	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/21/17 14:01	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/21/17 14:01	1
Toluene	ND		1.0	0.23	ug/L			12/21/17 14:01	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/21/17 14:01	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/21/17 14:01	1
Trichloroethene	ND	* F2	1.0	0.33	ug/L			12/21/17 14:01	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/21/17 14:01	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/21/17 14:01	1
Methylcyclohexane	ND	F1 F2	1.0	0.45	ug/L			12/21/17 14:01	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/21/17 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 138		12/21/17 14:01	1
1,2-Dichloroethane-d4 (Surr)	91		61 - 138		12/22/17 20:16	1
4-Bromofluorobenzene (Surr)	75		69 - 120		12/21/17 14:01	1
4-Bromofluorobenzene (Surr)	71		69 - 120		12/22/17 20:16	1
Toluene-d8 (Surr)	94		73 - 120		12/21/17 14:01	1
Toluene-d8 (Surr)	97		73 - 120		12/22/17 20:16	1
Dibromofluoromethane (Surr)	119		69 - 124		12/21/17 14:01	1
Dibromofluoromethane (Surr)	98		69 - 124		12/22/17 20:16	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 15:44	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/20/17 07:00	12/22/17 15:44	1
Acetophenone	ND		0.95	0.32	ug/L		12/20/17 07:00	12/22/17 15:44	1
Anthracene	ND		0.19	0.084	ug/L		12/20/17 07:00	12/22/17 15:44	1
Atrazine	ND		1.9	0.32	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/20/17 07:00	12/22/17 15:44	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/20/17 07:00	12/22/17 15:44	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/20/17 07:00	12/22/17 15:44	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/20/17 07:00	12/22/17 15:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Date Collected: 12/13/17 10:04

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 15:44	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 15:44	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 15:44	1
Caprolactam	ND		4.8	0.19	ug/L		12/20/17 07:00	12/22/17 15:44	1
Carbazole	ND		0.95	0.27	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/20/17 07:00	12/22/17 15:44	1
Chrysene	ND		0.19	0.048	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/20/17 07:00	12/22/17 15:44	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/20/17 07:00	12/22/17 15:44	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 15:44	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/20/17 07:00	12/22/17 15:44	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/20/17 07:00	12/22/17 15:44	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/20/17 07:00	12/22/17 15:44	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/20/17 07:00	12/22/17 15:44	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/20/17 07:00	12/22/17 15:44	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 15:44	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/20/17 07:00	12/22/17 15:44	1
Fluoranthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 15:44	1
Fluorene	ND		0.19	0.039	ug/L		12/20/17 07:00	12/22/17 15:44	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/20/17 07:00	12/22/17 15:44	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 15:44	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/20/17 07:00	12/22/17 15:44	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/20/17 07:00	12/22/17 15:44	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/20/17 07:00	12/22/17 15:44	1
Isophorone	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/20/17 07:00	12/22/17 15:44	1
Naphthalene	ND		0.19	0.060	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 15:44	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 15:44	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/20/17 07:00	12/22/17 15:44	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 15:44	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/20/17 07:00	12/22/17 15:44	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 15:44	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/20/17 07:00	12/22/17 15:44	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/20/17 07:00	12/22/17 15:44	1
Phenanthrene	ND		0.19	0.059	ug/L		12/20/17 07:00	12/22/17 15:44	1
Phenol	ND		0.95	0.57	ug/L		12/20/17 07:00	12/22/17 15:44	1
Pyrene	ND		0.19	0.040	ug/L		12/20/17 07:00	12/22/17 15:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Date Collected: 12/13/17 10:04

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/20/17 07:00	12/22/17 15:44	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/20/17 07:00	12/22/17 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		38 - 120				12/20/17 07:00	12/22/17 15:44	1
2-Fluorophenol (Surr)	39		10 - 120				12/20/17 07:00	12/22/17 15:44	1
2,4,6-Tribromophenol (Surr)	70		28 - 120				12/20/17 07:00	12/22/17 15:44	1
Nitrobenzene-d5 (Surr)	60		32 - 120				12/20/17 07:00	12/22/17 15:44	1
Phenol-d5 (Surr)	23		10 - 120				12/20/17 07:00	12/22/17 15:44	1
Terphenyl-d14 (Surr)	82		23 - 127				12/20/17 07:00	12/22/17 15:44	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 12:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1221	ND		0.19	0.087	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1242	ND		0.19	0.058	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/19/17 10:30	12/20/17 19:44	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/19/17 10:30	12/20/17 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		10 - 120				12/19/17 10:30	12/20/17 19:44	1
Tetrachloro-m-xylene	66		21 - 120				12/19/17 10:30	12/20/17 19:44	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.051	J B	0.096	0.019	mg/L		12/18/17 10:23	12/20/17 01:55	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	150	J	200	2.4	ug/L		12/15/17 14:00	12/18/17 23:19	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 23:19	1
Cadmium	0.33	J	5.0	0.29	ug/L		12/15/17 14:00	12/18/17 23:19	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 23:19	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 23:19	1
Arsenic	9.7	J	10	3.3	ug/L		12/15/17 14:00	12/18/17 23:19	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 23:19	1
Lead	ND		3.0	1.9	ug/L		12/15/17 14:00	12/18/17 23:19	1
Calcium	120000		5000	710	ug/L		12/15/17 14:00	12/18/17 23:19	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 23:19	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 23:19	1
Iron	6900		100	25	ug/L		12/15/17 14:00	12/18/17 23:19	1
Potassium	3800	J B	5000	70	ug/L		12/15/17 14:00	12/18/17 23:19	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Lab Sample ID: 240-89410-1

Date Collected: 12/13/17 10:04

Matrix: Water

Date Received: 12/14/17 10:10

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	34000		5000	230	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Manganese	1800		15	5.1	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Sodium	24000	B	5000	330	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Nickel	ND		40	1.6	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Antimony	ND		10	3.1	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Vanadium	ND		10	4.4	ug/L	-	12/15/17 14:00	12/18/17 23:19	1
Zinc	ND		50	16	ug/L	-	12/15/17 14:00	12/18/17 23:19	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/15/17 14:00	12/18/17 17:45	1
Thallium	ND		1.0	0.20	ug/L	-	12/15/17 14:00	12/18/17 17:45	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/15/17 14:00	12/18/17 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0035	J B	0.010	0.0020	mg/L	-	12/18/17 07:36	12/18/17 11:33	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Date Collected: 12/13/17 11:45

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/21/17 14:23	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/21/17 14:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/21/17 14:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/21/17 14:23	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/21/17 14:23	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/21/17 14:23	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/21/17 14:23	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/21/17 14:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/21/17 14:23	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/21/17 14:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/21/17 14:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 14:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/21/17 14:23	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/21/17 14:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/21/17 14:23	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/21/17 14:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 14:23	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/21/17 14:23	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/21/17 14:23	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/21/17 14:23	1
Allyl chloride	ND		2.0	0.38	ug/L			12/21/17 14:23	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/21/17 14:23	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/21/17 14:23	1
2-Hexanone	ND		10	1.2	ug/L			12/21/17 14:23	1
Bromobenzene	ND		1.0	0.31	ug/L			12/21/17 14:23	1
Bromochloromethane	ND	*	1.0	0.47	ug/L			12/21/17 14:23	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/21/17 14:23	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/21/17 14:23	1
Acetone	4.2	J	10	1.8	ug/L			12/21/17 14:23	1
Benzene	ND		1.0	0.28	ug/L			12/21/17 14:23	1
Bromoform	ND		1.0	0.43	ug/L			12/21/17 14:23	1
Bromomethane	ND		1.0	0.42	ug/L			12/21/17 14:23	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/21/17 14:23	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/21/17 14:23	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/21/17 14:23	1
Chloroethane	ND		1.0	0.41	ug/L			12/21/17 14:23	1
Chloroform	ND		1.0	0.31	ug/L			12/21/17 14:23	1
Chloromethane	ND		1.0	0.43	ug/L			12/21/17 14:23	1
cis-1,2-Dichloroethene	0.58	J *	1.0	0.30	ug/L			12/21/17 14:23	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/21/17 14:23	1
Cyclohexane	ND		1.0	0.44	ug/L			12/21/17 14:23	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/21/17 14:23	1
Dibromomethane	ND		1.0	0.46	ug/L			12/21/17 14:23	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/21/17 14:23	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/21/17 14:23	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/21/17 14:23	1
Ethyl ether	ND		2.0	0.35	ug/L			12/21/17 14:23	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/21/17 14:23	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/21/17 14:23	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Date Collected: 12/13/17 11:45

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/21/17 14:23	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/21/17 14:23	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/21/17 14:23	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/21/17 14:23	1
Methyl acetate	ND		10	1.4	ug/L			12/21/17 14:23	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/21/17 14:23	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/21/17 14:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/21/17 14:23	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/21/17 14:23	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/21/17 14:23	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/21/17 14:23	1
o-Xylene	ND		1.0	0.28	ug/L			12/21/17 14:23	1
Styrene	ND		1.0	0.23	ug/L			12/21/17 14:23	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/21/17 14:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/21/17 14:23	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/21/17 14:23	1
Toluene	ND		1.0	0.23	ug/L			12/21/17 14:23	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/21/17 14:23	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/21/17 14:23	1
Trichloroethene	ND *		1.0	0.33	ug/L			12/21/17 14:23	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/21/17 14:23	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/21/17 14:23	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/21/17 14:23	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/21/17 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 138		12/21/17 14:23	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/21/17 14:23	1
Toluene-d8 (Surr)	104		73 - 120		12/21/17 14:23	1
Dibromofluoromethane (Surr)	100		69 - 124		12/21/17 14:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:07	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/20/17 07:00	12/22/17 16:07	1
Acetophenone	ND		0.95	0.32	ug/L		12/20/17 07:00	12/22/17 16:07	1
Anthracene	ND		0.19	0.084	ug/L		12/20/17 07:00	12/22/17 16:07	1
Atrazine	ND		1.9	0.32	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/20/17 07:00	12/22/17 16:07	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/20/17 07:00	12/22/17 16:07	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/20/17 07:00	12/22/17 16:07	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/20/17 07:00	12/22/17 16:07	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 16:07	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 16:07	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 16:07	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Date Collected: 12/13/17 11:45

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/20/17 07:00	12/22/17 16:07	1
Carbazole	ND		0.95	0.27	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/20/17 07:00	12/22/17 16:07	1
Chrysene	ND		0.19	0.048	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/20/17 07:00	12/22/17 16:07	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/20/17 07:00	12/22/17 16:07	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:07	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/20/17 07:00	12/22/17 16:07	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/20/17 07:00	12/22/17 16:07	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/20/17 07:00	12/22/17 16:07	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/20/17 07:00	12/22/17 16:07	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/20/17 07:00	12/22/17 16:07	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 16:07	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/20/17 07:00	12/22/17 16:07	1
Fluoranthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:07	1
Fluorene	ND		0.19	0.039	ug/L		12/20/17 07:00	12/22/17 16:07	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/20/17 07:00	12/22/17 16:07	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 16:07	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/20/17 07:00	12/22/17 16:07	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/20/17 07:00	12/22/17 16:07	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/20/17 07:00	12/22/17 16:07	1
Isophorone	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/20/17 07:00	12/22/17 16:07	1
Naphthalene	ND		0.19	0.060	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:07	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 16:07	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/20/17 07:00	12/22/17 16:07	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 16:07	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/20/17 07:00	12/22/17 16:07	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 16:07	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/20/17 07:00	12/22/17 16:07	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/20/17 07:00	12/22/17 16:07	1
Phenanthrene	ND		0.19	0.059	ug/L		12/20/17 07:00	12/22/17 16:07	1
Phenol	ND		0.95	0.57	ug/L		12/20/17 07:00	12/22/17 16:07	1
Pyrene	ND		0.19	0.040	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/20/17 07:00	12/22/17 16:07	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/20/17 07:00	12/22/17 16:07	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Date Collected: 12/13/17 11:45

Matrix: Water

Date Received: 12/14/17 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		38 - 120	12/20/17 07:00	12/22/17 16:07	1
2-Fluorophenol (Surr)	33		10 - 120	12/20/17 07:00	12/22/17 16:07	1
2,4,6-Tribromophenol (Surr)	70		28 - 120	12/20/17 07:00	12/22/17 16:07	1
Nitrobenzene-d5 (Surr)	51		32 - 120	12/20/17 07:00	12/22/17 16:07	1
Phenol-d5 (Surr)	21		10 - 120	12/20/17 07:00	12/22/17 16:07	1
Terphenyl-d14 (Surr)	77		23 - 127	12/20/17 07:00	12/22/17 16:07	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 12:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/19/17 10:30	12/20/17 19:24	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/19/17 10:30	12/20/17 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		10 - 120	12/19/17 10:30	12/20/17 19:24	1
Tetrachloro-m-xylene	71		21 - 120	12/19/17 10:30	12/20/17 19:24	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.087	J B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 02:23	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	170	J	200	2.4	ug/L		12/15/17 14:00	12/18/17 23:24	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 23:24	1
Cadmium	ND		5.0	0.29	ug/L		12/15/17 14:00	12/18/17 23:24	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 23:24	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 23:24	1
Arsenic	3.8	J	10	3.3	ug/L		12/15/17 14:00	12/18/17 23:24	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 23:24	1
Lead	ND		3.0	1.9	ug/L		12/15/17 14:00	12/18/17 23:24	1
Calcium	76000		5000	710	ug/L		12/15/17 14:00	12/18/17 23:24	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 23:24	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 23:24	1
Iron	2700		100	25	ug/L		12/15/17 14:00	12/18/17 23:24	1
Potassium	3000	J B	5000	70	ug/L		12/15/17 14:00	12/18/17 23:24	1
Magnesium	27000		5000	230	ug/L		12/15/17 14:00	12/18/17 23:24	1
Manganese	170		15	5.1	ug/L		12/15/17 14:00	12/18/17 23:24	1
Sodium	6100	B	5000	330	ug/L		12/15/17 14:00	12/18/17 23:24	1
Nickel	ND		40	1.6	ug/L		12/15/17 14:00	12/18/17 23:24	1
Antimony	ND		10	3.1	ug/L		12/15/17 14:00	12/18/17 23:24	1
Vanadium	ND		10	4.4	ug/L		12/15/17 14:00	12/18/17 23:24	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22B(20171213)

Lab Sample ID: 240-89410-2

Date Collected: 12/13/17 11:45

Matrix: Water

Date Received: 12/14/17 10:10

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	16	ug/L	-	12/15/17 14:00	12/18/17 23:24	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/15/17 14:00	12/18/17 17:49	1
Thallium	ND		1.0	0.20	ug/L	-	12/15/17 14:00	12/18/17 17:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/15/17 14:00	12/18/17 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0036	J B	0.010	0.0020	mg/L	-	12/18/17 07:36	12/18/17 11:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/22/17 15:22	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 15:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/22/17 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/22/17 15:22	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/22/17 15:22	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/22/17 15:22	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/22/17 15:22	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/22/17 15:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/22/17 15:22	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/22/17 15:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/22/17 15:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 15:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/22/17 15:22	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/22/17 15:22	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/22/17 15:22	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/22/17 15:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 15:22	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/22/17 15:22	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/22/17 15:22	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/22/17 15:22	1
Allyl chloride	ND		2.0	0.38	ug/L			12/22/17 15:22	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/22/17 15:22	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/22/17 15:22	1
2-Hexanone	ND		10	1.2	ug/L			12/22/17 15:22	1
Bromobenzene	ND		1.0	0.31	ug/L			12/22/17 15:22	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/22/17 15:22	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/22/17 15:22	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/22/17 15:22	1
Acetone	2.5	J	10	1.8	ug/L			12/22/17 15:22	1
Benzene	ND		1.0	0.28	ug/L			12/22/17 15:22	1
Bromoform	ND		1.0	0.43	ug/L			12/22/17 15:22	1
Bromomethane	ND		1.0	0.42	ug/L			12/22/17 15:22	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/22/17 15:22	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/22/17 15:22	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/22/17 15:22	1
Chloroethane	ND		1.0	0.41	ug/L			12/22/17 15:22	1
Chloroform	ND		1.0	0.31	ug/L			12/22/17 15:22	1
Chloromethane	ND		1.0	0.43	ug/L			12/22/17 15:22	1
cis-1,2-Dichloroethene	0.68	J	1.0	0.30	ug/L			12/22/17 15:22	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/22/17 15:22	1
Cyclohexane	ND		1.0	0.44	ug/L			12/22/17 15:22	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/22/17 15:22	1
Dibromomethane	ND		1.0	0.46	ug/L			12/22/17 15:22	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/22/17 15:22	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/22/17 15:22	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/22/17 15:22	1
Ethyl ether	ND		2.0	0.35	ug/L			12/22/17 15:22	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/22/17 15:22	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/22/17 15:22	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/22/17 15:22	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/22/17 15:22	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/22/17 15:22	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/22/17 15:22	1
Methyl acetate	ND		10	1.4	ug/L			12/22/17 15:22	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/22/17 15:22	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/22/17 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/22/17 15:22	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/22/17 15:22	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/22/17 15:22	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/22/17 15:22	1
o-Xylene	ND		1.0	0.28	ug/L			12/22/17 15:22	1
Styrene	ND		1.0	0.23	ug/L			12/22/17 15:22	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/22/17 15:22	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/22/17 15:22	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/22/17 15:22	1
Toluene	ND		1.0	0.23	ug/L			12/22/17 15:22	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 15:22	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/22/17 15:22	1
Trichloroethene	ND		1.0	0.33	ug/L			12/22/17 15:22	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/22/17 15:22	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/22/17 15:22	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/22/17 15:22	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/22/17 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 138		12/22/17 15:22	1
4-Bromofluorobenzene (Surr)	78		69 - 120		12/22/17 15:22	1
Toluene-d8 (Surr)	104		73 - 120		12/22/17 15:22	1
Dibromofluoromethane (Surr)	108		69 - 124		12/22/17 15:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 11:43	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/18/17 12:01	12/20/17 11:43	1
Acetophenone	ND		0.95	0.32	ug/L		12/18/17 12:01	12/20/17 11:43	1
Anthracene	ND		0.19	0.084	ug/L		12/18/17 12:01	12/20/17 11:43	1
Atrazine	ND		1.9	0.32	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/18/17 12:01	12/20/17 11:43	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/18/17 12:01	12/20/17 11:43	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/18/17 12:01	12/20/17 11:43	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/18/17 12:01	12/20/17 11:43	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 11:43	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 11:43	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 11:43	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	*	4.8	0.19	ug/L		12/18/17 12:01	12/20/17 11:43	1
Carbazole	ND		0.95	0.27	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Chloroaniline	ND	*	1.9	0.20	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/18/17 12:01	12/20/17 11:43	1
Chrysene	ND		0.19	0.048	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/18/17 12:01	12/20/17 11:43	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/18/17 12:01	12/20/17 11:43	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 11:43	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/18/17 12:01	12/20/17 11:43	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/18/17 12:01	12/20/17 11:43	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/18/17 12:01	12/20/17 11:43	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/18/17 12:01	12/20/17 11:43	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/18/17 12:01	12/20/17 11:43	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 11:43	1
Di-n-octyl phthalate	ND	*	1.9	0.22	ug/L		12/18/17 12:01	12/20/17 11:43	1
Fluoranthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 11:43	1
Fluorene	ND		0.19	0.039	ug/L		12/18/17 12:01	12/20/17 11:43	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/18/17 12:01	12/20/17 11:43	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 11:43	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/18/17 12:01	12/20/17 11:43	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/18/17 12:01	12/20/17 11:43	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/18/17 12:01	12/20/17 11:43	1
Isophorone	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/18/17 12:01	12/20/17 11:43	1
Naphthalene	ND		0.19	0.060	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 11:43	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 11:43	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/18/17 12:01	12/20/17 11:43	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 11:43	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/18/17 12:01	12/20/17 11:43	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 11:43	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/18/17 12:01	12/20/17 11:43	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/18/17 12:01	12/20/17 11:43	1
Phenanthrene	ND		0.19	0.059	ug/L		12/18/17 12:01	12/20/17 11:43	1
Phenol	ND		0.95	0.57	ug/L		12/18/17 12:01	12/20/17 11:43	1
Pyrene	ND		0.19	0.040	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/18/17 12:01	12/20/17 11:43	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/18/17 12:01	12/20/17 11:43	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	108		38 - 120	12/18/17 12:01	12/20/17 11:43	1
2-Fluorophenol (Surr)	32		10 - 120	12/18/17 12:01	12/20/17 11:43	1
2,4,6-Tribromophenol (Surr)	86		28 - 120	12/18/17 12:01	12/20/17 11:43	1
Nitrobenzene-d5 (Surr)	63		32 - 120	12/18/17 12:01	12/20/17 11:43	1
Phenol-d5 (Surr)	19		10 - 120	12/18/17 12:01	12/20/17 11:43	1
Terphenyl-d14 (Surr)	84		23 - 127	12/18/17 12:01	12/20/17 11:43	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	H *	4.8	0.19	ug/L		12/21/17 12:56	12/26/17 10:03	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/21/17 12:56	12/26/17 10:03	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/21/17 12:56	12/26/17 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		38 - 120	12/21/17 12:56	12/26/17 10:03	1
2-Fluorophenol (Surr)	30		10 - 120	12/21/17 12:56	12/26/17 10:03	1
2,4,6-Tribromophenol (Surr)	82		28 - 120	12/21/17 12:56	12/26/17 10:03	1
Nitrobenzene-d5 (Surr)	56		32 - 120	12/21/17 12:56	12/26/17 10:03	1
Phenol-d5 (Surr)	19		10 - 120	12/21/17 12:56	12/26/17 10:03	1
Terphenyl-d14 (Surr)	98		23 - 127	12/21/17 12:56	12/26/17 10:03	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 13:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/18/17 10:13	12/19/17 18:06	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/18/17 10:13	12/19/17 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		10 - 120	12/18/17 10:13	12/19/17 18:06	1
Tetrachloro-m-xylene	57		21 - 120	12/18/17 10:13	12/19/17 18:06	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.073	J B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 02:50	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	110	J	200	2.4	ug/L		12/15/17 14:00	12/18/17 23:29	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 23:29	1
Cadmium	0.30	J	5.0	0.29	ug/L		12/15/17 14:00	12/18/17 23:29	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 23:29	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 23:29	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	3.3	ug/L		12/15/17 14:00	12/18/17 23:29	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 23:29	1
Lead	ND		3.0	1.9	ug/L		12/15/17 14:00	12/18/17 23:29	1
Calcium	96000		5000	710	ug/L		12/15/17 14:00	12/18/17 23:29	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 23:29	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 23:29	1
Iron	1700		100	25	ug/L		12/15/17 14:00	12/18/17 23:29	1
Potassium	3900	J B	5000	70	ug/L		12/15/17 14:00	12/18/17 23:29	1
Magnesium	44000		5000	230	ug/L		12/15/17 14:00	12/18/17 23:29	1
Manganese	180		15	5.1	ug/L		12/15/17 14:00	12/18/17 23:29	1
Sodium	18000	B	5000	330	ug/L		12/15/17 14:00	12/18/17 23:29	1
Nickel	ND		40	1.6	ug/L		12/15/17 14:00	12/18/17 23:29	1
Antimony	ND		10	3.1	ug/L		12/15/17 14:00	12/18/17 23:29	1
Vanadium	ND		10	4.4	ug/L		12/15/17 14:00	12/18/17 23:29	1
Zinc	ND		50	16	ug/L		12/15/17 14:00	12/18/17 23:29	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/15/17 14:00	12/18/17 18:03	1
Thallium	ND		1.0	0.20	ug/L		12/15/17 14:00	12/18/17 18:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/15/17 14:00	12/18/17 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0032	J B	0.010	0.0020	mg/L		12/18/17 07:36	12/18/17 11:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/21/17 15:09	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/21/17 15:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/21/17 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/21/17 15:09	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/21/17 15:09	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/21/17 15:09	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/21/17 15:09	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/21/17 15:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/21/17 15:09	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/21/17 15:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/21/17 15:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 15:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/21/17 15:09	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/21/17 15:09	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/21/17 15:09	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/21/17 15:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 15:09	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/21/17 15:09	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/21/17 15:09	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/21/17 15:09	1
Allyl chloride	ND		2.0	0.38	ug/L			12/21/17 15:09	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/21/17 15:09	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/21/17 15:09	1
2-Hexanone	ND		10	1.2	ug/L			12/21/17 15:09	1
Bromobenzene	ND		1.0	0.31	ug/L			12/21/17 15:09	1
Bromochloromethane	ND	*	1.0	0.47	ug/L			12/21/17 15:09	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/21/17 15:09	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/21/17 15:09	1
Acetone	1.9	J	10	1.8	ug/L			12/21/17 15:09	1
Benzene	ND		1.0	0.28	ug/L			12/21/17 15:09	1
Bromoform	ND		1.0	0.43	ug/L			12/21/17 15:09	1
Bromomethane	ND		1.0	0.42	ug/L			12/21/17 15:09	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/21/17 15:09	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/21/17 15:09	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/21/17 15:09	1
Chloroethane	ND		1.0	0.41	ug/L			12/21/17 15:09	1
Chloroform	ND		1.0	0.31	ug/L			12/21/17 15:09	1
Chloromethane	ND		1.0	0.43	ug/L			12/21/17 15:09	1
cis-1,2-Dichloroethene	ND	*	1.0	0.30	ug/L			12/21/17 15:09	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/21/17 15:09	1
Cyclohexane	ND		1.0	0.44	ug/L			12/21/17 15:09	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/21/17 15:09	1
Dibromomethane	ND		1.0	0.46	ug/L			12/21/17 15:09	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/21/17 15:09	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/21/17 15:09	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/21/17 15:09	1
Ethyl ether	ND		2.0	0.35	ug/L			12/21/17 15:09	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/21/17 15:09	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/21/17 15:09	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/21/17 15:09	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/21/17 15:09	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/21/17 15:09	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/21/17 15:09	1
Methyl acetate	ND		10	1.4	ug/L			12/21/17 15:09	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/21/17 15:09	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/21/17 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/21/17 15:09	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/21/17 15:09	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/21/17 15:09	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/21/17 15:09	1
o-Xylene	ND		1.0	0.28	ug/L			12/21/17 15:09	1
Styrene	ND		1.0	0.23	ug/L			12/21/17 15:09	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/21/17 15:09	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/21/17 15:09	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/21/17 15:09	1
Toluene	ND		1.0	0.23	ug/L			12/21/17 15:09	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/21/17 15:09	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/21/17 15:09	1
Trichloroethene	ND *		1.0	0.33	ug/L			12/21/17 15:09	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/21/17 15:09	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/21/17 15:09	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/21/17 15:09	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/21/17 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		12/21/17 15:09	1
4-Bromofluorobenzene (Surr)	74		69 - 120		12/21/17 15:09	1
Toluene-d8 (Surr)	100		73 - 120		12/21/17 15:09	1
Dibromofluoromethane (Surr)	117		69 - 124		12/21/17 15:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:10	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/18/17 12:01	12/20/17 12:10	1
Acetophenone	ND		0.95	0.32	ug/L		12/18/17 12:01	12/20/17 12:10	1
Anthracene	ND		0.19	0.084	ug/L		12/18/17 12:01	12/20/17 12:10	1
Atrazine	ND		1.9	0.32	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/18/17 12:01	12/20/17 12:10	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/18/17 12:01	12/20/17 12:10	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/18/17 12:01	12/20/17 12:10	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/18/17 12:01	12/20/17 12:10	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 12:10	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 12:10	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 12:10	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	*	4.8	0.19	ug/L		12/18/17 12:01	12/20/17 12:10	1
Carbazole	ND		0.95	0.27	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Chloroaniline	ND	*	1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/18/17 12:01	12/20/17 12:10	1
Chrysene	ND		0.19	0.048	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/18/17 12:01	12/20/17 12:10	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/18/17 12:01	12/20/17 12:10	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:10	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/18/17 12:01	12/20/17 12:10	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/18/17 12:01	12/20/17 12:10	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/18/17 12:01	12/20/17 12:10	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/18/17 12:01	12/20/17 12:10	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/18/17 12:01	12/20/17 12:10	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 12:10	1
Di-n-octyl phthalate	ND	*	1.9	0.22	ug/L		12/18/17 12:01	12/20/17 12:10	1
Fluoranthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:10	1
Fluorene	ND		0.19	0.039	ug/L		12/18/17 12:01	12/20/17 12:10	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/18/17 12:01	12/20/17 12:10	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 12:10	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/18/17 12:01	12/20/17 12:10	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/18/17 12:01	12/20/17 12:10	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/18/17 12:01	12/20/17 12:10	1
Isophorone	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/18/17 12:01	12/20/17 12:10	1
Naphthalene	ND		0.19	0.060	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:10	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 12:10	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/18/17 12:01	12/20/17 12:10	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 12:10	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/18/17 12:01	12/20/17 12:10	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 12:10	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/18/17 12:01	12/20/17 12:10	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/18/17 12:01	12/20/17 12:10	1
Phenanthrene	ND		0.19	0.059	ug/L		12/18/17 12:01	12/20/17 12:10	1
Phenol	ND		0.95	0.57	ug/L		12/18/17 12:01	12/20/17 12:10	1
Pyrene	ND		0.19	0.040	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/18/17 12:01	12/20/17 12:10	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/18/17 12:01	12/20/17 12:10	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	115		38 - 120	12/18/17 12:01	12/20/17 12:10	1
2-Fluorophenol (Surr)	43		10 - 120	12/18/17 12:01	12/20/17 12:10	1
2,4,6-Tribromophenol (Surr)	72		28 - 120	12/18/17 12:01	12/20/17 12:10	1
Nitrobenzene-d5 (Surr)	67		32 - 120	12/18/17 12:01	12/20/17 12:10	1
Phenol-d5 (Surr)	29		10 - 120	12/18/17 12:01	12/20/17 12:10	1
Terphenyl-d14 (Surr)	86		23 - 127	12/18/17 12:01	12/20/17 12:10	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	H *	4.8	0.19	ug/L		12/21/17 12:56	12/26/17 10:29	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/21/17 12:56	12/26/17 10:29	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/21/17 12:56	12/26/17 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	99		38 - 120	12/21/17 12:56	12/26/17 10:29	1
2-Fluorophenol (Surr)	35		10 - 120	12/21/17 12:56	12/26/17 10:29	1
2,4,6-Tribromophenol (Surr)	75		28 - 120	12/21/17 12:56	12/26/17 10:29	1
Nitrobenzene-d5 (Surr)	66		32 - 120	12/21/17 12:56	12/26/17 10:29	1
Phenol-d5 (Surr)	22		10 - 120	12/21/17 12:56	12/26/17 10:29	1
Terphenyl-d14 (Surr)	85		23 - 127	12/21/17 12:56	12/26/17 10:29	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 14:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/18/17 10:13	12/19/17 18:24	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/18/17 10:13	12/19/17 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		10 - 120	12/18/17 10:13	12/19/17 18:24	1
Tetrachloro-m-xylene	64		21 - 120	12/18/17 10:13	12/19/17 18:24	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.049	J B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 03:16	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	75	J	200	2.4	ug/L		12/15/17 14:00	12/18/17 23:33	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 23:33	1
Cadmium	ND		5.0	0.29	ug/L		12/15/17 14:00	12/18/17 23:33	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 23:33	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 23:33	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	3.3	ug/L		12/15/17 14:00	12/18/17 23:33	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 23:33	1
Lead	1.9	J	3.0	1.9	ug/L		12/15/17 14:00	12/18/17 23:33	1
Calcium	66000		5000	710	ug/L		12/15/17 14:00	12/18/17 23:33	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 23:33	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 23:33	1
Iron	840		100	25	ug/L		12/15/17 14:00	12/18/17 23:33	1
Potassium	1600	J B	5000	70	ug/L		12/15/17 14:00	12/18/17 23:33	1
Magnesium	22000		5000	230	ug/L		12/15/17 14:00	12/18/17 23:33	1
Manganese	70		15	5.1	ug/L		12/15/17 14:00	12/18/17 23:33	1
Sodium	2800	J B	5000	330	ug/L		12/15/17 14:00	12/18/17 23:33	1
Nickel	ND		40	1.6	ug/L		12/15/17 14:00	12/18/17 23:33	1
Antimony	ND		10	3.1	ug/L		12/15/17 14:00	12/18/17 23:33	1
Vanadium	ND		10	4.4	ug/L		12/15/17 14:00	12/18/17 23:33	1
Zinc	ND		50	16	ug/L		12/15/17 14:00	12/18/17 23:33	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/15/17 14:00	12/18/17 18:07	1
Thallium	ND		1.0	0.20	ug/L		12/15/17 14:00	12/18/17 18:07	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/15/17 14:00	12/18/17 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0028	J B	0.010	0.0020	mg/L		12/18/17 07:36	12/18/17 11:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/22/17 15:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/22/17 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/22/17 15:44	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/22/17 15:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/22/17 15:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/22/17 15:44	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/22/17 15:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/22/17 15:44	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/22/17 15:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/22/17 15:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 15:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/22/17 15:44	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/22/17 15:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/22/17 15:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/22/17 15:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 15:44	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/22/17 15:44	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/22/17 15:44	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/22/17 15:44	1
Allyl chloride	ND		2.0	0.38	ug/L			12/22/17 15:44	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/22/17 15:44	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/22/17 15:44	1
2-Hexanone	ND		10	1.2	ug/L			12/22/17 15:44	1
Bromobenzene	ND		1.0	0.31	ug/L			12/22/17 15:44	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/22/17 15:44	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/22/17 15:44	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/22/17 15:44	1
Acetone	2.5	J	10	1.8	ug/L			12/22/17 15:44	1
Benzene	ND		1.0	0.28	ug/L			12/22/17 15:44	1
Bromoform	ND		1.0	0.43	ug/L			12/22/17 15:44	1
Bromomethane	ND		1.0	0.42	ug/L			12/22/17 15:44	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/22/17 15:44	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/22/17 15:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/22/17 15:44	1
Chloroethane	ND		1.0	0.41	ug/L			12/22/17 15:44	1
Chloroform	ND		1.0	0.31	ug/L			12/22/17 15:44	1
Chloromethane	ND		1.0	0.43	ug/L			12/22/17 15:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/22/17 15:44	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/22/17 15:44	1
Cyclohexane	ND		1.0	0.44	ug/L			12/22/17 15:44	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/22/17 15:44	1
Dibromomethane	ND		1.0	0.46	ug/L			12/22/17 15:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/22/17 15:44	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/22/17 15:44	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/22/17 15:44	1
Ethyl ether	ND		2.0	0.35	ug/L			12/22/17 15:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/22/17 15:44	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/22/17 15:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/22/17 15:44	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/22/17 15:44	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/22/17 15:44	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/22/17 15:44	1
Methyl acetate	ND		10	1.4	ug/L			12/22/17 15:44	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/22/17 15:44	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/22/17 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/22/17 15:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/22/17 15:44	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/22/17 15:44	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/22/17 15:44	1
o-Xylene	ND		1.0	0.28	ug/L			12/22/17 15:44	1
Styrene	ND		1.0	0.23	ug/L			12/22/17 15:44	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/22/17 15:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/22/17 15:44	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/22/17 15:44	1
Toluene	ND		1.0	0.23	ug/L			12/22/17 15:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 15:44	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/22/17 15:44	1
Trichloroethene	ND		1.0	0.33	ug/L			12/22/17 15:44	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/22/17 15:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/22/17 15:44	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/22/17 15:44	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/22/17 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 138		12/22/17 15:44	1
4-Bromofluorobenzene (Surr)	79		69 - 120		12/22/17 15:44	1
Toluene-d8 (Surr)	107		73 - 120		12/22/17 15:44	1
Dibromofluoromethane (Surr)	113		69 - 124		12/22/17 15:44	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:37	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/18/17 12:01	12/20/17 12:37	1
Acetophenone	ND		0.95	0.32	ug/L		12/18/17 12:01	12/20/17 12:37	1
Anthracene	ND		0.19	0.084	ug/L		12/18/17 12:01	12/20/17 12:37	1
Atrazine	ND		1.9	0.32	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/18/17 12:01	12/20/17 12:37	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/18/17 12:01	12/20/17 12:37	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/18/17 12:01	12/20/17 12:37	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/18/17 12:01	12/20/17 12:37	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 12:37	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 12:37	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 12:37	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	*	4.8	0.19	ug/L		12/18/17 12:01	12/20/17 12:37	1
Carbazole	ND		0.95	0.27	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Chloroaniline	ND	*	1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/18/17 12:01	12/20/17 12:37	1
Chrysene	ND		0.19	0.048	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/18/17 12:01	12/20/17 12:37	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/18/17 12:01	12/20/17 12:37	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:37	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/18/17 12:01	12/20/17 12:37	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/18/17 12:01	12/20/17 12:37	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/18/17 12:01	12/20/17 12:37	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/18/17 12:01	12/20/17 12:37	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/18/17 12:01	12/20/17 12:37	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/18/17 12:01	12/20/17 12:37	1
Di-n-octyl phthalate	ND	*	1.9	0.22	ug/L		12/18/17 12:01	12/20/17 12:37	1
Fluoranthene	ND		0.19	0.042	ug/L		12/18/17 12:01	12/20/17 12:37	1
Fluorene	ND		0.19	0.039	ug/L		12/18/17 12:01	12/20/17 12:37	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/18/17 12:01	12/20/17 12:37	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 12:37	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/18/17 12:01	12/20/17 12:37	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/18/17 12:01	12/20/17 12:37	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/18/17 12:01	12/20/17 12:37	1
Isophorone	ND		0.95	0.26	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/18/17 12:01	12/20/17 12:37	1
Naphthalene	ND		0.19	0.060	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/18/17 12:01	12/20/17 12:37	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/18/17 12:01	12/20/17 12:37	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/18/17 12:01	12/20/17 12:37	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/18/17 12:01	12/20/17 12:37	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/18/17 12:01	12/20/17 12:37	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/18/17 12:01	12/20/17 12:37	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/18/17 12:01	12/20/17 12:37	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/18/17 12:01	12/20/17 12:37	1
Phenanthrene	ND		0.19	0.059	ug/L		12/18/17 12:01	12/20/17 12:37	1
Phenol	ND		0.95	0.57	ug/L		12/18/17 12:01	12/20/17 12:37	1
Pyrene	ND		0.19	0.040	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/18/17 12:01	12/20/17 12:37	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/18/17 12:01	12/20/17 12:37	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	116		38 - 120	12/18/17 12:01	12/20/17 12:37	1
2-Fluorophenol (Surr)	38		10 - 120	12/18/17 12:01	12/20/17 12:37	1
2,4,6-Tribromophenol (Surr)	89		28 - 120	12/18/17 12:01	12/20/17 12:37	1
Nitrobenzene-d5 (Surr)	67		32 - 120	12/18/17 12:01	12/20/17 12:37	1
Phenol-d5 (Surr)	24		10 - 120	12/18/17 12:01	12/20/17 12:37	1
Terphenyl-d14 (Surr)	86		23 - 127	12/18/17 12:01	12/20/17 12:37	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	H *	4.8	0.19	ug/L		12/21/17 12:56	12/26/17 10:56	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/21/17 12:56	12/26/17 10:56	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/21/17 12:56	12/26/17 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		38 - 120	12/21/17 12:56	12/26/17 10:56	1
2-Fluorophenol (Surr)	25		10 - 120	12/21/17 12:56	12/26/17 10:56	1
2,4,6-Tribromophenol (Surr)	68		28 - 120	12/21/17 12:56	12/26/17 10:56	1
Nitrobenzene-d5 (Surr)	49		32 - 120	12/21/17 12:56	12/26/17 10:56	1
Phenol-d5 (Surr)	17		10 - 120	12/21/17 12:56	12/26/17 10:56	1
Terphenyl-d14 (Surr)	75		23 - 127	12/21/17 12:56	12/26/17 10:56	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 14:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/18/17 10:13	12/19/17 18:42	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/18/17 10:13	12/19/17 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40		10 - 120	12/18/17 10:13	12/19/17 18:42	1
Tetrachloro-m-xylene	62		21 - 120	12/18/17 10:13	12/19/17 18:42	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.48	B	0.095	0.019	mg/L		12/18/17 10:23	12/20/17 03:44	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	95	J	200	2.4	ug/L		12/15/17 14:00	12/18/17 23:38	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 23:38	1
Cadmium	ND		5.0	0.29	ug/L		12/15/17 14:00	12/18/17 23:38	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 23:38	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 23:38	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	3.3	ug/L		12/15/17 14:00	12/18/17 23:38	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 23:38	1
Lead	ND		3.0	1.9	ug/L		12/15/17 14:00	12/18/17 23:38	1
Calcium	120000		5000	710	ug/L		12/15/17 14:00	12/18/17 23:38	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 23:38	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 23:38	1
Iron	4800		100	25	ug/L		12/15/17 14:00	12/18/17 23:38	1
Potassium	2600	J B	5000	70	ug/L		12/15/17 14:00	12/18/17 23:38	1
Magnesium	45000		5000	230	ug/L		12/15/17 14:00	12/18/17 23:38	1
Manganese	120		15	5.1	ug/L		12/15/17 14:00	12/18/17 23:38	1
Sodium	22000	B	5000	330	ug/L		12/15/17 14:00	12/18/17 23:38	1
Nickel	ND		40	1.6	ug/L		12/15/17 14:00	12/18/17 23:38	1
Antimony	ND		10	3.1	ug/L		12/15/17 14:00	12/18/17 23:38	1
Vanadium	ND		10	4.4	ug/L		12/15/17 14:00	12/18/17 23:38	1
Zinc	ND		50	16	ug/L		12/15/17 14:00	12/18/17 23:38	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/15/17 14:00	12/18/17 18:12	1
Thallium	ND		1.0	0.20	ug/L		12/15/17 14:00	12/18/17 18:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/15/17 14:00	12/18/17 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0028	J B	0.010	0.0020	mg/L		12/18/17 07:36	12/18/17 11:32	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89282-C-1 MS	Matrix Spike	97	85	103	103
240-89282-C-1 MSD	Matrix Spike Duplicate	93	86	105	104
240-89410-1	AMW-22(20171213)	108	75	94	119
240-89410-1	AMW-22(20171213)	91	71	97	98
240-89410-1 MS	AMW-22(20171213)	94	82	101	101
240-89410-1 MSD	AMW-22(20171213)	93	81	98	93
240-89410-2	AMW-22B(20171213)	103	76	104	100
240-89410-3	AMW-03(20171212)	97	78	104	108
240-89410-4	AMW-03B(20171212)	104	74	100	117
240-89410-5	AMW-10(20171212)	99	79	107	113
LCS 240-308677/4	Lab Control Sample	104	82	100	109
LCS 240-308855/4	Lab Control Sample	93	88	113	109
MB 240-308677/6	Method Blank	106	75	97	108
MB 240-308855/6	Method Blank	96	76	103	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89410-1	AMW-22(20171213)	66	39	70	60	23	82
240-89410-2	AMW-22B(20171213)	62	33	70	51	21	77
240-89410-3	AMW-03(20171212)	108	32	86	63	19	84
240-89410-3 - RE	AMW-03(20171212)	85	30	82	56	19	98
240-89410-4	AMW-03B(20171212)	115	43	72	67	29	86
240-89410-4 - RE	AMW-03B(20171212)	99	35	75	66	22	85
240-89410-5	AMW-10(20171212)	116	38	89	67	24	86
240-89410-5 - RE	AMW-10(20171212)	74	25	68	49	17	75
LCS 240-308155/20-A	Lab Control Sample	114	37	97	74	28	83
LCS 240-308397/20-A	Lab Control Sample	79	50	85	76	32	81
LCS 240-308715/10-A	Lab Control Sample	92	30	93	65	20	91
MB 240-308155/19-A	Method Blank	116	40	77	72	25	89
MB 240-308397/19-A	Method Blank	79	42	73	68	26	88
MB 240-308715/9-A	Method Blank	100	36	77	66	22	102

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (10-120)	TCX1 (21-120)
240-89410-1	AMW-22(20171213)	57	66
240-89410-2	AMW-22B(20171213)	63	71
LCS 240-308318/16-A	Lab Control Sample	88	63
MB 240-308318/15-A	Method Blank	65	60
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (10-120)	TCX2 (21-120)
240-89410-3	AMW-03(20171212)	51	57
240-89410-4	AMW-03B(20171212)	44	64
240-89410-5	AMW-10(20171212)	40	62
LCS 240-308129/10-A	Lab Control Sample	0.1 X	0 X
MB 240-308129/9-A	Method Blank	0 X	0 X
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-308677/6

Matrix: Water

Analysis Batch: 308677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/21/17 12:51	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/21/17 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/21/17 12:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/21/17 12:51	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/21/17 12:51	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/21/17 12:51	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/21/17 12:51	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/21/17 12:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/21/17 12:51	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/21/17 12:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/21/17 12:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 12:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/21/17 12:51	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/21/17 12:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/21/17 12:51	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/21/17 12:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/21/17 12:51	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/21/17 12:51	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/21/17 12:51	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/21/17 12:51	1
Allyl chloride	ND		2.0	0.38	ug/L			12/21/17 12:51	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/21/17 12:51	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/21/17 12:51	1
2-Hexanone	ND		10	1.2	ug/L			12/21/17 12:51	1
Bromobenzene	ND		1.0	0.31	ug/L			12/21/17 12:51	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/21/17 12:51	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/21/17 12:51	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/21/17 12:51	1
Acetone	ND		10	1.8	ug/L			12/21/17 12:51	1
Benzene	ND		1.0	0.28	ug/L			12/21/17 12:51	1
Bromoform	ND		1.0	0.43	ug/L			12/21/17 12:51	1
Bromomethane	ND		1.0	0.42	ug/L			12/21/17 12:51	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/21/17 12:51	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/21/17 12:51	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/21/17 12:51	1
Chloroethane	ND		1.0	0.41	ug/L			12/21/17 12:51	1
Chloroform	ND		1.0	0.31	ug/L			12/21/17 12:51	1
Chloromethane	ND		1.0	0.43	ug/L			12/21/17 12:51	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/21/17 12:51	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/21/17 12:51	1
Cyclohexane	ND		1.0	0.44	ug/L			12/21/17 12:51	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/21/17 12:51	1
Dibromomethane	ND		1.0	0.46	ug/L			12/21/17 12:51	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/21/17 12:51	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/21/17 12:51	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/21/17 12:51	1
Ethyl ether	ND		2.0	0.35	ug/L			12/21/17 12:51	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/21/17 12:51	1

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308677/6

Matrix: Water

Analysis Batch: 308677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/21/17 12:51	1
Naphthalene	ND		1.0	0.25	ug/L			12/21/17 12:51	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/21/17 12:51	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/21/17 12:51	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/21/17 12:51	1
Methyl acetate	ND		10	1.4	ug/L			12/21/17 12:51	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/21/17 12:51	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/21/17 12:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/21/17 12:51	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/21/17 12:51	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/21/17 12:51	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/21/17 12:51	1
o-Xylene	ND		1.0	0.28	ug/L			12/21/17 12:51	1
Styrene	ND		1.0	0.23	ug/L			12/21/17 12:51	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/21/17 12:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/21/17 12:51	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/21/17 12:51	1
Toluene	ND		1.0	0.23	ug/L			12/21/17 12:51	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/21/17 12:51	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/21/17 12:51	1
Trichloroethene	ND		1.0	0.33	ug/L			12/21/17 12:51	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/21/17 12:51	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/21/17 12:51	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/21/17 12:51	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/21/17 12:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		61 - 138		12/21/17 12:51	1
4-Bromofluorobenzene (Surr)	75		69 - 120		12/21/17 12:51	1
Toluene-d8 (Surr)	97		73 - 120		12/21/17 12:51	1
Dibromofluoromethane (Surr)	108		69 - 124		12/21/17 12:51	1

Lab Sample ID: LCS 240-308677/4

Matrix: Water

Analysis Batch: 308677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	73 - 136
1,1,1-Trichloroethane	10.0	12.9		ug/L		129	64 - 147
1,1,2,2-Tetrachloroethane	10.0	8.23		ug/L		82	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.8		ug/L		128	65 - 144
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	76 - 121
1,1-Dichloroethane	10.0	10.8		ug/L		108	74 - 120
1,1-Dichloroethene	10.0	12.4		ug/L		124	65 - 127
1,1-Dichloropropene	10.0	11.3		ug/L		113	80 - 122
1,2,3-Trichlorobenzene	10.0	10.6		ug/L		106	31 - 144
1,2,3-Trichloropropane	10.0	9.82		ug/L		98	53 - 134

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308677/4

Matrix: Water

Analysis Batch: 308677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	10.0		ug/L		100	34 - 141
1,2,4-Trimethylbenzene	10.0	9.47		ug/L		95	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.12		ug/L		81	50 - 130
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	10.0	12.0		ug/L		120	68 - 133
1,2-Dichloropropane	10.0	10.7		ug/L		107	78 - 127
1,3,5-Trimethylbenzene	10.0	9.30		ug/L		93	79 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,3-Dichloropropane	10.0	9.96		ug/L		100	71 - 124
1,4-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
Allyl chloride	10.0	7.07		ug/L		71	57 - 143
2,2-Dichloropropane	10.0	12.0		ug/L		120	32 - 178
2-Chlorotoluene	10.0	11.0		ug/L		110	80 - 120
2-Hexanone	20.0	11.3		ug/L		56	28 - 169
Bromobenzene	10.0	11.1		ug/L		111	73 - 120
Bromochloromethane	10.0	12.2 *		ug/L		122	78 - 120
4-Chlorotoluene	10.0	11.3		ug/L		113	79 - 120
p-Isopropyltoluene	10.0	8.68		ug/L		87	78 - 125
Acetone	20.0	13.3		ug/L		67	35 - 131
Benzene	10.0	11.2		ug/L		112	79 - 120
Bromoform	10.0	7.11		ug/L		71	55 - 145
Bromomethane	10.0	11.0		ug/L		110	17 - 158
Carbon disulfide	10.0	10.9		ug/L		109	49 - 141
Carbon tetrachloride	10.0	12.7		ug/L		127	55 - 171
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120
Chloroethane	10.0	11.3		ug/L		113	10 - 149
Chloroform	10.0	11.8		ug/L		118	80 - 120
Chloromethane	10.0	9.91		ug/L		99	59 - 124
cis-1,2-Dichloroethene	10.0	12.1 *		ug/L		121	77 - 120
cis-1,3-Dichloropropene	10.0	9.45		ug/L		94	75 - 120
Cyclohexane	10.0	10.4		ug/L		104	66 - 135
Hexachlorobutadiene	10.0	11.0		ug/L		110	36 - 146
Dibromomethane	10.0	10.6		ug/L		106	80 - 120
Bromodichloromethane	10.0	10.9		ug/L		109	79 - 125
Dichlorodifluoromethane	10.0	10.8		ug/L		108	42 - 141
Dichlorofluoromethane	10.0	10.4		ug/L		104	28 - 138
Ethyl ether	10.0	8.91		ug/L		89	72 - 125
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dibromoethane	10.0	9.57		ug/L		96	80 - 120
Naphthalene	10.0	7.70		ug/L		77	31 - 127
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
n-Butylbenzene	10.0	7.58		ug/L		76	60 - 137
Isopropylbenzene	10.0	9.36		ug/L		94	80 - 128
Methyl acetate	20.0	13.7		ug/L		69	63 - 137
N-Propylbenzene	10.0	9.90		ug/L		99	76 - 120
2-Butanone (MEK)	20.0	15.4		ug/L		77	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	14.2		ug/L		71	53 - 144
sec-Butylbenzene	10.0	8.51		ug/L		85	76 - 124

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308677/4

Matrix: Water

Analysis Batch: 308677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	10.0	9.36		ug/L		94	73 - 120
Methylene Chloride	10.0	10.2		ug/L		102	64 - 140
o-Xylene	10.0	10.2		ug/L		102	80 - 120
Styrene	10.0	9.46		ug/L		95	80 - 121
tert-Butylbenzene	10.0	9.01		ug/L		90	79 - 120
Tetrachloroethene	10.0	11.7		ug/L		117	80 - 122
Tetrahydrofuran	20.0	15.1		ug/L		76	63 - 131
Toluene	10.0	10.7		ug/L		107	78 - 120
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	74 - 124
trans-1,3-Dichloropropene	10.0	8.51		ug/L		85	67 - 120
Trichloroethene	10.0	12.7	*	ug/L		127	76 - 124
Trichlorofluoromethane	10.0	11.3		ug/L		113	27 - 176
Vinyl chloride	10.0	8.54		ug/L		85	65 - 124
Methylcyclohexane	10.0	9.47		ug/L		95	63 - 141
Chlorodibromomethane	10.0	9.20		ug/L		92	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		61 - 138
4-Bromofluorobenzene (Surr)	82		69 - 120
Toluene-d8 (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	109		69 - 124

Lab Sample ID: 240-89410-1 MS

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	67 - 142
1,1,1-Trichloroethane	ND		10.0	10.1		ug/L		101	57 - 156
1,1,2,2-Tetrachloroethane	ND	F2	10.0	9.27		ug/L		93	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	6.51		ug/L		65	58 - 137
1,1,2-Trichloroethane	ND		10.0	10.1		ug/L		101	68 - 127
1,1-Dichloroethane	ND		10.0	8.50		ug/L		85	69 - 122
1,1-Dichloroethene	ND		10.0	8.28		ug/L		83	62 - 127
1,1-Dichloropropene	ND		10.0	8.56		ug/L		86	55 - 136
1,2,3-Trichlorobenzene	ND		10.0	8.95		ug/L		89	40 - 139
1,2,3-Trichloropropane	ND		10.0	8.78		ug/L		88	41 - 152
1,2,4-Trichlorobenzene	ND		10.0	8.04		ug/L		80	26 - 138
1,2,4-Trimethylbenzene	ND		10.0	7.73		ug/L		77	64 - 120
1,2-Dibromo-3-Chloropropane	ND		10.0	7.17		ug/L		72	48 - 130
1,2-Dichlorobenzene	ND		10.0	9.21		ug/L		92	70 - 120
1,2-Dichloroethane	ND		10.0	9.46		ug/L		95	64 - 138
1,2-Dichloropropane	ND	F2	10.0	7.35		ug/L		73	72 - 131
1,3,5-Trimethylbenzene	ND		10.0	8.25		ug/L		82	67 - 120
1,3-Dichlorobenzene	ND		10.0	9.11		ug/L		91	71 - 120
1,3-Dichloropropane	ND		10.0	9.07		ug/L		91	58 - 137
1,4-Dichlorobenzene	ND		10.0	9.10		ug/L		91	72 - 120

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89410-1 MS

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Allyl chloride	ND	F1 F2	10.0	5.44	F1	ug/L		54	55 - 137
2,2-Dichloropropane	ND		10.0	8.69		ug/L		87	34 - 153
2-Chlorotoluene	ND		10.0	9.58		ug/L		96	52 - 134
2-Hexanone	ND		20.0	11.3		ug/L		57	21 - 184
Bromobenzene	ND		10.0	10.5		ug/L		105	59 - 131
Bromochloromethane	ND	*	10.0	10.2		ug/L		102	66 - 132
4-Chlorotoluene	ND		10.0	9.84		ug/L		98	52 - 133
p-Isopropyltoluene	ND		10.0	7.24		ug/L		72	70 - 120
Acetone	3.6	J	20.0	11.3		ug/L		38	19 - 133
Benzene	ND		10.0	9.12		ug/L		91	69 - 127
Bromoform	ND		10.0	6.31		ug/L		63	61 - 135
Bromomethane	ND		10.0	7.36		ug/L		74	10 - 148
Carbon disulfide	ND		10.0	8.53		ug/L		85	46 - 143
Carbon tetrachloride	ND		10.0	8.85		ug/L		88	53 - 175
Chlorobenzene	ND		10.0	9.89		ug/L		99	76 - 120
Chloroethane	ND		10.0	8.51		ug/L		85	10 - 141
Chloroform	ND		10.0	9.33		ug/L		93	74 - 125
Chloromethane	ND		10.0	6.93		ug/L		69	34 - 127
cis-1,2-Dichloroethene	1.3	*	10.0	10.4		ug/L		92	69 - 127
cis-1,3-Dichloropropene	ND	F1	10.0	6.17	F1	ug/L		62	68 - 120
Cyclohexane	ND		10.0	6.59		ug/L		66	56 - 135
Hexachlorobutadiene	ND		10.0	7.33		ug/L		73	30 - 134
Dibromomethane	ND	F1	10.0	7.63		ug/L		76	73 - 120
Bromodichloromethane	ND	F1	10.0	7.86		ug/L		79	75 - 128
Dichlorodifluoromethane	ND		10.0	6.81		ug/L		68	45 - 130
Dichlorofluoromethane	ND		10.0	7.37		ug/L		74	36 - 161
Ethyl ether	ND		10.0	7.15		ug/L		71	65 - 124
Ethylbenzene	ND		10.0	9.15		ug/L		92	72 - 121
1,2-Dibromoethane	ND		10.0	8.88		ug/L		89	73 - 121
Naphthalene	ND		10.0	6.96		ug/L		70	28 - 150
m-Xylene & p-Xylene	ND		10.0	9.04		ug/L		90	70 - 121
n-Butylbenzene	ND		10.0	5.56		ug/L		56	38 - 133
Isopropylbenzene	ND		10.0	8.10		ug/L		81	70 - 132
Methyl acetate	ND	F2	20.0	11.1		ug/L		56	52 - 139
N-Propylbenzene	ND		10.0	8.99		ug/L		90	50 - 134
2-Butanone (MEK)	ND		20.0	12.7		ug/L		64	34 - 153
4-Methyl-2-pentanone (MIBK)	ND	F1	20.0	10.8		ug/L		54	53 - 147
sec-Butylbenzene	ND		10.0	6.83		ug/L		68	43 - 133
Methyl tert butyl ether	ND		10.0	7.60		ug/L		76	67 - 125
Methylene Chloride	ND		10.0	7.33		ug/L		73	52 - 137
o-Xylene	ND		10.0	9.31		ug/L		93	71 - 125
Styrene	ND		10.0	8.61		ug/L		86	74 - 125
tert-Butylbenzene	ND		10.0	7.71		ug/L		77	48 - 131
Tetrachloroethene	ND		10.0	10.2		ug/L		102	69 - 126
Tetrahydrofuran	ND		20.0	14.2		ug/L		71	40 - 128
Toluene	ND		10.0	9.33		ug/L		93	69 - 125
trans-1,2-Dichloroethene	ND		10.0	8.66		ug/L		87	66 - 131
trans-1,3-Dichloropropene	ND		10.0	7.36		ug/L		74	59 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89410-1 MS

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	ND	* F2	10.0	8.59		ug/L		86	68 - 129
Trichlorofluoromethane	ND		10.0	7.63		ug/L		76	28 - 172
Vinyl chloride	ND		10.0	5.55		ug/L		55	55 - 123
Methylcyclohexane	ND	F1 F2	10.0	4.26	F1	ug/L		43	46 - 139
Chlorodibromomethane	ND		10.0	7.96		ug/L		80	62 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		61 - 138
4-Bromofluorobenzene (Surr)	82		69 - 120
Toluene-d8 (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	101		69 - 124

Lab Sample ID: 240-89410-1 MSD

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	10.0		ug/L		100	67 - 142	2	18
1,1,1-Trichloroethane	ND		10.0	9.26		ug/L		93	57 - 156	9	13
1,1,2,2-Tetrachloroethane	ND	F2	10.0	7.71	F2	ug/L		77	51 - 123	18	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	7.51		ug/L		75	58 - 137	14	35
1,1,2-Trichloroethane	ND		10.0	9.91		ug/L		99	68 - 127	2	11
1,1-Dichloroethane	ND		10.0	8.46		ug/L		85	69 - 122	0	11
1,1-Dichloroethene	ND		10.0	8.16		ug/L		82	62 - 127	1	14
1,1-Dichloropropene	ND		10.0	8.85		ug/L		89	55 - 136	3	35
1,2,3-Trichlorobenzene	ND		10.0	9.45		ug/L		95	40 - 139	6	35
1,2,3-Trichloropropane	ND		10.0	9.45		ug/L		94	41 - 152	7	12
1,2,4-Trichlorobenzene	ND		10.0	8.30		ug/L		83	26 - 138	3	35
1,2,4-Trimethylbenzene	ND		10.0	8.06		ug/L		81	64 - 120	4	22
1,2-Dibromo-3-Chloropropane	ND		10.0	6.19		ug/L		62	48 - 130	15	31
1,2-Dichlorobenzene	ND		10.0	9.21		ug/L		92	70 - 120	0	19
1,2-Dichloroethane	ND		10.0	9.26		ug/L		93	64 - 138	2	11
1,2-Dichloropropane	ND	F2	10.0	8.34	F2	ug/L		83	72 - 131	13	12
1,3,5-Trimethylbenzene	ND		10.0	8.06		ug/L		81	67 - 120	2	25
1,3-Dichlorobenzene	ND		10.0	8.86		ug/L		89	71 - 120	3	18
1,3-Dichloropropane	ND		10.0	9.49		ug/L		95	58 - 137	4	35
1,4-Dichlorobenzene	ND		10.0	8.61		ug/L		86	72 - 120	6	17
Allyl chloride	ND	F1 F2	10.0	7.05	F2	ug/L		71	55 - 137	26	20
2,2-Dichloropropane	ND		10.0	8.46		ug/L		85	34 - 153	3	35
2-Chlorotoluene	ND		10.0	9.39		ug/L		94	52 - 134	2	35
2-Hexanone	ND		20.0	10.9		ug/L		55	21 - 184	4	12
Bromobenzene	ND		10.0	10.4		ug/L		104	59 - 131	0	35
Bromochloromethane	ND	*	10.0	9.75		ug/L		97	66 - 132	5	15
4-Chlorotoluene	ND		10.0	9.65		ug/L		97	52 - 133	2	35
p-Isopropyltoluene	ND		10.0	7.35		ug/L		73	70 - 120	2	22
Acetone	3.6	J	20.0	11.3		ug/L		38	19 - 133	0	35
Benzene	ND		10.0	9.66		ug/L		97	69 - 127	6	10

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89410-1 MSD

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	6.61		ug/L		66	61 - 135	5	13
Bromomethane	ND		10.0	8.31		ug/L		83	10 - 148	12	35
Carbon disulfide	ND		10.0	8.39		ug/L		84	46 - 143	2	18
Carbon tetrachloride	ND		10.0	9.21		ug/L		92	53 - 175	4	17
Chlorobenzene	ND		10.0	10.0		ug/L		100	76 - 120	1	12
Chloroethane	ND		10.0	8.61		ug/L		86	10 - 141	1	35
Chloroform	ND		10.0	9.20		ug/L		92	74 - 125	1	11
Chloromethane	ND		10.0	6.63		ug/L		66	34 - 127	5	25
cis-1,2-Dichloroethene	1.3	*	10.0	10.1		ug/L		89	69 - 127	3	11
cis-1,3-Dichloropropene	ND	F1	10.0	5.99	F1	ug/L		60	68 - 120	3	13
Cyclohexane	ND		10.0	7.33		ug/L		73	56 - 135	11	35
Hexachlorobutadiene	ND		10.0	8.56		ug/L		86	30 - 134	15	35
Dibromomethane	ND	F1	10.0	6.84	F1	ug/L		68	73 - 120	11	16
Bromodichloromethane	ND	F1	10.0	7.22	F1	ug/L		72	75 - 128	8	13
Dichlorodifluoromethane	ND		10.0	6.44		ug/L		64	45 - 130	6	34
Dichlorofluoromethane	ND		10.0	7.82		ug/L		78	36 - 161	6	35
Ethyl ether	ND		10.0	6.70		ug/L		67	65 - 124	7	11
Ethylbenzene	ND		10.0	9.11		ug/L		91	72 - 121	0	15
1,2-Dibromoethane	ND		10.0	8.91		ug/L		89	73 - 121	0	12
Naphthalene	ND		10.0	7.11		ug/L		71	28 - 150	2	35
m-Xylene & p-Xylene	ND		10.0	9.31		ug/L		93	70 - 121	3	15
n-Butylbenzene	ND		10.0	5.94		ug/L		59	38 - 133	7	35
Isopropylbenzene	ND		10.0	8.21		ug/L		82	70 - 132	1	16
Methyl acetate	ND	F2	20.0	13.1	F2	ug/L		66	52 - 139	17	14
N-Propylbenzene	ND		10.0	8.65		ug/L		87	50 - 134	4	35
2-Butanone (MEK)	ND		20.0	12.0		ug/L		60	34 - 153	6	23
4-Methyl-2-pentanone (MIBK)	ND	F1	20.0	10.2	F1	ug/L		51	53 - 147	5	16
sec-Butylbenzene	ND		10.0	7.16		ug/L		72	43 - 133	5	35
Methyl tert butyl ether	ND		10.0	7.36		ug/L		74	67 - 125	3	12
Methylene Chloride	ND		10.0	8.14		ug/L		81	52 - 137	10	12
o-Xylene	ND		10.0	9.19		ug/L		92	71 - 125	1	15
Styrene	ND		10.0	8.62		ug/L		86	74 - 125	0	14
tert-Butylbenzene	ND		10.0	7.54		ug/L		75	48 - 131	2	35
Tetrachloroethene	ND		10.0	10.5		ug/L		105	69 - 126	3	18
Tetrahydrofuran	ND		20.0	12.8		ug/L		64	40 - 128	11	15
Toluene	ND		10.0	9.66		ug/L		97	69 - 125	3	14
trans-1,2-Dichloroethene	ND		10.0	8.38		ug/L		84	66 - 131	3	11
trans-1,3-Dichloropropene	ND		10.0	7.36		ug/L		74	59 - 120	0	14
Trichloroethene	ND	* F2	10.0	10.2	F2	ug/L		102	68 - 129	17	12
Trichlorofluoromethane	ND		10.0	7.43		ug/L		74	28 - 172	3	26
Vinyl chloride	ND		10.0	6.14		ug/L		61	55 - 123	10	12
Methylcyclohexane	ND	F1 F2	10.0	6.54	F2	ug/L		65	46 - 139	42	35
Chlorodibromomethane	ND		10.0	8.45		ug/L		84	62 - 131	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		61 - 138
4-Bromofluorobenzene (Surr)	81		69 - 120
Toluene-d8 (Surr)	98		73 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89410-1 MSD

Matrix: Water

Analysis Batch: 308677

Client Sample ID: AMW-22(20171213)

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	93		69 - 124

Lab Sample ID: MB 240-308855/6

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/22/17 14:36	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 14:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/22/17 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/22/17 14:36	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/22/17 14:36	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/22/17 14:36	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/22/17 14:36	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/22/17 14:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/22/17 14:36	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/22/17 14:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/22/17 14:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 14:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/22/17 14:36	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/22/17 14:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/22/17 14:36	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/22/17 14:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/22/17 14:36	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/22/17 14:36	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/22/17 14:36	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/22/17 14:36	1
Allyl chloride	ND		2.0	0.38	ug/L			12/22/17 14:36	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/22/17 14:36	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/22/17 14:36	1
2-Hexanone	ND		10	1.2	ug/L			12/22/17 14:36	1
Bromobenzene	ND		1.0	0.31	ug/L			12/22/17 14:36	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/22/17 14:36	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/22/17 14:36	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/22/17 14:36	1
Acetone	ND		10	1.8	ug/L			12/22/17 14:36	1
Benzene	ND		1.0	0.28	ug/L			12/22/17 14:36	1
Bromoform	ND		1.0	0.43	ug/L			12/22/17 14:36	1
Bromomethane	ND		1.0	0.42	ug/L			12/22/17 14:36	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/22/17 14:36	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/22/17 14:36	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/22/17 14:36	1
Chloroethane	ND		1.0	0.41	ug/L			12/22/17 14:36	1
Chloroform	ND		1.0	0.31	ug/L			12/22/17 14:36	1
Chloromethane	ND		1.0	0.43	ug/L			12/22/17 14:36	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/22/17 14:36	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/22/17 14:36	1
Cyclohexane	ND		1.0	0.44	ug/L			12/22/17 14:36	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308855/6

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/22/17 14:36	1
Dibromomethane	ND		1.0	0.46	ug/L			12/22/17 14:36	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/22/17 14:36	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/22/17 14:36	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/22/17 14:36	1
Ethyl ether	ND		2.0	0.35	ug/L			12/22/17 14:36	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/22/17 14:36	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/22/17 14:36	1
Naphthalene	ND		1.0	0.25	ug/L			12/22/17 14:36	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/22/17 14:36	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/22/17 14:36	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/22/17 14:36	1
Methyl acetate	ND		10	1.4	ug/L			12/22/17 14:36	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/22/17 14:36	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/22/17 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/22/17 14:36	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/22/17 14:36	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/22/17 14:36	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/22/17 14:36	1
o-Xylene	ND		1.0	0.28	ug/L			12/22/17 14:36	1
Styrene	ND		1.0	0.23	ug/L			12/22/17 14:36	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/22/17 14:36	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/22/17 14:36	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/22/17 14:36	1
Toluene	ND		1.0	0.23	ug/L			12/22/17 14:36	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 14:36	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/22/17 14:36	1
Trichloroethene	ND		1.0	0.33	ug/L			12/22/17 14:36	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/22/17 14:36	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/22/17 14:36	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/22/17 14:36	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/22/17 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		61 - 138		12/22/17 14:36	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/22/17 14:36	1
Toluene-d8 (Surr)	103		73 - 120		12/22/17 14:36	1
Dibromofluoromethane (Surr)	105		69 - 124		12/22/17 14:36	1

Lab Sample ID: LCS 240-308855/4

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.4		ug/L		114	73 - 136
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	64 - 147
1,1,2,2-Tetrachloroethane	10.0	9.89		ug/L		99	58 - 122

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308855/4

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.3		ug/L		103	65 - 144
1,1,2-Trichloroethane	10.0	11.7		ug/L		117	76 - 121
1,1-Dichloroethane	10.0	10.9		ug/L		109	74 - 120
1,1-Dichloroethene	10.0	11.2		ug/L		112	65 - 127
1,1-Dichloropropene	10.0	11.0		ug/L		110	80 - 122
1,2,3-Trichlorobenzene	10.0	9.97		ug/L		100	31 - 144
1,2,3-Trichloropropane	10.0	10.1		ug/L		101	53 - 134
1,2,4-Trichlorobenzene	10.0	8.98		ug/L		90	34 - 141
1,2,4-Trimethylbenzene	10.0	10.0		ug/L		100	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	7.30		ug/L		73	50 - 130
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	68 - 133
1,2-Dichloropropane	10.0	11.5		ug/L		115	78 - 127
1,3,5-Trimethylbenzene	10.0	10.1		ug/L		101	79 - 120
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichloropropane	10.0	11.0		ug/L		110	71 - 124
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
Allyl chloride	10.0	10.8		ug/L		108	57 - 143
2,2-Dichloropropane	10.0	9.89		ug/L		99	32 - 178
2-Chlorotoluene	10.0	11.2		ug/L		112	80 - 120
2-Hexanone	20.0	12.0		ug/L		60	28 - 169
Bromobenzene	10.0	11.7		ug/L		117	73 - 120
Bromochloromethane	10.0	11.7		ug/L		117	78 - 120
4-Chlorotoluene	10.0	11.4		ug/L		114	79 - 120
p-Isopropyltoluene	10.0	9.33		ug/L		93	78 - 125
Acetone	20.0	12.0		ug/L		60	35 - 131
Benzene	10.0	11.3		ug/L		113	79 - 120
Bromoform	10.0	8.48		ug/L		85	55 - 145
Bromomethane	10.0	10.5		ug/L		105	17 - 158
Carbon disulfide	10.0	11.8		ug/L		118	49 - 141
Carbon tetrachloride	10.0	11.5		ug/L		115	55 - 171
Chlorobenzene	10.0	11.8		ug/L		118	80 - 120
Chloroethane	10.0	10.4		ug/L		104	10 - 149
Chloroform	10.0	11.0		ug/L		110	80 - 120
Chloromethane	10.0	10.1		ug/L		101	59 - 124
cis-1,2-Dichloroethene	10.0	11.6		ug/L		116	77 - 120
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	75 - 120
Cyclohexane	10.0	9.98		ug/L		100	66 - 135
Hexachlorobutadiene	10.0	9.98		ug/L		100	36 - 146
Dibromomethane	10.0	10.1		ug/L		101	80 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	79 - 125
Dichlorodifluoromethane	10.0	10.5		ug/L		105	42 - 141
Dichlorofluoromethane	10.0	9.38		ug/L		94	28 - 138
Ethyl ether	10.0	8.91		ug/L		89	72 - 125
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120
1,2-Dibromoethane	10.0	9.78		ug/L		98	80 - 120
Naphthalene	10.0	7.71		ug/L		77	31 - 127

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308855/4

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	10.0	11.1		ug/L		111	80 - 120
n-Butylbenzene	10.0	8.30		ug/L		83	60 - 137
Isopropylbenzene	10.0	10.0		ug/L		100	80 - 128
Methyl acetate	20.0	17.5		ug/L		88	63 - 137
N-Propylbenzene	10.0	11.1		ug/L		111	76 - 120
2-Butanone (MEK)	20.0	13.4		ug/L		67	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	13.7		ug/L		69	53 - 144
sec-Butylbenzene	10.0	9.56		ug/L		96	76 - 124
Methyl tert butyl ether	10.0	8.85		ug/L		89	73 - 120
Methylene Chloride	10.0	11.7		ug/L		117	64 - 140
o-Xylene	10.0	10.9		ug/L		109	80 - 120
Styrene	10.0	10.3		ug/L		103	80 - 121
tert-Butylbenzene	10.0	9.49		ug/L		95	79 - 120
Tetrachloroethene	10.0	11.5		ug/L		115	80 - 122
Tetrahydrofuran	20.0	15.1		ug/L		75	63 - 131
Toluene	10.0	11.5		ug/L		115	78 - 120
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	74 - 124
trans-1,3-Dichloropropene	10.0	9.12		ug/L		91	67 - 120
Trichloroethene	10.0	11.9		ug/L		119	76 - 124
Trichlorofluoromethane	10.0	9.50		ug/L		95	27 - 176
Vinyl chloride	10.0	10.3		ug/L		103	65 - 124
Methylcyclohexane	10.0	9.41		ug/L		94	63 - 141
Chlorodibromomethane	10.0	10.1		ug/L		101	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		61 - 138
4-Bromofluorobenzene (Surr)	88		69 - 120
Toluene-d8 (Surr)	113		73 - 120
Dibromofluoromethane (Surr)	109		69 - 124

Lab Sample ID: 240-89282-C-1 MS

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		80.0	77.9		ug/L		97	57 - 156
1,1,2,2-Tetrachloroethane	ND		80.0	74.7		ug/L		93	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	85	F1	80.0	123	F1	ug/L		48	58 - 137
1,1,2-Trichloroethane	ND		80.0	83.8		ug/L		105	68 - 127
1,1-Dichloroethane	ND		80.0	78.6		ug/L		98	69 - 122
1,1-Dichloroethene	ND		80.0	77.7		ug/L		97	62 - 127
1,2,4-Trichlorobenzene	ND		80.0	57.4		ug/L		72	26 - 138
1,2-Dibromo-3-Chloropropane	ND		80.0	63.6		ug/L		79	48 - 130
1,2-Dichlorobenzene	ND		80.0	69.9		ug/L		87	70 - 120
1,2-Dichloroethane	ND		80.0	76.6		ug/L		96	64 - 138
1,2-Dichloropropane	ND		80.0	81.6		ug/L		102	72 - 131
1,3-Dichlorobenzene	ND		80.0	69.1		ug/L		86	71 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89282-C-1 MS

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		80.0	69.6		ug/L		87	72 - 120
2-Hexanone	ND		160	92.1		ug/L		58	21 - 184
Acetone	ND		160	96.6		ug/L		60	19 - 133
Benzene	ND		80.0	78.1		ug/L		98	69 - 127
Bromoform	ND		80.0	52.7		ug/L		66	61 - 135
Bromomethane	ND		80.0	70.7		ug/L		88	10 - 148
Carbon disulfide	ND		80.0	80.5		ug/L		101	46 - 143
Carbon tetrachloride	ND		80.0	68.8		ug/L		86	53 - 175
Chlorobenzene	ND		80.0	77.1		ug/L		96	76 - 120
Chloroethane	ND		80.0	72.7		ug/L		91	10 - 141
Chloroform	ND		80.0	81.0		ug/L		101	74 - 125
Chloromethane	ND		80.0	74.4		ug/L		93	34 - 127
cis-1,2-Dichloroethene	6.5	J	80.0	89.0		ug/L		103	69 - 127
cis-1,3-Dichloropropene	ND		80.0	63.6		ug/L		80	68 - 120
Cyclohexane	ND		80.0	48.9		ug/L		61	56 - 135
Bromodichloromethane	ND		80.0	74.9		ug/L		94	75 - 128
Dichlorodifluoromethane	ND	F2	80.0	46.9		ug/L		59	45 - 130
Ethylbenzene	ND		80.0	70.3		ug/L		88	72 - 121
1,2-Dibromoethane	ND		80.0	70.6		ug/L		88	73 - 121
m-Xylene & p-Xylene	ND		80.0	69.9		ug/L		87	70 - 121
Isopropylbenzene	ND		80.0	59.7		ug/L		75	70 - 132
Methyl acetate	ND		160	138		ug/L		86	52 - 139
2-Butanone (MEK)	ND		160	114		ug/L		71	34 - 153
4-Methyl-2-pentanone (MIBK)	ND		160	107		ug/L		67	53 - 147
Methyl tert butyl ether	ND		80.0	68.8		ug/L		86	67 - 125
Methylene Chloride	ND		80.0	88.5		ug/L		111	52 - 137
o-Xylene	ND		80.0	69.9		ug/L		87	71 - 125
Styrene	ND		80.0	68.5		ug/L		86	74 - 125
Tetrachloroethene	170	F1	80.0	212	F1	ug/L		56	69 - 126
Toluene	ND		80.0	78.0		ug/L		98	69 - 125
trans-1,2-Dichloroethene	ND		80.0	78.8		ug/L		99	66 - 131
trans-1,3-Dichloropropene	ND		80.0	58.5		ug/L		73	59 - 120
Trichloroethene	17		80.0	91.1		ug/L		93	68 - 129
Trichlorofluoromethane	ND		80.0	58.9		ug/L		74	28 - 172
Vinyl chloride	ND		80.0	74.6		ug/L		93	55 - 123
Methylcyclohexane	ND		80.0	41.4		ug/L		52	46 - 139
Chlorodibromomethane	ND		80.0	67.3		ug/L		84	62 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		61 - 138
4-Bromofluorobenzene (Surr)	85		69 - 120
Toluene-d8 (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	103		69 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89282-C-1 MSD

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		80.0	82.3		ug/L		103	57 - 156	6	13
1,1,2,2-Tetrachloroethane	ND		80.0	78.4		ug/L		98	51 - 123	5	17
1,1,2-Trichloro-1,2,2-trifluoroethane	85	F1	80.0	135		ug/L		63	58 - 137	10	35
1,1,2-Trichloroethane	ND		80.0	85.7		ug/L		107	68 - 127	2	11
1,1-Dichloroethane	ND		80.0	80.6		ug/L		101	69 - 122	3	11
1,1-Dichloroethene	ND		80.0	78.3		ug/L		98	62 - 127	1	14
1,2,4-Trichlorobenzene	ND		80.0	61.2		ug/L		77	26 - 138	6	35
1,2-Dibromo-3-Chloropropane	ND		80.0	60.1		ug/L		75	48 - 130	6	31
1,2-Dichlorobenzene	ND		80.0	73.0		ug/L		91	70 - 120	4	19
1,2-Dichloroethane	ND		80.0	78.3		ug/L		98	64 - 138	2	11
1,2-Dichloropropane	ND		80.0	84.3		ug/L		105	72 - 131	3	12
1,3-Dichlorobenzene	ND		80.0	72.1		ug/L		90	71 - 120	4	18
1,4-Dichlorobenzene	ND		80.0	70.8		ug/L		89	72 - 120	2	17
2-Hexanone	ND		160	94.9		ug/L		59	21 - 184	3	12
Acetone	ND		160	100		ug/L		63	19 - 133	4	35
Benzene	ND		80.0	81.3		ug/L		102	69 - 127	4	10
Bromoform	ND		80.0	53.6		ug/L		67	61 - 135	2	13
Bromomethane	ND		80.0	70.8		ug/L		88	10 - 148	0	35
Carbon disulfide	ND		80.0	82.1		ug/L		103	46 - 143	2	18
Carbon tetrachloride	ND		80.0	76.3		ug/L		95	53 - 175	10	17
Chlorobenzene	ND		80.0	80.3		ug/L		100	76 - 120	4	12
Chloroethane	ND		80.0	77.9		ug/L		97	10 - 141	7	35
Chloroform	ND		80.0	81.5		ug/L		102	74 - 125	1	11
Chloromethane	ND		80.0	74.8		ug/L		94	34 - 127	1	25
cis-1,2-Dichloroethene	6.5	J	80.0	89.6		ug/L		104	69 - 127	1	11
cis-1,3-Dichloropropene	ND		80.0	69.4		ug/L		87	68 - 120	9	13
Cyclohexane	ND		80.0	67.8		ug/L		85	56 - 135	32	35
Bromodichloromethane	ND		80.0	77.6		ug/L		97	75 - 128	4	13
Dichlorodifluoromethane	ND	F2	80.0	66.9	F2	ug/L		84	45 - 130	35	34
Ethylbenzene	ND		80.0	75.7		ug/L		95	72 - 121	7	15
1,2-Dibromoethane	ND		80.0	77.8		ug/L		97	73 - 121	10	12
m-Xylene & p-Xylene	ND		80.0	72.0		ug/L		90	70 - 121	3	15
Isopropylbenzene	ND		80.0	64.2		ug/L		80	70 - 132	7	16
Methyl acetate	ND		160	144		ug/L		90	52 - 139	5	14
2-Butanone (MEK)	ND		160	117		ug/L		73	34 - 153	3	23
4-Methyl-2-pentanone (MIBK)	ND		160	115		ug/L		72	53 - 147	7	16
Methyl tert butyl ether	ND		80.0	70.5		ug/L		88	67 - 125	2	12
Methylene Chloride	ND		80.0	91.2		ug/L		114	52 - 137	3	12
o-Xylene	ND		80.0	72.4		ug/L		91	71 - 125	4	15
Styrene	ND		80.0	69.5		ug/L		87	74 - 125	1	14
Tetrachloroethene	170	F1	80.0	216	F1	ug/L		61	69 - 126	2	18
Toluene	ND		80.0	80.1		ug/L		100	69 - 125	3	14
trans-1,2-Dichloroethene	ND		80.0	81.2		ug/L		102	66 - 131	3	11
trans-1,3-Dichloropropene	ND		80.0	61.6		ug/L		77	59 - 120	5	14
Trichloroethene	17		80.0	96.6		ug/L		100	68 - 129	6	12
Trichlorofluoromethane	ND		80.0	63.7		ug/L		80	28 - 172	8	26
Vinyl chloride	ND		80.0	76.0		ug/L		95	55 - 123	2	12

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89282-C-1 MSD

Matrix: Water

Analysis Batch: 308855

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane	ND		80.0	58.9		ug/L		74	46 - 139	35	35
Chlorodibromomethane	ND		80.0	71.4		ug/L		89	62 - 131	6	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93		61 - 138								
4-Bromofluorobenzene (Surr)	86		69 - 120								
Toluene-d8 (Surr)	105		73 - 120								
Dibromofluoromethane (Surr)	104		69 - 124								

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-308155/19-A

Matrix: Water

Analysis Batch: 308444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/18/17 12:01	12/20/17 10:23	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/18/17 12:01	12/20/17 10:23	1
Acetophenone	ND		1.0	0.34	ug/L		12/18/17 12:01	12/20/17 10:23	1
Anthracene	ND		0.20	0.088	ug/L		12/18/17 12:01	12/20/17 10:23	1
Atrazine	ND		2.0	0.34	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/18/17 12:01	12/20/17 10:23	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/18/17 12:01	12/20/17 10:23	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/18/17 12:01	12/20/17 10:23	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/18/17 12:01	12/20/17 10:23	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/18/17 12:01	12/20/17 10:23	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/18/17 12:01	12/20/17 10:23	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/18/17 12:01	12/20/17 10:23	1
Caprolactam	ND		5.0	0.20	ug/L		12/18/17 12:01	12/20/17 10:23	1
Carbazole	ND		1.0	0.28	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/18/17 12:01	12/20/17 10:23	1
Chrysene	ND		0.20	0.050	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/18/17 12:01	12/20/17 10:23	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/18/17 12:01	12/20/17 10:23	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/18/17 12:01	12/20/17 10:23	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/18/17 12:01	12/20/17 10:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/18/17 12:01	12/20/17 10:23	1
Diethyl phthalate	ND		2.0	0.60	ug/L		12/18/17 12:01	12/20/17 10:23	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308155/19-A

Matrix: Water

Analysis Batch: 308444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/18/17 12:01	12/20/17 10:23	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/18/17 12:01	12/20/17 10:23	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/18/17 12:01	12/20/17 10:23	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/18/17 12:01	12/20/17 10:23	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/18/17 12:01	12/20/17 10:23	1
Fluoranthene	ND		0.20	0.045	ug/L		12/18/17 12:01	12/20/17 10:23	1
Fluorene	ND		0.20	0.041	ug/L		12/18/17 12:01	12/20/17 10:23	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/18/17 12:01	12/20/17 10:23	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/18/17 12:01	12/20/17 10:23	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/18/17 12:01	12/20/17 10:23	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/18/17 12:01	12/20/17 10:23	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/18/17 12:01	12/20/17 10:23	1
Isophorone	ND		1.0	0.27	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/18/17 12:01	12/20/17 10:23	1
Naphthalene	ND		0.20	0.063	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/18/17 12:01	12/20/17 10:23	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/18/17 12:01	12/20/17 10:23	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/18/17 12:01	12/20/17 10:23	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/18/17 12:01	12/20/17 10:23	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/18/17 12:01	12/20/17 10:23	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/18/17 12:01	12/20/17 10:23	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/18/17 12:01	12/20/17 10:23	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/18/17 12:01	12/20/17 10:23	1
Phenanthrene	ND		0.20	0.062	ug/L		12/18/17 12:01	12/20/17 10:23	1
Phenol	ND		1.0	0.60	ug/L		12/18/17 12:01	12/20/17 10:23	1
Pyrene	ND		0.20	0.042	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/18/17 12:01	12/20/17 10:23	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/18/17 12:01	12/20/17 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	116		38 - 120	12/18/17 12:01	12/20/17 10:23	1
2-Fluorophenol (Surr)	40		10 - 120	12/18/17 12:01	12/20/17 10:23	1
2,4,6-Tribromophenol (Surr)	77		28 - 120	12/18/17 12:01	12/20/17 10:23	1
Nitrobenzene-d5 (Surr)	72		32 - 120	12/18/17 12:01	12/20/17 10:23	1
Phenol-d5 (Surr)	25		10 - 120	12/18/17 12:01	12/20/17 10:23	1
Terphenyl-d14 (Surr)	89		23 - 127	12/18/17 12:01	12/20/17 10:23	1

Lab Sample ID: LCS 240-308155/20-A

Matrix: Water

Analysis Batch: 308444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	15.1		ug/L		76	54 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308155/20-A

Matrix: Water

Analysis Batch: 308444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	20.0	13.5		ug/L		68	53 - 120
Acetophenone	20.0	14.6		ug/L		73	56 - 120
Anthracene	20.0	15.0		ug/L		75	56 - 120
Atrazine	40.0	35.4		ug/L		88	61 - 127
Benzaldehyde	40.0	29.6		ug/L		74	47 - 134
Benzo[a]anthracene	20.0	14.2		ug/L		71	54 - 120
Benzo[b]fluoranthene	20.0	13.1		ug/L		65	53 - 120
Benzo[k]fluoranthene	20.0	14.3		ug/L		72	55 - 120
Benzo[g,h,i]perylene	20.0	14.0		ug/L		70	55 - 120
Benzo[a]pyrene	20.0	13.0		ug/L		65	54 - 120
Butyl benzyl phthalate	20.0	13.5		ug/L		68	51 - 120
1,1'-Biphenyl	20.0	21.4		ug/L		107	53 - 120
Bis(2-chloroethoxy)methane	20.0	14.2		ug/L		71	56 - 120
Bis(2-chloroethyl)ether	20.0	12.3		ug/L		61	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	11.6		ug/L		58	50 - 120
4-Bromophenyl phenyl ether	20.0	14.9		ug/L		75	54 - 120
Caprolactam	40.0	3.43	J *	ug/L		9	10 - 120
Carbazole	20.0	16.7		ug/L		84	62 - 120
4-Chloroaniline	20.0	1.41	J *	ug/L		7	10 - 120
4-Chloro-3-methylphenol	20.0	12.6		ug/L		63	54 - 120
2-Chloronaphthalene	20.0	20.3		ug/L		101	53 - 120
2-Chlorophenol	20.0	13.0		ug/L		65	53 - 120
4-Chlorophenyl phenyl ether	20.0	18.6		ug/L		93	56 - 120
Chrysene	20.0	14.7		ug/L		73	56 - 120
2-Methylnaphthalene	20.0	14.1		ug/L		71	54 - 120
3 & 4 Methylphenol	20.0	11.1		ug/L		55	40 - 120
Dibenz(a,h)anthracene	20.0	12.9		ug/L		64	52 - 120
Dibenzofuran	20.0	18.2		ug/L		91	55 - 120
3,3'-Dichlorobenzidine	40.0	31.4		ug/L		79	57 - 120
2,4-Dichlorophenol	20.0	12.9		ug/L		65	55 - 120
Diethyl phthalate	20.0	19.2		ug/L		96	42 - 132
2,4-Dimethylphenol	20.0	13.8		ug/L		69	52 - 120
Dimethyl phthalate	20.0	18.8		ug/L		94	56 - 120
4,6-Dinitro-2-methylphenol	40.0	21.5		ug/L		54	36 - 120
2,4-Dinitrophenol	40.0	10.7		ug/L		27	12 - 120
2,4-Dinitrotoluene	20.0	18.9		ug/L		95	60 - 120
Di-n-butyl phthalate	20.0	16.1		ug/L		81	61 - 120
Di-n-octyl phthalate	20.0	11.3	*	ug/L		57	58 - 120
Fluoranthene	20.0	13.8		ug/L		69	58 - 120
Fluorene	20.0	19.0		ug/L		95	56 - 120
Hexachlorobenzene	20.0	14.0		ug/L		70	51 - 120
Hexachlorobutadiene	20.0	12.1		ug/L		61	44 - 120
Hexachlorocyclopentadiene	20.0	15.2		ug/L		76	19 - 120
Hexachloroethane	20.0	12.5		ug/L		62	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	12.4		ug/L		62	54 - 120
Isophorone	20.0	14.5		ug/L		72	55 - 120
2-Methylphenol	20.0	11.9		ug/L		59	46 - 120
Naphthalene	20.0	12.9		ug/L		64	53 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308155/20-A

Matrix: Water

Analysis Batch: 308444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	20.0	19.3		ug/L		97	51 - 120
3-Nitroaniline	20.0	12.8		ug/L		64	53 - 120
4-Nitroaniline	20.0	17.7		ug/L		89	55 - 120
Nitrobenzene	20.0	13.9		ug/L		69	55 - 120
2-Nitrophenol	20.0	13.1		ug/L		66	54 - 120
4-Nitrophenol	40.0	14.6		ug/L		36	10 - 120
N-Nitrosodiphenylamine	20.0	15.4		ug/L		77	55 - 120
N-Nitrosodi-n-propylamine	20.0	14.9		ug/L		75	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	14.1		ug/L		71	45 - 120
Pentachlorophenol	40.0	21.7		ug/L		54	30 - 120
Phenanthrene	20.0	14.7		ug/L		73	55 - 120
Phenol	20.0	5.28		ug/L		26	10 - 120
Pyrene	20.0	16.0		ug/L		80	57 - 120
2,4,5-Trichlorophenol	20.0	16.5		ug/L		83	54 - 120
2,4,6-Trichlorophenol	20.0	15.6		ug/L		78	54 - 120
2,6-Dinitrotoluene	20.0	19.4		ug/L		97	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	114		38 - 120
2-Fluorophenol (Surr)	37		10 - 120
2,4,6-Tribromophenol (Surr)	97		28 - 120
Nitrobenzene-d5 (Surr)	74		32 - 120
Phenol-d5 (Surr)	28		10 - 120
Terphenyl-d14 (Surr)	83		23 - 127

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/20/17 07:00	12/22/17 14:07	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/20/17 07:00	12/22/17 14:07	1
Acetophenone	ND		1.0	0.34	ug/L		12/20/17 07:00	12/22/17 14:07	1
Anthracene	ND		0.20	0.088	ug/L		12/20/17 07:00	12/22/17 14:07	1
Atrazine	ND		2.0	0.34	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/20/17 07:00	12/22/17 14:07	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/20/17 07:00	12/22/17 14:07	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 14:07	1
Caprolactam	ND		5.0	0.20	ug/L		12/20/17 07:00	12/22/17 14:07	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		1.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/20/17 07:00	12/22/17 14:07	1
Chrysene	ND		0.20	0.050	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/20/17 07:00	12/22/17 14:07	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/20/17 07:00	12/22/17 14:07	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/20/17 07:00	12/22/17 14:07	1
Diethyl phthalate	0.666	J	2.0	0.60	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/20/17 07:00	12/22/17 14:07	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/20/17 07:00	12/22/17 14:07	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/20/17 07:00	12/22/17 14:07	1
Fluoranthene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Fluorene	ND		0.20	0.041	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/20/17 07:00	12/22/17 14:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/20/17 07:00	12/22/17 14:07	1
Isophorone	ND		1.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/20/17 07:00	12/22/17 14:07	1
Naphthalene	ND		0.20	0.063	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 14:07	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/20/17 07:00	12/22/17 14:07	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/20/17 07:00	12/22/17 14:07	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
Phenanthrene	ND		0.20	0.062	ug/L		12/20/17 07:00	12/22/17 14:07	1
Phenol	ND		1.0	0.60	ug/L		12/20/17 07:00	12/22/17 14:07	1
Pyrene	ND		0.20	0.042	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/20/17 07:00	12/22/17 14:07	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		38 - 120	12/20/17 07:00	12/22/17 14:07	1
2-Fluorophenol (Surr)	42		10 - 120	12/20/17 07:00	12/22/17 14:07	1
2,4,6-Tribromophenol (Surr)	73		28 - 120	12/20/17 07:00	12/22/17 14:07	1
Nitrobenzene-d5 (Surr)	68		32 - 120	12/20/17 07:00	12/22/17 14:07	1
Phenol-d5 (Surr)	26		10 - 120	12/20/17 07:00	12/22/17 14:07	1
Terphenyl-d14 (Surr)	88		23 - 127	12/20/17 07:00	12/22/17 14:07	1

Lab Sample ID: LCS 240-308397/20-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	15.3		ug/L		76	54 - 120
Acenaphthylene	20.0	14.4		ug/L		72	53 - 120
Acetophenone	20.0	14.8		ug/L		74	56 - 120
Anthracene	20.0	15.6		ug/L		78	56 - 120
Atrazine	40.0	34.8		ug/L		87	61 - 127
Benzaldehyde	40.0	32.6		ug/L		81	47 - 134
Benzo[a]anthracene	20.0	14.5		ug/L		73	54 - 120
Benzo[b]fluoranthene	20.0	15.1		ug/L		76	53 - 120
Benzo[k]fluoranthene	20.0	14.3		ug/L		71	55 - 120
Benzo[g,h,i]perylene	20.0	13.6		ug/L		68	55 - 120
Benzo[a]pyrene	20.0	14.0		ug/L		70	54 - 120
Butyl benzyl phthalate	20.0	15.6		ug/L		78	51 - 120
1,1'-Biphenyl	20.0	14.9		ug/L		74	53 - 120
Bis(2-chloroethoxy)methane	20.0	15.0		ug/L		75	56 - 120
Bis(2-chloroethyl)ether	20.0	14.4		ug/L		72	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	13.3		ug/L		67	50 - 120
4-Bromophenyl phenyl ether	20.0	16.4		ug/L		82	54 - 120
Caprolactam	40.0	4.01	J	ug/L		10	10 - 120
Carbazole	20.0	16.8		ug/L		84	62 - 120
4-Chloroaniline	20.0	4.02		ug/L		20	10 - 120
4-Chloro-3-methylphenol	20.0	14.7		ug/L		74	54 - 120
2-Chloronaphthalene	20.0	14.6		ug/L		73	53 - 120
2-Chlorophenol	20.0	13.7		ug/L		69	53 - 120
4-Chlorophenyl phenyl ether	20.0	15.8		ug/L		79	56 - 120
Chrysene	20.0	15.2		ug/L		76	56 - 120
2-Methylnaphthalene	20.0	13.6		ug/L		68	54 - 120
3 & 4 Methylphenol	20.0	11.7		ug/L		58	40 - 120
Dibenz(a,h)anthracene	20.0	14.1		ug/L		71	52 - 120
Dibenzofuran	20.0	15.5		ug/L		77	55 - 120
3,3'-Dichlorobenzidine	40.0	32.6		ug/L		82	57 - 120
2,4-Dichlorophenol	20.0	14.3		ug/L		71	55 - 120
Diethyl phthalate	20.0	17.3		ug/L		86	42 - 132
2,4-Dimethylphenol	20.0	14.4		ug/L		72	52 - 120
Dimethyl phthalate	20.0	16.2		ug/L		81	56 - 120
4,6-Dinitro-2-methylphenol	40.0	27.9		ug/L		70	36 - 120
2,4-Dinitrophenol	40.0	26.2		ug/L		66	12 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308397/20-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	20.0	16.6		ug/L		83	60 - 120
Di-n-butyl phthalate	20.0	15.6		ug/L		78	61 - 120
Di-n-octyl phthalate	20.0	11.6		ug/L		58	58 - 120
Fluoranthene	20.0	16.4		ug/L		82	58 - 120
Fluorene	20.0	15.8		ug/L		79	56 - 120
Hexachlorobenzene	20.0	14.9		ug/L		74	51 - 120
Hexachlorobutadiene	20.0	11.6		ug/L		58	44 - 120
Hexachlorocyclopentadiene	20.0	10.9		ug/L		54	19 - 120
Hexachloroethane	20.0	10.8		ug/L		54	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	13.6		ug/L		68	54 - 120
Isophorone	20.0	14.7		ug/L		73	55 - 120
2-Methylphenol	20.0	12.8		ug/L		64	46 - 120
Naphthalene	20.0	14.0		ug/L		70	53 - 120
2-Nitroaniline	20.0	16.3		ug/L		81	51 - 120
3-Nitroaniline	20.0	15.3		ug/L		76	53 - 120
4-Nitroaniline	20.0	16.1		ug/L		80	55 - 120
Nitrobenzene	20.0	15.0		ug/L		75	55 - 120
2-Nitrophenol	20.0	14.6		ug/L		73	54 - 120
4-Nitrophenol	40.0	14.4		ug/L		36	10 - 120
N-Nitrosodiphenylamine	20.0	15.8		ug/L		79	55 - 120
N-Nitrosodi-n-propylamine	20.0	14.8		ug/L		74	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	14.5		ug/L		72	45 - 120
Pentachlorophenol	40.0	32.5		ug/L		81	30 - 120
Phenanthrene	20.0	15.7		ug/L		78	55 - 120
Phenol	20.0	6.16		ug/L		31	10 - 120
Pyrene	20.0	16.2		ug/L		81	57 - 120
2,4,5-Trichlorophenol	20.0	16.1		ug/L		80	54 - 120
2,4,6-Trichlorophenol	20.0	15.3		ug/L		77	54 - 120
2,6-Dinitrotoluene	20.0	16.6		ug/L		83	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		38 - 120
2-Fluorophenol (Surr)	50		10 - 120
2,4,6-Tribromophenol (Surr)	85		28 - 120
Nitrobenzene-d5 (Surr)	76		32 - 120
Phenol-d5 (Surr)	32		10 - 120
Terphenyl-d14 (Surr)	81		23 - 127

Lab Sample ID: MB 240-308715/9-A

Matrix: Water

Analysis Batch: 309033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		5.0	0.20	ug/L		12/21/17 12:56	12/26/17 08:17	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/21/17 12:56	12/26/17 08:17	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/21/17 12:56	12/26/17 08:17	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308715/9-A

Matrix: Water

Analysis Batch: 309033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308715

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	100		38 - 120	12/21/17 12:56	12/26/17 08:17	1
2-Fluorophenol (Surr)	36		10 - 120	12/21/17 12:56	12/26/17 08:17	1
2,4,6-Tribromophenol (Surr)	77		28 - 120	12/21/17 12:56	12/26/17 08:17	1
Nitrobenzene-d5 (Surr)	66		32 - 120	12/21/17 12:56	12/26/17 08:17	1
Phenol-d5 (Surr)	22		10 - 120	12/21/17 12:56	12/26/17 08:17	1
Terphenyl-d14 (Surr)	102		23 - 127	12/21/17 12:56	12/26/17 08:17	1

Lab Sample ID: LCS 240-308715/10-A

Matrix: Water

Analysis Batch: 309033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	40.0	2.76	J *	ug/L		7	10 - 120
4-Chloroaniline	20.0	3.27		ug/L		16	10 - 120
Di-n-octyl phthalate	20.0	12.3		ug/L		62	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	92		38 - 120
2-Fluorophenol (Surr)	30		10 - 120
2,4,6-Tribromophenol (Surr)	93		28 - 120
Nitrobenzene-d5 (Surr)	65		32 - 120
Phenol-d5 (Surr)	20		10 - 120
Terphenyl-d14 (Surr)	91		23 - 127

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-308106/4

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 10:55	1

Lab Sample ID: LCS 240-308106/5

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	788		ug/L		98	80 - 120

Lab Sample ID: LCSD 240-308106/28

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	686		ug/L		86	80 - 120	14	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Lab Sample ID: 240-89451-A-7 MS

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	ND		800	665		ug/L		83	80 - 120

Lab Sample ID: 240-89451-A-7 MSD

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		800	746		ug/L		93	80 - 120	12	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-308129/9-A

Matrix: Water

Analysis Batch: 308355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/18/17 10:13	12/19/17 15:45	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/18/17 10:13	12/19/17 15:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0 X		10 - 120	12/18/17 10:13	12/19/17 15:45	1
Tetrachloro-m-xylene	0 X		21 - 120	12/18/17 10:13	12/19/17 15:45	1

Lab Sample ID: LCS 240-308129/10-A

Matrix: Water

Analysis Batch: 308355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.48		ug/L		59	32 - 120
Aroclor-1260	2.50	1.72		ug/L		69	36 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	0.1 X		10 - 120
Tetrachloro-m-xylene	0 X		21 - 120

Lab Sample ID: MB 240-308318/15-A

Matrix: Water

Analysis Batch: 308545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/19/17 10:30	12/20/17 21:22	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-308318/15-A

Matrix: Water

Analysis Batch: 308545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1242	ND		0.20	0.060	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/19/17 10:30	12/20/17 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		10 - 120	12/19/17 10:30	12/20/17 21:22	1
Tetrachloro-m-xylene	60		21 - 120	12/19/17 10:30	12/20/17 21:22	1

Lab Sample ID: LCS 240-308318/16-A

Matrix: Water

Analysis Batch: 308545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.70		ug/L		68	32 - 120
Aroclor-1260	2.50	2.43		ug/L		97	36 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	88		10 - 120
Tetrachloro-m-xylene	63		21 - 120

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-308133/19-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0276	J	0.10	0.020	mg/L		12/18/17 10:23	12/19/17 18:43	1

Lab Sample ID: LCS 240-308133/20-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.445		mg/L		89	75 - 115

Lab Sample ID: LCSD 240-308133/21-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.489		mg/L		98	75 - 115	10	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: 240-89451-AJ-7-A MSD

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.331	F1	mg/L		59	60 - 130	3	25

Lab Sample ID: 240-89451-AP-7-A MS

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.320	F1	mg/L		57	60 - 130		

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-307891/1-A

Matrix: Water

Analysis Batch: 308163

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 307891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	2.4	ug/L		12/15/17 14:00	12/18/17 21:51	1
Aluminum	ND		200	40	ug/L		12/15/17 14:00	12/18/17 21:51	1
Cadmium	ND		5.0	0.29	ug/L		12/15/17 14:00	12/18/17 21:51	1
Chromium	ND		10	0.55	ug/L		12/15/17 14:00	12/18/17 21:51	1
Silver	ND		10	0.92	ug/L		12/15/17 14:00	12/18/17 21:51	1
Arsenic	ND		10	3.3	ug/L		12/15/17 14:00	12/18/17 21:51	1
Beryllium	ND		5.0	0.21	ug/L		12/15/17 14:00	12/18/17 21:51	1
Lead	ND		3.0	1.9	ug/L		12/15/17 14:00	12/18/17 21:51	1
Calcium	ND		5000	710	ug/L		12/15/17 14:00	12/18/17 21:51	1
Cobalt	ND		7.0	0.84	ug/L		12/15/17 14:00	12/18/17 21:51	1
Copper	ND		25	3.9	ug/L		12/15/17 14:00	12/18/17 21:51	1
Iron	ND		100	25	ug/L		12/15/17 14:00	12/18/17 21:51	1
Potassium	159	J	5000	70	ug/L		12/15/17 14:00	12/18/17 21:51	1
Magnesium	ND		5000	230	ug/L		12/15/17 14:00	12/18/17 21:51	1
Manganese	ND		15	5.1	ug/L		12/15/17 14:00	12/18/17 21:51	1
Sodium	471	J	5000	330	ug/L		12/15/17 14:00	12/18/17 21:51	1
Nickel	ND		40	1.6	ug/L		12/15/17 14:00	12/18/17 21:51	1
Antimony	ND		10	3.1	ug/L		12/15/17 14:00	12/18/17 21:51	1
Vanadium	ND		10	4.4	ug/L		12/15/17 14:00	12/18/17 21:51	1
Zinc	ND		50	16	ug/L		12/15/17 14:00	12/18/17 21:51	1

Lab Sample ID: LCS 240-307891/2-A

Matrix: Water

Analysis Batch: 308163

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 307891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	1970		ug/L		98	80 - 120
Aluminum	2000	1960		ug/L		98	80 - 120
Cadmium	50.0	51.8		ug/L		104	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Silver	50.0	52.3		ug/L		105	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-307891/2-A

Matrix: Water

Analysis Batch: 308163

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 307891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	2100		ug/L		105	80 - 120
Beryllium	50.0	51.6		ug/L		103	80 - 120
Lead	500	495		ug/L		99	80 - 120
Calcium	50000	50000		ug/L		100	80 - 120
Cobalt	500	493		ug/L		99	80 - 120
Copper	250	257		ug/L		103	80 - 120
Iron	1000	999		ug/L		100	80 - 120
Potassium	50000	49300		ug/L		99	80 - 120
Magnesium	50000	50800		ug/L		102	80 - 120
Manganese	500	531		ug/L		106	80 - 120
Sodium	50000	49900		ug/L		100	80 - 120
Nickel	500	503		ug/L		101	80 - 120
Antimony	500	527		ug/L		105	80 - 120
Vanadium	500	498		ug/L		100	80 - 120
Zinc	500	514		ug/L		103	80 - 120

Lab Sample ID: 240-89410-5 MS

Matrix: Water

Analysis Batch: 308163

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	95	J	2000	2070		ug/L		99	75 - 125
Aluminum	ND		2000	1970		ug/L		98	75 - 125
Cadmium	ND		50.0	52.5		ug/L		105	75 - 125
Chromium	ND		200	199		ug/L		100	75 - 125
Silver	ND		50.0	53.2		ug/L		106	75 - 125
Arsenic	ND		2000	2130		ug/L		107	75 - 125
Beryllium	ND		50.0	51.8		ug/L		104	75 - 125
Lead	ND		500	489		ug/L		98	75 - 125
Calcium	120000		50000	168000		ug/L		93	75 - 125
Cobalt	ND		500	502		ug/L		100	75 - 125
Copper	ND		250	262		ug/L		105	75 - 125
Iron	4800		1000	5710	4	ug/L		86	75 - 125
Potassium	2600	J B	50000	52500		ug/L		100	75 - 125
Magnesium	45000		50000	94100		ug/L		98	75 - 125
Manganese	120		500	652		ug/L		106	75 - 125
Sodium	22000	B	50000	72600		ug/L		102	75 - 125
Nickel	ND		500	509		ug/L		102	75 - 125
Antimony	ND		500	540		ug/L		108	75 - 125
Vanadium	ND		500	498		ug/L		100	75 - 125
Zinc	ND		500	526		ug/L		105	75 - 125

Lab Sample ID: 240-89410-5 MSD

Matrix: Water

Analysis Batch: 308163

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Barium	95	J	2000	2120		ug/L		101	75 - 125	2	20
Aluminum	ND		2000	1990		ug/L		99	75 - 125	1	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89410-5 MSD

Matrix: Water

Analysis Batch: 308163

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		50.0	53.5		ug/L		107	75 - 125	2	20
Chromium	ND		200	201		ug/L		101	75 - 125	1	20
Silver	ND		50.0	54.3		ug/L		109	75 - 125	2	20
Arsenic	ND		2000	2180		ug/L		109	75 - 125	2	20
Beryllium	ND		50.0	53.3		ug/L		107	75 - 125	3	20
Lead	ND		500	499		ug/L		100	75 - 125	2	20
Calcium	120000		50000	171000		ug/L		99	75 - 125	2	20
Cobalt	ND		500	513		ug/L		103	75 - 125	2	20
Copper	ND		250	266		ug/L		106	75 - 125	2	20
Iron	4800		1000	5810	4	ug/L		96	75 - 125	2	20
Potassium	2600	J B	50000	53400		ug/L		102	75 - 125	2	20
Magnesium	45000		50000	95800		ug/L		101	75 - 125	2	20
Manganese	120		500	664		ug/L		108	75 - 125	2	20
Sodium	22000	B	50000	74100		ug/L		105	75 - 125	2	20
Nickel	ND		500	520		ug/L		104	75 - 125	2	20
Antimony	ND		500	551		ug/L		110	75 - 125	2	20
Vanadium	ND		500	511		ug/L		102	75 - 125	3	20
Zinc	ND		500	531		ug/L		106	75 - 125	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-307891/1-A

Matrix: Water

Analysis Batch: 308279

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 307891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/15/17 14:00	12/18/17 16:23	1
Thallium	ND		1.0	0.20	ug/L		12/15/17 14:00	12/18/17 16:23	1

Lab Sample ID: LCS 240-307891/3-A

Matrix: Water

Analysis Batch: 308279

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 307891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	978		ug/L		98	80 - 120
Thallium	250	249		ug/L		99	80 - 120

Lab Sample ID: 240-89410-5 MS

Matrix: Water

Analysis Batch: 308279

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	933		ug/L		93	75 - 125
Thallium	ND		250	243		ug/L		97	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-89410-5 MSD

Matrix: Water

Analysis Batch: 308279

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	952		ug/L		95	75 - 125	2	20
Thallium	ND		250	247		ug/L		99	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-307893/1-A

Matrix: Water

Analysis Batch: 308284

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 307893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/15/17 14:00	12/18/17 17:02	1

Lab Sample ID: LCS 240-307893/2-A

Matrix: Water

Analysis Batch: 308284

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 307893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.89		ug/L		98	80 - 120

Lab Sample ID: 240-89410-5 MS

Matrix: Water

Analysis Batch: 308284

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.986		ug/L		99	80 - 120

Lab Sample ID: 240-89410-5 MSD

Matrix: Water

Analysis Batch: 308284

Client Sample ID: AMW-10(20171212)

Prep Type: Dissolved

Prep Batch: 307893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.887		ug/L		89	80 - 120	10	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-308089/1-A

Matrix: Water

Analysis Batch: 308158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00230	J	0.010	0.0020	mg/L		12/18/17 07:36	12/18/17 10:45	1

Lab Sample ID: LCS 240-308089/2-A

Matrix: Water

Analysis Batch: 308158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.569		mg/L		95	59 - 129

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-89377-L-5-B MS

Matrix: Water

Analysis Batch: 308158

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 308089

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.034	B	0.0400	0.0692		mg/L		88	22 - 135

Lab Sample ID: 240-89377-L-5-C MSD

Matrix: Water

Analysis Batch: 308158

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 308089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.034	B	0.0400	0.0701		mg/L		90	22 - 135	1	40

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

GC/MS VOA

Analysis Batch: 308677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	8260B	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	8260B	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	8260B	
MB 240-308677/6	Method Blank	Total/NA	Water	8260B	
LCS 240-308677/4	Lab Control Sample	Total/NA	Water	8260B	
240-89410-1 MS	AMW-22(20171213)	Total/NA	Water	8260B	
240-89410-1 MSD	AMW-22(20171213)	Total/NA	Water	8260B	

Analysis Batch: 308855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	8260B	
240-89410-3	AMW-03(20171212)	Total/NA	Water	8260B	
240-89410-5	AMW-10(20171212)	Total/NA	Water	8260B	
MB 240-308855/6	Method Blank	Total/NA	Water	8260B	
LCS 240-308855/4	Lab Control Sample	Total/NA	Water	8260B	
240-89282-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
240-89282-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 308155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3	AMW-03(20171212)	Total/NA	Water	3510C	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	3510C	
240-89410-5	AMW-10(20171212)	Total/NA	Water	3510C	
MB 240-308155/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308155/20-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 308397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	3510C	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	3510C	
MB 240-308397/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308397/20-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 308444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3	AMW-03(20171212)	Total/NA	Water	8270C	308155
240-89410-4	AMW-03B(20171212)	Total/NA	Water	8270C	308155
240-89410-5	AMW-10(20171212)	Total/NA	Water	8270C	308155
MB 240-308155/19-A	Method Blank	Total/NA	Water	8270C	308155
LCS 240-308155/20-A	Lab Control Sample	Total/NA	Water	8270C	308155

Prep Batch: 308715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3 - RE	AMW-03(20171212)	Total/NA	Water	3510C	
240-89410-4 - RE	AMW-03B(20171212)	Total/NA	Water	3510C	
240-89410-5 - RE	AMW-10(20171212)	Total/NA	Water	3510C	
MB 240-308715/9-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308715/10-A	Lab Control Sample	Total/NA	Water	3510C	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

GC/MS Semi VOA (Continued)

Analysis Batch: 308835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	8270C	308397
240-89410-2	AMW-22B(20171213)	Total/NA	Water	8270C	308397
MB 240-308397/19-A	Method Blank	Total/NA	Water	8270C	308397
LCS 240-308397/20-A	Lab Control Sample	Total/NA	Water	8270C	308397

Analysis Batch: 309033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3 - RE	AMW-03(20171212)	Total/NA	Water	8270C	308715
240-89410-4 - RE	AMW-03B(20171212)	Total/NA	Water	8270C	308715
240-89410-5 - RE	AMW-10(20171212)	Total/NA	Water	8270C	308715
MB 240-308715/9-A	Method Blank	Total/NA	Water	8270C	308715
LCS 240-308715/10-A	Lab Control Sample	Total/NA	Water	8270C	308715

GC VOA

Analysis Batch: 308106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	WI-GRO	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	WI-GRO	
240-89410-3	AMW-03(20171212)	Total/NA	Water	WI-GRO	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	WI-GRO	
240-89410-5	AMW-10(20171212)	Total/NA	Water	WI-GRO	
MB 240-308106/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308106/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-308106/28	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-89451-A-7 MS	Matrix Spike	Total/NA	Water	WI-GRO	
240-89451-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 308129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3	AMW-03(20171212)	Total/NA	Water	3520C	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	3520C	
240-89410-5	AMW-10(20171212)	Total/NA	Water	3520C	
MB 240-308129/9-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308129/10-A	Lab Control Sample	Total/NA	Water	3520C	

Prep Batch: 308133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	3510C	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	3510C	
240-89410-3	AMW-03(20171212)	Total/NA	Water	3510C	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	3510C	
240-89410-5	AMW-10(20171212)	Total/NA	Water	3510C	
MB 240-308133/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89451-AJ-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
240-89451-AP-7-A MS	Matrix Spike	Total/NA	Water	3510C	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

GC Semi VOA (Continued)

Prep Batch: 308318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	3520C	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	3520C	
MB 240-308318/15-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308318/16-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 308355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-3	AMW-03(20171212)	Total/NA	Water	8082	308129
240-89410-4	AMW-03B(20171212)	Total/NA	Water	8082	308129
240-89410-5	AMW-10(20171212)	Total/NA	Water	8082	308129
MB 240-308129/9-A	Method Blank	Total/NA	Water	8082	308129
LCS 240-308129/10-A	Lab Control Sample	Total/NA	Water	8082	308129

Analysis Batch: 308394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	WI-DRO	308133
240-89410-2	AMW-22B(20171213)	Total/NA	Water	WI-DRO	308133
240-89410-3	AMW-03(20171212)	Total/NA	Water	WI-DRO	308133
240-89410-4	AMW-03B(20171212)	Total/NA	Water	WI-DRO	308133
240-89410-5	AMW-10(20171212)	Total/NA	Water	WI-DRO	308133
MB 240-308133/19-A	Method Blank	Total/NA	Water	WI-DRO	308133
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	WI-DRO	308133
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308133
240-89451-AJ-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	WI-DRO	308133
240-89451-AP-7-A MS	Matrix Spike	Total/NA	Water	WI-DRO	308133

Analysis Batch: 308545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	8082	308318
240-89410-2	AMW-22B(20171213)	Total/NA	Water	8082	308318
MB 240-308318/15-A	Method Blank	Total/NA	Water	8082	308318
LCS 240-308318/16-A	Lab Control Sample	Total/NA	Water	8082	308318

Metals

Prep Batch: 307891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Dissolved	Water	3005A	
240-89410-2	AMW-22B(20171213)	Dissolved	Water	3005A	
240-89410-3	AMW-03(20171212)	Dissolved	Water	3005A	
240-89410-4	AMW-03B(20171212)	Dissolved	Water	3005A	
240-89410-5	AMW-10(20171212)	Dissolved	Water	3005A	
MB 240-307891/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-307891/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-307891/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	3005A	
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	3005A	
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	3005A	
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	3005A	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Metals (Continued)

Prep Batch: 307893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Dissolved	Water	7470A	
240-89410-2	AMW-22B(20171213)	Dissolved	Water	7470A	
240-89410-3	AMW-03(20171212)	Dissolved	Water	7470A	
240-89410-4	AMW-03B(20171212)	Dissolved	Water	7470A	
240-89410-5	AMW-10(20171212)	Dissolved	Water	7470A	
MB 240-307893/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-307893/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	7470A	
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	7470A	

Analysis Batch: 308163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Dissolved	Water	6010B	307891
240-89410-2	AMW-22B(20171213)	Dissolved	Water	6010B	307891
240-89410-3	AMW-03(20171212)	Dissolved	Water	6010B	307891
240-89410-4	AMW-03B(20171212)	Dissolved	Water	6010B	307891
240-89410-5	AMW-10(20171212)	Dissolved	Water	6010B	307891
MB 240-307891/1-A	Method Blank	Total Recoverable	Water	6010B	307891
LCS 240-307891/2-A	Lab Control Sample	Total Recoverable	Water	6010B	307891
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	6010B	307891
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	6010B	307891

Analysis Batch: 308279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Dissolved	Water	6020A	307891
240-89410-2	AMW-22B(20171213)	Dissolved	Water	6020A	307891
240-89410-3	AMW-03(20171212)	Dissolved	Water	6020A	307891
240-89410-4	AMW-03B(20171212)	Dissolved	Water	6020A	307891
240-89410-5	AMW-10(20171212)	Dissolved	Water	6020A	307891
MB 240-307891/1-A	Method Blank	Total Recoverable	Water	6020A	307891
LCS 240-307891/3-A	Lab Control Sample	Total Recoverable	Water	6020A	307891
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	6020A	307891
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	6020A	307891

Analysis Batch: 308284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Dissolved	Water	7470A	307893
240-89410-2	AMW-22B(20171213)	Dissolved	Water	7470A	307893
240-89410-3	AMW-03(20171212)	Dissolved	Water	7470A	307893
240-89410-4	AMW-03B(20171212)	Dissolved	Water	7470A	307893
240-89410-5	AMW-10(20171212)	Dissolved	Water	7470A	307893
MB 240-307893/1-A	Method Blank	Total/NA	Water	7470A	307893
LCS 240-307893/2-A	Lab Control Sample	Total/NA	Water	7470A	307893
240-89410-5 MS	AMW-10(20171212)	Dissolved	Water	7470A	307893
240-89410-5 MSD	AMW-10(20171212)	Dissolved	Water	7470A	307893

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

General Chemistry

Prep Batch: 308089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	9012A	
240-89410-2	AMW-22B(20171213)	Total/NA	Water	9012A	
240-89410-3	AMW-03(20171212)	Total/NA	Water	9012A	
240-89410-4	AMW-03B(20171212)	Total/NA	Water	9012A	
240-89410-5	AMW-10(20171212)	Total/NA	Water	9012A	
MB 240-308089/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-308089/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89377-L-5-B MS	Matrix Spike	Total/NA	Water	9012A	
240-89377-L-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 308158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89410-1	AMW-22(20171213)	Total/NA	Water	9012A	308089
240-89410-2	AMW-22B(20171213)	Total/NA	Water	9012A	308089
240-89410-3	AMW-03(20171212)	Total/NA	Water	9012A	308089
240-89410-4	AMW-03B(20171212)	Total/NA	Water	9012A	308089
240-89410-5	AMW-10(20171212)	Total/NA	Water	9012A	308089
MB 240-308089/1-A	Method Blank	Total/NA	Water	9012A	308089
LCS 240-308089/2-A	Lab Control Sample	Total/NA	Water	9012A	308089
240-89377-L-5-B MS	Matrix Spike	Total/NA	Water	9012A	308089
240-89377-L-5-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	308089

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-22(20171213)

Date Collected: 12/13/17 10:04

Date Received: 12/14/17 10:10

Lab Sample ID: 240-89410-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	308677	12/21/17 14:01	LEE	TAL CAN
Total/NA	Analysis	8260B		1	308855	12/22/17 20:16	LEE	TAL CAN
Total/NA	Prep	3510C			308397	12/20/17 07:00	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 15:44	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 12:15	RTR	TAL CAN
Total/NA	Prep	3520C			308318	12/19/17 10:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	308545	12/20/17 19:44	KMG	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 01:55	DEB	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308163	12/18/17 23:19	AS1	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308279	12/18/17 17:45	RKT	TAL CAN
Dissolved	Prep	7470A			307893	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308284	12/18/17 17:33	DSH	TAL CAN
Total/NA	Prep	9012A			308089	12/18/17 07:36	LKG	TAL CAN
Total/NA	Analysis	9012A		1	308158	12/18/17 11:33	LKG	TAL CAN

Client Sample ID: AMW-22B(20171213)

Date Collected: 12/13/17 11:45

Date Received: 12/14/17 10:10

Lab Sample ID: 240-89410-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	308677	12/21/17 14:23	LEE	TAL CAN
Total/NA	Prep	3510C			308397	12/20/17 07:00	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 16:07	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 12:55	RTR	TAL CAN
Total/NA	Prep	3520C			308318	12/19/17 10:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	308545	12/20/17 19:24	KMG	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 02:23	DEB	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308163	12/18/17 23:24	AS1	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308279	12/18/17 17:49	RKT	TAL CAN
Dissolved	Prep	7470A			307893	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308284	12/18/17 17:35	DSH	TAL CAN
Total/NA	Prep	9012A			308089	12/18/17 07:36	LKG	TAL CAN
Total/NA	Analysis	9012A		1	308158	12/18/17 11:35	LKG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-03(20171212)

Lab Sample ID: 240-89410-3

Date Collected: 12/12/17 14:00

Matrix: Water

Date Received: 12/14/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	308855	12/22/17 15:22	LEE	TAL CAN
Total/NA	Prep	3510C			308155	12/18/17 12:01	BMB	TAL CAN
Total/NA	Analysis	8270C		1	308444	12/20/17 11:43	MRU	TAL CAN
Total/NA	Prep	3510C	RE		308715	12/21/17 12:56	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309033	12/26/17 10:03	MRU	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 13:35	RTR	TAL CAN
Total/NA	Prep	3520C			308129	12/18/17 10:13	WKD	TAL CAN
Total/NA	Analysis	8082		1	308355	12/19/17 18:06	CSC	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 02:50	DEB	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308163	12/18/17 23:29	AS1	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308279	12/18/17 18:03	RKT	TAL CAN
Dissolved	Prep	7470A			307893	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308284	12/18/17 17:37	DSH	TAL CAN
Total/NA	Prep	9012A			308089	12/18/17 07:36	LKG	TAL CAN
Total/NA	Analysis	9012A		1	308158	12/18/17 11:25	LKG	TAL CAN

Client Sample ID: AMW-03B(20171212)

Lab Sample ID: 240-89410-4

Date Collected: 12/12/17 11:10

Matrix: Water

Date Received: 12/14/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	308677	12/21/17 15:09	LEE	TAL CAN
Total/NA	Prep	3510C			308155	12/18/17 12:01	BMB	TAL CAN
Total/NA	Analysis	8270C		1	308444	12/20/17 12:10	MRU	TAL CAN
Total/NA	Prep	3510C	RE		308715	12/21/17 12:56	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309033	12/26/17 10:29	MRU	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 14:15	RTR	TAL CAN
Total/NA	Prep	3520C			308129	12/18/17 10:13	WKD	TAL CAN
Total/NA	Analysis	8082		1	308355	12/19/17 18:24	CSC	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 03:16	DEB	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308163	12/18/17 23:33	AS1	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308279	12/18/17 18:07	RKT	TAL CAN
Dissolved	Prep	7470A			307893	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308284	12/18/17 17:39	DSH	TAL CAN
Total/NA	Prep	9012A			308089	12/18/17 07:36	LKG	TAL CAN
Total/NA	Analysis	9012A		1	308158	12/18/17 11:30	LKG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Client Sample ID: AMW-10(20171212)

Lab Sample ID: 240-89410-5

Date Collected: 12/12/17 15:40

Matrix: Water

Date Received: 12/14/17 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	308855	12/22/17 15:44	LEE	TAL CAN
Total/NA	Prep	3510C			308155	12/18/17 12:01	BMB	TAL CAN
Total/NA	Analysis	8270C		1	308444	12/20/17 12:37	MRU	TAL CAN
Total/NA	Prep	3510C	RE		308715	12/21/17 12:56	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309033	12/26/17 10:56	MRU	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 14:55	RTR	TAL CAN
Total/NA	Prep	3520C			308129	12/18/17 10:13	WKD	TAL CAN
Total/NA	Analysis	8082		1	308355	12/19/17 18:42	CSC	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/20/17 03:44	DEB	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308163	12/18/17 23:38	AS1	TAL CAN
Dissolved	Prep	3005A			307891	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308279	12/18/17 18:12	RKT	TAL CAN
Dissolved	Prep	7470A			307893	12/15/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308284	12/18/17 17:41	DSH	TAL CAN
Total/NA	Prep	9012A			308089	12/18/17 07:36	LKG	TAL CAN
Total/NA	Analysis	9012A		1	308158	12/18/17 11:32	LKG	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89410-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Login # : 89410

TestAmerica Canton Sample Receipt Form/Narrative

Canton Facility

Client Arcadis Site Name _____

Cooler Received on 12/14/17 Opened on 12/14/17

FedEx: 1st Grd ☒ Exp ☐ UPS ☐ FAS ☐ Clipper ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____

Cooler unpacked by:

Derry Burns

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

TestAmerica Cooler # _____ Foam Box ☐ Client Cooler ☐ Box ☐ Other multiple

Packing material used: Bubble Wrap Foam ☐ Plastic Bag ☐ None ☐ Other _____

COOLANT: Wet Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐ ☒ See Multiple Cooler Form

- Cooler temperature upon receipt
IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each Yes ☒ No ☐
 -Were the seals on the outside of the cooler(s) signed & dated? Yes ☒ No ☐ NA ☐
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes ☒ No ☐ NA ☐
 -Were tamper/custody seals intact and uncompromised? Yes ☒ No ☐ NA ☐
- Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐ NA ☐
- Did custody papers accompany the sample(s)? Yes ☒ No ☐ NA ☐
- Were the custody papers relinquished & signed in the appropriate place? Yes ☒ No ☐ NA ☐
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes ☒ No ☐ NA ☐
- Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐ NA ☐
- Could all bottle labels be reconciled with the COC? Yes ☒ No ☐ NA ☐
- Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐ NA ☐
- Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐ NA ☐
- Are these work share samples?
 If yes, Questions 12-16 have been checked at the originating laboratory.
- Were all preserved sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐ pH Strip Lot# HC730269
- Were VOAs on the COC? Yes ☒ No ☐ NA ☐
- Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes ☒ No ☐ NA ☐
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes ☒ No ☐ NA ☐
- Was a LL Hg or Me Hg trip blank present? Yes ☒ No ☐ NA ☐

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

COC = AMW-03, Labels = Amw-3A date + times match.
will log per COC.

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
AMW-22(20171213)	240-89410-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-22(20171213)	240-89410-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-22(20171213)	240-89410-M-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-22(20171213)	240-89410-N-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-22B(20171213)	240-89410-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-22B(20171213)	240-89410-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-22B(20171213)	240-89410-M-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-22B(20171213)	240-89410-N-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-03(20171212)	240-89410-G-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-03(20171212)	240-89410-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-03(20171212)	240-89410-M-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-03(20171212)	240-89410-N-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-03B(20171212)	240-89410-G-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-03B(20171212)	240-89410-H-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-03B(20171212)	240-89410-M-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-03B(20171212)	240-89410-N-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-10(20171212)	240-89410-G-5	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-10(20171212)	240-89410-H-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-10(20171212)	240-89410-M-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-10(20171212)	240-89410-N-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-89451-1

Client Project/Site: Ford TCAP - E200572

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

12/29/2017 4:59:12 PM

Patrick O'Meara, Manager of Project Management

(330)966-5725

patrick.omeara@testamericainc.com

Designee for

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

LINKS

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Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

TestAmerica Canton

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Job ID: 240-89451-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-89451-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/15/2017 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.5° C, 0.5° C, 0.7° C, 0.9° C, 1.1° C, 1.3° C, 1.7° C, 1.9° C, 2.1° C and 2.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7), AMW-23 (20171214) (240-89451-8), TRIP BLANK AMW-19 (240-89451-9), TRIP BLANK DUP-01 (240-89451-10), TRIP BLANK AMW-25 (240-89451-11), TRIP BLANK AMW-20 (240-89451-12), TRIP BLANK DUP-02 (240-89451-13), TRIP BLANK AMW-24 (240-89451-14), TRIP BLANK AMW-23B (240-89451-15), TRIP BLANK AMW-23B MS (240-89451-16), TRIP BLANK AMW-23B MSD (240-89451-17) and TRIP BLANK AMW-23 (240-89451-18) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/26/2017, 12/27/2017 and 12/28/2017.

Methylene Chloride was detected in method blank MB 240-309234/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Bromomethane exceeded the RPD limit for the MSD of sample AMW-23B (20171214) (240-89451-7) in batch 240-309234.

1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane and Trichloroethene failed the recovery criteria high for the MSD of sample 240-89452-40 in batch 240-309421. Several analytes exceeded the RPD limit.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Job ID: 240-89451-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

p-Isopropyltoluene failed the recovery criteria low for the MS of sample 240-89452-32 in batch 240-309056.

Sample AMW-25 (20171214) (240-89451-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/20/2017, 12/21/2017 and 12/26/2017 and analyzed on 12/22/2017, 12/26/2017 and 12/28/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Surrogate recovery for the following samples were outside control limits: AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5) and AMW-23B (20171214) (240-89451-7). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Both sets of data will be reported.

Diethyl phthalate was detected in method blank MB 240-308397/19-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Diethyl phthalate was detected in method blank MB 240-308680/16-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Caprolactam failed the recovery criteria low for the MS/MSD of sample AMW-23B (20171214) (240-89451-7) in batch 240-308835.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-308397.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN DRO

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/18/2017 and analyzed on 12/19/2017 and 12/20/2017.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-308133/19-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

WI Diesel Range Organics (C10-C28) failed the recovery criteria low for the MS/MSD of sample AMW-23B (20171214) (240-89451-7) in batch 240-308394.

Sample AMW-25 (20171214) (240-89451-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-308318.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

WISCONSIN GRO

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Job ID: 240-89451-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7), AMW-23 (20171214) (240-89451-8) and TRIP BLANK WI GRO (240-89451-19) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 12/18/2017 and 12/19/2017.

Sample AMW-25 (20171214) (240-89451-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 12/19/2017 and 12/21/2017 and analyzed on 12/20/2017 and 12/22/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Internal standard (ISTD) response for the following samples exceeded the control limit on the confirmation Column: AMW-25 (20171214) (240-89451-3), AMW-23B (20171214) (240-89451-7), AMW-23B (20171214) (240-89451-7[MS]) and AMW-23B (20171214) (240-89451-7[MSD]). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: AMW-25 (20171214) (240-89451-3). Reagents: 3394463, 3154249, and 3361889.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICP)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/18/2017 and analyzed on 12/19/2017.

Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8). The continuing calibration blanks and method blanks may not support the lower PQL.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/18/2017 and analyzed on 12/20/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/18/2017 and analyzed on 12/19/2017.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Job ID: 240-89451-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples AMW-19 (20171213) (240-89451-1), DUP-01 (20171213) (240-89451-2), AMW-25 (20171214) (240-89451-3), AMW-20 (20171214) (240-89451-4), DUP-02 (20171214) (240-89451-5), AMW-24 (20171214) (240-89451-6), AMW-23B (20171214) (240-89451-7) and AMW-23 (20171214) (240-89451-8) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 12/19/2017.

The following sample was diluted due to the nature of the sample matrix: AMW-25 (20171214) (240-89451-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-89451-1	AMW-19 (20171213)	Water	12/13/17 16:50	12/15/17 09:50
240-89451-2	DUP-01 (20171213)	Water	12/13/17 16:50	12/15/17 09:50
240-89451-3	AMW-25 (20171214)	Water	12/14/17 13:30	12/15/17 09:50
240-89451-4	AMW-20 (20171214)	Water	12/14/17 09:57	12/15/17 09:50
240-89451-5	DUP-02 (20171214)	Water	12/14/17 09:57	12/15/17 09:50
240-89451-6	AMW-24 (20171214)	Water	12/14/17 12:37	12/15/17 09:50
240-89451-7	AMW-23B (20171214)	Water	12/14/17 12:23	12/15/17 09:50
240-89451-8	AMW-23 (20171214)	Water	12/14/17 10:10	12/15/17 09:50
240-89451-9	TRIP BLANK AMW-19	Water	12/13/17 00:00	12/15/17 09:50
240-89451-10	TRIP BLANK DUP-01	Water	12/13/17 00:00	12/15/17 09:50
240-89451-11	TRIP BLANK AMW-25	Water	12/14/17 00:00	12/15/17 09:50
240-89451-12	TRIP BLANK AMW-20	Water	12/14/17 00:00	12/15/17 09:50
240-89451-13	TRIP BLANK DUP-02	Water	12/14/17 00:00	12/15/17 09:50
240-89451-14	TRIP BLANK AMW-24	Water	12/14/17 00:00	12/15/17 09:50
240-89451-15	TRIP BLANK AMW-23B	Water	12/14/17 00:00	12/15/17 09:50
240-89451-16	TRIP BLANK AMW-23B MS	Water	12/14/17 00:00	12/15/17 09:50
240-89451-17	TRIP BLANK AMW-23B MSD	Water	12/14/17 00:00	12/15/17 09:50
240-89451-18	TRIP BLANK AMW-23	Water	12/14/17 00:00	12/15/17 09:50
240-89451-19	TRIP BLANK WI GRO	Water	12/13/17 00:00	12/15/17 09:50

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.9	J	10	1.8	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.082	J B	0.10	0.020	mg/L	1			WI-DRO	Total/NA
Barium	140	J	200	1.3	ug/L	1			6010B	Dissolved
Calcium	140000		5000	310	ug/L	1			6010B	Dissolved
Potassium	3000	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	40000		5000	780	ug/L	1			6010B	Dissolved
Manganese	85		15	2.1	ug/L	1			6010B	Dissolved
Sodium	34000		5000	560	ug/L	1			6010B	Dissolved
Selenium	1.2	J	5.0	0.89	ug/L	1			6020A	Dissolved
Cyanide, Total	0.0020	J	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.7	J	10	1.8	ug/L	1			8260B	Total/NA
Diethyl phthalate	0.65	J B	2.0	0.59	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	0.077	J B	0.097	0.019	mg/L	1			WI-DRO	Total/NA
Barium	140	J	200	1.3	ug/L	1			6010B	Dissolved
Calcium	140000		5000	310	ug/L	1			6010B	Dissolved
Potassium	3000	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	40000		5000	780	ug/L	1			6010B	Dissolved
Manganese	100		15	2.1	ug/L	1			6010B	Dissolved
Sodium	34000		5000	560	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0029	J	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	70		5.0	1.2	ug/L	5			8260B	Total/NA
Ethylbenzene	79		5.0	1.3	ug/L	5			8260B	Total/NA
m-Xylene & p-Xylene	49		10	1.2	ug/L	5			8260B	Total/NA
n-Butylbenzene	120		5.0	1.1	ug/L	5			8260B	Total/NA
Isopropylbenzene	9.1		5.0	1.1	ug/L	5			8260B	Total/NA
N-Propylbenzene	36		5.0	2.3	ug/L	5			8260B	Total/NA
sec-Butylbenzene	12		5.0	1.4	ug/L	5			8260B	Total/NA
Benzaldehyde	3.9		1.9	0.37	ug/L	1			8270C	Total/NA
WI Gasoline Range Organics (C6-C10)	8500		1000	400	ug/L	10			WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	16	B	0.96	0.19	mg/L	10			WI-DRO	Total/NA
Barium	170	J	200	1.3	ug/L	1			6010B	Dissolved
Cadmium	0.30	J	5.0	0.20	ug/L	1			6010B	Dissolved
Calcium	180000		5000	310	ug/L	1			6010B	Dissolved
Iron	1400		100	26	ug/L	1			6010B	Dissolved
Potassium	3800	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	57000		5000	780	ug/L	1			6010B	Dissolved
Manganese	980		15	2.1	ug/L	1			6010B	Dissolved
Sodium	86000		5000	560	ug/L	1			6010B	Dissolved
Cyanide, Total	0.011	J	0.050	0.010	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214) (Continued)

Lab Sample ID: 240-89451-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	10	1.8	ug/L	1		8260B	Total/NA
WI Gasoline Range Organics (C6-C10)	220		100	40	ug/L	1		WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	0.072	J B	0.097	0.019	mg/L	1		WI-DRO	Total/NA
Barium	190	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	170000		5000	310	ug/L	1		6010B	Dissolved
Iron	190		100	26	ug/L	1		6010B	Dissolved
Potassium	3200	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	49000		5000	780	ug/L	1		6010B	Dissolved
Manganese	810		15	2.1	ug/L	1		6010B	Dissolved
Sodium	47000		5000	560	ug/L	1		6010B	Dissolved
Nickel	4.0	J	40	2.2	ug/L	1		6010B	Dissolved
Cyanide, Total	0.0026	J	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.78	J	0.97	0.58	ug/L	1		8270C	Total/NA
WI Gasoline Range Organics (C6-C10)	63	J	100	40	ug/L	1		WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	0.10	B	0.097	0.019	mg/L	1		WI-DRO	Total/NA
Barium	190	J	200	1.3	ug/L	1		6010B	Dissolved
Calcium	170000		5000	310	ug/L	1		6010B	Dissolved
Iron	210		100	26	ug/L	1		6010B	Dissolved
Potassium	3200	J	5000	560	ug/L	1		6010B	Dissolved
Magnesium	49000		5000	780	ug/L	1		6010B	Dissolved
Manganese	900		15	2.1	ug/L	1		6010B	Dissolved
Sodium	47000		5000	560	ug/L	1		6010B	Dissolved
Nickel	3.8	J	40	2.2	ug/L	1		6010B	Dissolved
Cyanide, Total	0.0021	J	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	10	1.8	ug/L	1		8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.068	J B	0.098	0.020	mg/L	1		WI-DRO	Total/NA
Barium	92	J	200	1.3	ug/L	1		6010B	Dissolved
Cadmium	0.23	J	5.0	0.20	ug/L	1		6010B	Dissolved
Calcium	170000		5000	310	ug/L	1		6010B	Dissolved
Cobalt	1.4	J	7.0	0.75	ug/L	1		6010B	Dissolved
Iron	1000		100	26	ug/L	1		6010B	Dissolved
Potassium	7900		5000	560	ug/L	1		6010B	Dissolved
Magnesium	44000		5000	780	ug/L	1		6010B	Dissolved
Manganese	1600		15	2.1	ug/L	1		6010B	Dissolved
Sodium	80000		5000	560	ug/L	1		6010B	Dissolved
Nickel	5.0	J	40	2.2	ug/L	1		6010B	Dissolved
Cyanide, Total	0.0030	J	0.010	0.0020	mg/L	1		9012A	Total/NA

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214) (Continued)

Lab Sample ID: 240-89451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.8	J	10	1.8	ug/L	1			8260B	Total/NA
Diethyl phthalate	0.61	J B	1.9	0.57	ug/L	1			8270C	Total/NA
Diethyl phthalate - RE	1.6	J H	1.9	0.57	ug/L	1			8270C	Total/NA
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.096	0.019	mg/L	1			WI-DRO	Total/NA
Barium	210		200	1.3	ug/L	1			6010B	Dissolved
Arsenic	5.6	J	10	4.1	ug/L	1			6010B	Dissolved
Calcium	83000		5000	310	ug/L	1			6010B	Dissolved
Iron	3500		100	26	ug/L	1			6010B	Dissolved
Potassium	2100	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	28000		5000	780	ug/L	1			6010B	Dissolved
Manganese	230		15	2.1	ug/L	1			6010B	Dissolved
Sodium	10000		5000	560	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0021	J	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.9	J	10	1.8	ug/L	1			8260B	Total/NA
WI Diesel Range Organics (C10-C28)	0.067	J B	0.095	0.019	mg/L	1			WI-DRO	Total/NA
Barium	180	J	200	1.3	ug/L	1			6010B	Dissolved
Calcium	150000		5000	310	ug/L	1			6010B	Dissolved
Cobalt	1.9	J	7.0	0.75	ug/L	1			6010B	Dissolved
Iron	690		100	26	ug/L	1			6010B	Dissolved
Potassium	3700	J	5000	560	ug/L	1			6010B	Dissolved
Magnesium	40000		5000	780	ug/L	1			6010B	Dissolved
Manganese	2500		15	2.1	ug/L	1			6010B	Dissolved
Sodium	52000		5000	560	ug/L	1			6010B	Dissolved
Nickel	2.5	J	40	2.2	ug/L	1			6010B	Dissolved
Cyanide, Total	0.0022	J	0.010	0.0020	mg/L	1			9012A	Total/NA

Client Sample ID: TRIP BLANK AMW-19

Lab Sample ID: 240-89451-9

No Detections.

Client Sample ID: TRIP BLANK DUP-01

Lab Sample ID: 240-89451-10

No Detections.

Client Sample ID: TRIP BLANK AMW-25

Lab Sample ID: 240-89451-11

No Detections.

Client Sample ID: TRIP BLANK AMW-20

Lab Sample ID: 240-89451-12

No Detections.

Client Sample ID: TRIP BLANK DUP-02

Lab Sample ID: 240-89451-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-24

Lab Sample ID: 240-89451-14

☐ No Detections.

Client Sample ID: TRIP BLANK AMW-23B

Lab Sample ID: 240-89451-15

☐ No Detections.

Client Sample ID: TRIP BLANK AMW-23B MS

Lab Sample ID: 240-89451-16

☐ No Detections.

Client Sample ID: TRIP BLANK AMW-23B MSD

Lab Sample ID: 240-89451-17

☐ No Detections.

Client Sample ID: TRIP BLANK AMW-23

Lab Sample ID: 240-89451-18

☐ No Detections.

Client Sample ID: TRIP BLANK WI GRO

Lab Sample ID: 240-89451-19

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/26/17 18:04	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/26/17 18:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/26/17 18:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/26/17 18:04	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/26/17 18:04	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/26/17 18:04	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/26/17 18:04	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/26/17 18:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/26/17 18:04	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/26/17 18:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/26/17 18:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/26/17 18:04	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/26/17 18:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/26/17 18:04	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/26/17 18:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:04	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:04	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/26/17 18:04	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/26/17 18:04	1
Allyl chloride	ND		2.0	0.38	ug/L			12/26/17 18:04	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/26/17 18:04	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/26/17 18:04	1
2-Hexanone	ND		10	1.2	ug/L			12/26/17 18:04	1
Bromobenzene	ND		1.0	0.31	ug/L			12/26/17 18:04	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/26/17 18:04	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/26/17 18:04	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/26/17 18:04	1
Acetone	2.9	J	10	1.8	ug/L			12/26/17 18:04	1
Benzene	ND		1.0	0.28	ug/L			12/26/17 18:04	1
Bromoform	ND		1.0	0.43	ug/L			12/26/17 18:04	1
Bromomethane	ND		1.0	0.42	ug/L			12/26/17 18:04	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/26/17 18:04	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/26/17 18:04	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:04	1
Chloroethane	ND		1.0	0.41	ug/L			12/26/17 18:04	1
Chloroform	ND		1.0	0.31	ug/L			12/26/17 18:04	1
Chloromethane	ND		1.0	0.43	ug/L			12/26/17 18:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/26/17 18:04	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/26/17 18:04	1
Cyclohexane	ND		1.0	0.44	ug/L			12/26/17 18:04	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/26/17 18:04	1
Dibromomethane	ND		1.0	0.46	ug/L			12/26/17 18:04	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/26/17 18:04	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:04	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/26/17 18:04	1
Ethyl ether	ND		2.0	0.35	ug/L			12/26/17 18:04	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:04	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/26/17 18:04	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/26/17 18:04	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/26/17 18:04	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:04	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:04	1
Methyl acetate	ND		10	1.4	ug/L			12/26/17 18:04	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/26/17 18:04	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/26/17 18:04	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/26/17 18:04	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/26/17 18:04	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/26/17 18:04	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/26/17 18:04	1
o-Xylene	ND		1.0	0.28	ug/L			12/26/17 18:04	1
Styrene	ND		1.0	0.23	ug/L			12/26/17 18:04	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:04	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/26/17 18:04	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/26/17 18:04	1
Toluene	ND		1.0	0.23	ug/L			12/26/17 18:04	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/26/17 18:04	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/26/17 18:04	1
Trichloroethene	ND		1.0	0.33	ug/L			12/26/17 18:04	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:04	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/26/17 18:04	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/26/17 18:04	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/26/17 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		12/26/17 18:04	1
4-Bromofluorobenzene (Surr)	75		69 - 120		12/26/17 18:04	1
Toluene-d8 (Surr)	104		73 - 120		12/26/17 18:04	1
Dibromofluoromethane (Surr)	110		69 - 124		12/26/17 18:04	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:31	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/20/17 07:00	12/22/17 16:31	1
Acetophenone	ND		0.95	0.32	ug/L		12/20/17 07:00	12/22/17 16:31	1
Anthracene	ND		0.19	0.084	ug/L		12/20/17 07:00	12/22/17 16:31	1
Atrazine	ND		1.9	0.32	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/20/17 07:00	12/22/17 16:31	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/20/17 07:00	12/22/17 16:31	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/20/17 07:00	12/22/17 16:31	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/20/17 07:00	12/22/17 16:31	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 16:31	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 16:31	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 16:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/20/17 07:00	12/22/17 16:31	1
Carbazole	ND		0.95	0.27	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/20/17 07:00	12/22/17 16:31	1
Chrysene	ND		0.19	0.048	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/20/17 07:00	12/22/17 16:31	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/20/17 07:00	12/22/17 16:31	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:31	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/20/17 07:00	12/22/17 16:31	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/20/17 07:00	12/22/17 16:31	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/20/17 07:00	12/22/17 16:31	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/20/17 07:00	12/22/17 16:31	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/20/17 07:00	12/22/17 16:31	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 16:31	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/20/17 07:00	12/22/17 16:31	1
Fluoranthene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 16:31	1
Fluorene	ND		0.19	0.039	ug/L		12/20/17 07:00	12/22/17 16:31	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/20/17 07:00	12/22/17 16:31	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 16:31	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/20/17 07:00	12/22/17 16:31	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/20/17 07:00	12/22/17 16:31	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/20/17 07:00	12/22/17 16:31	1
Isophorone	ND		0.95	0.26	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/20/17 07:00	12/22/17 16:31	1
Naphthalene	ND		0.19	0.060	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:31	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 16:31	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/20/17 07:00	12/22/17 16:31	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 16:31	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/20/17 07:00	12/22/17 16:31	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/20/17 07:00	12/22/17 16:31	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/20/17 07:00	12/22/17 16:31	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/20/17 07:00	12/22/17 16:31	1
Phenanthrene	ND		0.19	0.059	ug/L		12/20/17 07:00	12/22/17 16:31	1
Phenol	ND		0.95	0.57	ug/L		12/20/17 07:00	12/22/17 16:31	1
Pyrene	ND		0.19	0.040	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/20/17 07:00	12/22/17 16:31	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/20/17 07:00	12/22/17 16:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		38 - 120	12/20/17 07:00	12/22/17 16:31	1
2-Fluorophenol (Surr)	35		10 - 120	12/20/17 07:00	12/22/17 16:31	1
2,4,6-Tribromophenol (Surr)	65		28 - 120	12/20/17 07:00	12/22/17 16:31	1
Nitrobenzene-d5 (Surr)	60		32 - 120	12/20/17 07:00	12/22/17 16:31	1
Phenol-d5 (Surr)	22		10 - 120	12/20/17 07:00	12/22/17 16:31	1
Terphenyl-d14 (Surr)	83		23 - 127	12/20/17 07:00	12/22/17 16:31	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/18/17 16:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1221	ND		0.19	0.086	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1232	ND		0.19	0.067	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1242	ND		0.19	0.057	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1248	ND		0.19	0.048	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1254	ND		0.19	0.029	ug/L	-	12/19/17 10:30	12/20/17 20:43	1
Aroclor-1260	ND		0.19	0.038	ug/L	-	12/19/17 10:30	12/20/17 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		10 - 120	12/19/17 10:30	12/20/17 20:43	1
Tetrachloro-m-xylene	65		22 - 120	12/19/17 10:30	12/20/17 20:43	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.082	J B	0.10	0.020	mg/L	-	12/18/17 10:23	12/19/17 19:37	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	140	J	200	1.3	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Calcium	140000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Cobalt	ND		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Copper	ND		25	3.5	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Iron	ND		100	26	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Potassium	3000	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Magnesium	40000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Manganese	85		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Sodium	34000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Nickel	ND		40	2.2	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 17:20	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 17:20	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Lab Sample ID: 240-89451-1

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:20	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.2	J	5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 11:52	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 11:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0020	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 13:56	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/26/17 18:27	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/26/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/26/17 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/26/17 18:27	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/26/17 18:27	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/26/17 18:27	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/26/17 18:27	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/26/17 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/26/17 18:27	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/26/17 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/26/17 18:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/26/17 18:27	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/26/17 18:27	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/26/17 18:27	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/26/17 18:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:27	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:27	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/26/17 18:27	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/26/17 18:27	1
Allyl chloride	ND		2.0	0.38	ug/L			12/26/17 18:27	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/26/17 18:27	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/26/17 18:27	1
2-Hexanone	ND		10	1.2	ug/L			12/26/17 18:27	1
Bromobenzene	ND		1.0	0.31	ug/L			12/26/17 18:27	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/26/17 18:27	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/26/17 18:27	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/26/17 18:27	1
Acetone	3.7	J	10	1.8	ug/L			12/26/17 18:27	1
Benzene	ND		1.0	0.28	ug/L			12/26/17 18:27	1
Bromoform	ND		1.0	0.43	ug/L			12/26/17 18:27	1
Bromomethane	ND		1.0	0.42	ug/L			12/26/17 18:27	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/26/17 18:27	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/26/17 18:27	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:27	1
Chloroethane	ND		1.0	0.41	ug/L			12/26/17 18:27	1
Chloroform	ND		1.0	0.31	ug/L			12/26/17 18:27	1
Chloromethane	ND		1.0	0.43	ug/L			12/26/17 18:27	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/26/17 18:27	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/26/17 18:27	1
Cyclohexane	ND		1.0	0.44	ug/L			12/26/17 18:27	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/26/17 18:27	1
Dibromomethane	ND		1.0	0.46	ug/L			12/26/17 18:27	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/26/17 18:27	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:27	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/26/17 18:27	1
Ethyl ether	ND		2.0	0.35	ug/L			12/26/17 18:27	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:27	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/26/17 18:27	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/26/17 18:27	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/26/17 18:27	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:27	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:27	1
Methyl acetate	ND		10	1.4	ug/L			12/26/17 18:27	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/26/17 18:27	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/26/17 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/26/17 18:27	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/26/17 18:27	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/26/17 18:27	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/26/17 18:27	1
o-Xylene	ND		1.0	0.28	ug/L			12/26/17 18:27	1
Styrene	ND		1.0	0.23	ug/L			12/26/17 18:27	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:27	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/26/17 18:27	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/26/17 18:27	1
Toluene	ND		1.0	0.23	ug/L			12/26/17 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/26/17 18:27	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/26/17 18:27	1
Trichloroethene	ND		1.0	0.33	ug/L			12/26/17 18:27	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:27	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/26/17 18:27	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/26/17 18:27	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/26/17 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 138		12/26/17 18:27	1
4-Bromofluorobenzene (Surr)	75		69 - 120		12/26/17 18:27	1
Toluene-d8 (Surr)	102		73 - 120		12/26/17 18:27	1
Dibromofluoromethane (Surr)	106		69 - 124		12/26/17 18:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.043	ug/L		12/20/17 07:00	12/22/17 16:56	1
Acenaphthylene	ND		0.20	0.047	ug/L		12/20/17 07:00	12/22/17 16:56	1
Acetophenone	ND		0.98	0.33	ug/L		12/20/17 07:00	12/22/17 16:56	1
Anthracene	ND		0.20	0.086	ug/L		12/20/17 07:00	12/22/17 16:56	1
Atrazine	ND		2.0	0.33	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzaldehyde	ND		2.0	0.38	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzo[a]anthracene	ND		0.20	0.029	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzo[k]fluoranthene	ND		0.20	0.044	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzo[g,h,i]perylene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 16:56	1
Benzo[a]pyrene	ND		0.20	0.050	ug/L		12/20/17 07:00	12/22/17 16:56	1
Butyl benzyl phthalate	ND		2.0	0.25	ug/L		12/20/17 07:00	12/22/17 16:56	1
1,1'-Biphenyl	ND		0.98	0.13	ug/L		12/20/17 07:00	12/22/17 16:56	1
Bis(2-chloroethoxy)methane	ND		0.98	0.31	ug/L		12/20/17 07:00	12/22/17 16:56	1
Bis(2-chloroethyl)ether	ND		0.98	0.098	ug/L		12/20/17 07:00	12/22/17 16:56	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.7	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 16:56	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.9	0.20	ug/L		12/20/17 07:00	12/22/17 16:56	1
Carbazole	ND		0.98	0.27	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Chloronaphthalene	ND		0.98	0.098	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Chlorophenol	ND		0.98	0.28	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Chlorophenyl phenyl ether	ND		2.0	0.29	ug/L		12/20/17 07:00	12/22/17 16:56	1
Chrysene	ND		0.20	0.049	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Methylnaphthalene	ND		0.20	0.089	ug/L		12/20/17 07:00	12/22/17 16:56	1
3 & 4 Methylphenol	ND		2.0	0.78	ug/L		12/20/17 07:00	12/22/17 16:56	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		12/20/17 07:00	12/22/17 16:56	1
Dibenzofuran	ND		0.98	0.020	ug/L		12/20/17 07:00	12/22/17 16:56	1
3,3'-Dichlorobenzidine	ND		4.9	0.36	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/20/17 07:00	12/22/17 16:56	1
Diethyl phthalate	0.65	J B	2.0	0.59	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/20/17 07:00	12/22/17 16:56	1
Dimethyl phthalate	ND		2.0	0.28	ug/L		12/20/17 07:00	12/22/17 16:56	1
4,6-Dinitro-2-methylphenol	ND		4.9	2.4	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4-Dinitrophenol	ND		4.9	0.31	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4-Dinitrotoluene	ND		4.9	0.25	ug/L		12/20/17 07:00	12/22/17 16:56	1
Di-n-butyl phthalate	ND		4.9	1.7	ug/L		12/20/17 07:00	12/22/17 16:56	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/20/17 07:00	12/22/17 16:56	1
Fluoranthene	ND		0.20	0.044	ug/L		12/20/17 07:00	12/22/17 16:56	1
Fluorene	ND		0.20	0.040	ug/L		12/20/17 07:00	12/22/17 16:56	1
Hexachlorobenzene	ND		0.20	0.084	ug/L		12/20/17 07:00	12/22/17 16:56	1
Hexachlorobutadiene	ND		0.98	0.26	ug/L		12/20/17 07:00	12/22/17 16:56	1
Hexachlorocyclopentadiene	ND		9.8	0.24	ug/L		12/20/17 07:00	12/22/17 16:56	1
Hexachloroethane	ND		0.98	0.19	ug/L		12/20/17 07:00	12/22/17 16:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.042	ug/L		12/20/17 07:00	12/22/17 16:56	1
Isophorone	ND		0.98	0.26	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Methylphenol	ND		0.98	0.17	ug/L		12/20/17 07:00	12/22/17 16:56	1
Naphthalene	ND		0.20	0.061	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 16:56	1
3-Nitroaniline	ND		2.0	0.27	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 16:56	1
Nitrobenzene	ND		0.98	0.039	ug/L		12/20/17 07:00	12/22/17 16:56	1
2-Nitrophenol	ND		2.0	0.27	ug/L		12/20/17 07:00	12/22/17 16:56	1
4-Nitrophenol	ND		4.9	0.28	ug/L		12/20/17 07:00	12/22/17 16:56	1
N-Nitrosodiphenylamine	ND		0.98	0.30	ug/L		12/20/17 07:00	12/22/17 16:56	1
N-Nitrosodi-n-propylamine	ND		0.98	0.24	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,2'-oxybis[1-chloropropane]	ND		0.98	0.39	ug/L		12/20/17 07:00	12/22/17 16:56	1
Pentachlorophenol	ND		4.9	0.26	ug/L		12/20/17 07:00	12/22/17 16:56	1
Phenanthrene	ND		0.20	0.061	ug/L		12/20/17 07:00	12/22/17 16:56	1
Phenol	ND		0.98	0.59	ug/L		12/20/17 07:00	12/22/17 16:56	1
Pyrene	ND		0.20	0.041	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4,5-Trichlorophenol	ND		4.9	0.29	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,4,6-Trichlorophenol	ND		4.9	0.24	ug/L		12/20/17 07:00	12/22/17 16:56	1
2,6-Dinitrotoluene	ND		4.9	0.78	ug/L		12/20/17 07:00	12/22/17 16:56	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		38 - 120	12/20/17 07:00	12/22/17 16:56	1
2-Fluorophenol (Surr)	34		10 - 120	12/20/17 07:00	12/22/17 16:56	1
2,4,6-Tribromophenol (Surr)	56		28 - 120	12/20/17 07:00	12/22/17 16:56	1
Nitrobenzene-d5 (Surr)	55		32 - 120	12/20/17 07:00	12/22/17 16:56	1
Phenol-d5 (Surr)	22		10 - 120	12/20/17 07:00	12/22/17 16:56	1
Terphenyl-d14 (Surr)	87		23 - 127	12/20/17 07:00	12/22/17 16:56	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 16:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1221	ND		0.19	0.087	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1242	ND		0.19	0.058	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/19/17 10:30	12/20/17 21:02	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/19/17 10:30	12/20/17 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		10 - 120	12/19/17 10:30	12/20/17 21:02	1
Tetrachloro-m-xylene	67		22 - 120	12/19/17 10:30	12/20/17 21:02	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.077	J B	0.097	0.019	mg/L		12/18/17 10:23	12/19/17 20:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	140	J	200	1.3	ug/L		12/18/17 14:00	12/19/17 17:25	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 17:25	1
Cadmium	ND		5.0	0.20	ug/L		12/18/17 14:00	12/19/17 17:25	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 17:25	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 17:25	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 17:25	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 17:25	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 17:25	1
Calcium	140000		5000	310	ug/L		12/18/17 14:00	12/19/17 17:25	1
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 17:25	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 17:25	1
Iron	ND		100	26	ug/L		12/18/17 14:00	12/19/17 17:25	1
Potassium	3000	J	5000	560	ug/L		12/18/17 14:00	12/19/17 17:25	1
Magnesium	40000		5000	780	ug/L		12/18/17 14:00	12/19/17 17:25	1
Manganese	100		15	2.1	ug/L		12/18/17 14:00	12/19/17 17:25	1
Sodium	34000		5000	560	ug/L		12/18/17 14:00	12/19/17 17:25	1
Nickel	ND		40	2.2	ug/L		12/18/17 14:00	12/19/17 17:25	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 17:25	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 17:25	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-01 (20171213)

Lab Sample ID: 240-89451-2

Date Collected: 12/13/17 16:50

Matrix: Water

Date Received: 12/15/17 09:50

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:25	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 11:57	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 11:57	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0029	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 13:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	2.3	ug/L			12/27/17 12:55	5
1,1,1-Trichloroethane	ND		5.0	1.2	ug/L			12/27/17 12:55	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.6	ug/L			12/27/17 12:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/L			12/27/17 12:55	5
1,1,2-Trichloroethane	ND		5.0	1.7	ug/L			12/27/17 12:55	5
1,1-Dichloroethane	ND		5.0	1.3	ug/L			12/27/17 12:55	5
1,1-Dichloroethene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
1,1-Dichloropropene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
1,2,3-Trichlorobenzene	ND		5.0	1.8	ug/L			12/27/17 12:55	5
1,2,3-Trichloropropane	ND		5.0	2.7	ug/L			12/27/17 12:55	5
1,2,4-Trichlorobenzene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
1,2,4-Trimethylbenzene	70		5.0	1.2	ug/L			12/27/17 12:55	5
1,2-Dibromo-3-Chloropropane	ND		10	2.4	ug/L			12/27/17 12:55	5
1,2-Dichlorobenzene	ND		5.0	1.3	ug/L			12/27/17 12:55	5
1,2-Dichloroethane	ND		5.0	1.5	ug/L			12/27/17 12:55	5
1,2-Dichloropropane	ND		5.0	1.5	ug/L			12/27/17 12:55	5
1,3,5-Trimethylbenzene	ND		5.0	1.2	ug/L			12/27/17 12:55	5
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			12/27/17 12:55	5
1,3-Dichloropropane	ND		5.0	1.5	ug/L			12/27/17 12:55	5
1,4-Dichlorobenzene	ND		5.0	1.2	ug/L			12/27/17 12:55	5
Allyl chloride	ND		10	1.9	ug/L			12/27/17 12:55	5
2,2-Dichloropropane	ND		5.0	1.7	ug/L			12/27/17 12:55	5
2-Chlorotoluene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
2-Hexanone	ND		50	6.2	ug/L			12/27/17 12:55	5
Bromobenzene	ND		5.0	1.6	ug/L			12/27/17 12:55	5
Bromochloromethane	ND		5.0	2.4	ug/L			12/27/17 12:55	5
4-Chlorotoluene	ND		5.0	1.2	ug/L			12/27/17 12:55	5
p-Isopropyltoluene	ND		5.0	1.5	ug/L			12/27/17 12:55	5
Acetone	ND		50	8.8	ug/L			12/27/17 12:55	5
Benzene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
Bromoform	ND		5.0	2.2	ug/L			12/27/17 12:55	5
Bromomethane	ND		5.0	2.1	ug/L			12/27/17 12:55	5
Carbon disulfide	ND		5.0	1.7	ug/L			12/27/17 12:55	5
Carbon tetrachloride	ND		5.0	1.8	ug/L			12/27/17 12:55	5
Chlorobenzene	ND		5.0	1.6	ug/L			12/27/17 12:55	5
Chloroethane	ND		5.0	2.1	ug/L			12/27/17 12:55	5
Chloroform	ND		5.0	1.6	ug/L			12/27/17 12:55	5
Chloromethane	ND		5.0	2.2	ug/L			12/27/17 12:55	5
cis-1,2-Dichloroethene	ND		5.0	1.5	ug/L			12/27/17 12:55	5
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/L			12/27/17 12:55	5
Cyclohexane	ND		5.0	2.2	ug/L			12/27/17 12:55	5
Hexachlorobutadiene	ND		5.0	1.8	ug/L			12/27/17 12:55	5
Dibromomethane	ND		5.0	2.3	ug/L			12/27/17 12:55	5
Bromodichloromethane	ND		5.0	1.5	ug/L			12/27/17 12:55	5
Dichlorodifluoromethane	ND		5.0	2.5	ug/L			12/27/17 12:55	5
Dichlorofluoromethane	ND		10	2.2	ug/L			12/27/17 12:55	5
Ethyl ether	ND		10	1.8	ug/L			12/27/17 12:55	5
Ethylbenzene	79		5.0	1.3	ug/L			12/27/17 12:55	5
1,2-Dibromoethane	ND		5.0	1.2	ug/L			12/27/17 12:55	5

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	1.3	ug/L			12/27/17 12:55	5
m-Xylene & p-Xylene	49		10	1.2	ug/L			12/27/17 12:55	5
n-Butylbenzene	120		5.0	1.1	ug/L			12/27/17 12:55	5
Isopropylbenzene	9.1		5.0	1.1	ug/L			12/27/17 12:55	5
Methyl acetate	ND		50	7.2	ug/L			12/27/17 12:55	5
N-Propylbenzene	36		5.0	2.3	ug/L			12/27/17 12:55	5
2-Butanone (MEK)	ND		50	5.1	ug/L			12/27/17 12:55	5
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			12/27/17 12:55	5
sec-Butylbenzene	12		5.0	1.4	ug/L			12/27/17 12:55	5
Methyl tert butyl ether	ND		5.0	1.4	ug/L			12/27/17 12:55	5
Methylene Chloride	ND		5.0	2.7	ug/L			12/27/17 12:55	5
o-Xylene	ND		5.0	1.4	ug/L			12/27/17 12:55	5
Styrene	ND		5.0	1.2	ug/L			12/27/17 12:55	5
tert-Butylbenzene	ND		5.0	1.3	ug/L			12/27/17 12:55	5
Tetrachloroethene	ND		5.0	1.5	ug/L			12/27/17 12:55	5
Tetrahydrofuran	ND		25	4.2	ug/L			12/27/17 12:55	5
Toluene	ND		5.0	1.2	ug/L			12/27/17 12:55	5
trans-1,2-Dichloroethene	ND		5.0	1.5	ug/L			12/27/17 12:55	5
trans-1,3-Dichloropropene	ND		5.0	1.6	ug/L			12/27/17 12:55	5
Trichloroethene	ND		5.0	1.7	ug/L			12/27/17 12:55	5
Trichlorofluoromethane	ND		5.0	2.5	ug/L			12/27/17 12:55	5
Vinyl chloride	ND		5.0	2.3	ug/L			12/27/17 12:55	5
Methylcyclohexane	ND		5.0	2.3	ug/L			12/27/17 12:55	5
Chlorodibromomethane	ND		5.0	1.3	ug/L			12/27/17 12:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 138		12/27/17 12:55	5
4-Bromofluorobenzene (Surr)	78		69 - 120		12/27/17 12:55	5
Toluene-d8 (Surr)	100		73 - 120		12/27/17 12:55	5
Dibromofluoromethane (Surr)	101		69 - 124		12/27/17 12:55	5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 17:20	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/20/17 07:00	12/22/17 17:20	1
Acetophenone	ND		0.96	0.33	ug/L		12/20/17 07:00	12/22/17 17:20	1
Anthracene	ND		0.19	0.085	ug/L		12/20/17 07:00	12/22/17 17:20	1
Atrazine	ND		1.9	0.33	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzaldehyde	3.9		1.9	0.37	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/20/17 07:00	12/22/17 17:20	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/20/17 07:00	12/22/17 17:20	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/20/17 07:00	12/22/17 17:20	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/20/17 07:00	12/22/17 17:20	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/20/17 07:00	12/22/17 17:20	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/20/17 07:00	12/22/17 17:20	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 17:20	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/20/17 07:00	12/22/17 17:20	1
Carbazole	ND		0.96	0.27	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/20/17 07:00	12/22/17 17:20	1
Chrysene	ND		0.19	0.048	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/20/17 07:00	12/22/17 17:20	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/20/17 07:00	12/22/17 17:20	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 17:20	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/20/17 07:00	12/22/17 17:20	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/20/17 07:00	12/22/17 17:20	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/20/17 07:00	12/22/17 17:20	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/20/17 07:00	12/22/17 17:20	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/20/17 07:00	12/22/17 17:20	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/20/17 07:00	12/22/17 17:20	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/20/17 07:00	12/22/17 17:20	1
Fluoranthene	ND		0.19	0.043	ug/L		12/20/17 07:00	12/22/17 17:20	1
Fluorene	ND		0.19	0.039	ug/L		12/20/17 07:00	12/22/17 17:20	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/20/17 07:00	12/22/17 17:20	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/20/17 07:00	12/22/17 17:20	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/20/17 07:00	12/22/17 17:20	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/20/17 07:00	12/22/17 17:20	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/20/17 07:00	12/22/17 17:20	1
Isophorone	ND		0.96	0.26	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/20/17 07:00	12/22/17 17:20	1
Naphthalene	ND		0.19	0.060	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/20/17 07:00	12/22/17 17:20	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/20/17 07:00	12/22/17 17:20	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/20/17 07:00	12/22/17 17:20	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/20/17 07:00	12/22/17 17:20	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/20/17 07:00	12/22/17 17:20	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/20/17 07:00	12/22/17 17:20	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/20/17 07:00	12/22/17 17:20	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/20/17 07:00	12/22/17 17:20	1
Phenanthrene	ND		0.19	0.060	ug/L		12/20/17 07:00	12/22/17 17:20	1
Phenol	ND		0.96	0.58	ug/L		12/20/17 07:00	12/22/17 17:20	1
Pyrene	ND		0.19	0.040	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/20/17 07:00	12/22/17 17:20	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/20/17 07:00	12/22/17 17:20	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		38 - 120	12/20/17 07:00	12/22/17 17:20	1
2-Fluorophenol (Surr)	41		10 - 120	12/20/17 07:00	12/22/17 17:20	1
2,4,6-Tribromophenol (Surr)	72		28 - 120	12/20/17 07:00	12/22/17 17:20	1
Nitrobenzene-d5 (Surr)	58		32 - 120	12/20/17 07:00	12/22/17 17:20	1
Phenol-d5 (Surr)	24		10 - 120	12/20/17 07:00	12/22/17 17:20	1
Terphenyl-d14 (Surr)	79		23 - 127	12/20/17 07:00	12/22/17 17:20	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	8500		1000	400	ug/L			12/19/17 09:21	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/21/17 07:29	12/22/17 12:40	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/21/17 07:29	12/22/17 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		10 - 120	12/21/17 07:29	12/22/17 12:40	1
Tetrachloro-m-xylene	67		22 - 120	12/21/17 07:29	12/22/17 12:40	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	16	B	0.96	0.19	mg/L		12/18/17 10:23	12/20/17 16:46	10

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	170	J	200	1.3	ug/L		12/18/17 14:00	12/19/17 17:30	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 17:30	1
Cadmium	0.30	J	5.0	0.20	ug/L		12/18/17 14:00	12/19/17 17:30	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 17:30	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 17:30	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 17:30	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 17:30	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 17:30	1
Calcium	180000		5000	310	ug/L		12/18/17 14:00	12/19/17 17:30	1
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 17:30	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 17:30	1
Iron	1400		100	26	ug/L		12/18/17 14:00	12/19/17 17:30	1
Potassium	3800	J	5000	560	ug/L		12/18/17 14:00	12/19/17 17:30	1
Magnesium	57000		5000	780	ug/L		12/18/17 14:00	12/19/17 17:30	1
Manganese	980		15	2.1	ug/L		12/18/17 14:00	12/19/17 17:30	1
Sodium	86000		5000	560	ug/L		12/18/17 14:00	12/19/17 17:30	1
Nickel	ND		40	2.2	ug/L		12/18/17 14:00	12/19/17 17:30	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 17:30	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 17:30	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:30	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:01	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:01	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.011	J	0.050	0.010	mg/L	-	12/19/17 11:16	12/19/17 14:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 13:17	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 13:17	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 13:17	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 13:17	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 13:17	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 13:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 13:17	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 13:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 13:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 13:17	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 13:17	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 13:17	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 13:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 13:17	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 13:17	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 13:17	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 13:17	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 13:17	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 13:17	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 13:17	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 13:17	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 13:17	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 13:17	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 13:17	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 13:17	1
Acetone	3.4	J	10	1.8	ug/L			12/27/17 13:17	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 13:17	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 13:17	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 13:17	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 13:17	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 13:17	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 13:17	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 13:17	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 13:17	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 13:17	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 13:17	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 13:17	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 13:17	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 13:17	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 13:17	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 13:17	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 13:17	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 13:17	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 13:17	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 13:17	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 13:17	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 13:17	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 13:17	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 13:17	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 13:17	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 13:17	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 13:17	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 13:17	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 13:17	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 13:17	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 13:17	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 13:17	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 13:17	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 13:17	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 13:17	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 13:17	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 13:17	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 13:17	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 13:17	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 13:17	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 13:17	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 13:17	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 13:17	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 138		12/27/17 13:17	1
4-Bromofluorobenzene (Surr)	80		69 - 120		12/27/17 13:17	1
Toluene-d8 (Surr)	111		73 - 120		12/27/17 13:17	1
Dibromofluoromethane (Surr)	110		69 - 124		12/27/17 13:17	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.043	ug/L		12/21/17 10:30	12/22/17 20:32	1
Acenaphthylene	ND		0.20	0.047	ug/L		12/21/17 10:30	12/22/17 20:32	1
Acetophenone	ND		0.98	0.33	ug/L		12/21/17 10:30	12/22/17 20:32	1
Anthracene	ND		0.20	0.086	ug/L		12/21/17 10:30	12/22/17 20:32	1
Atrazine	ND		2.0	0.33	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzaldehyde	ND		2.0	0.38	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzo[a]anthracene	ND		0.20	0.029	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzo[k]fluoranthene	ND		0.20	0.044	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzo[g,h,i]perylene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 20:32	1
Benzo[a]pyrene	ND		0.20	0.050	ug/L		12/21/17 10:30	12/22/17 20:32	1
Butyl benzyl phthalate	ND		2.0	0.25	ug/L		12/21/17 10:30	12/22/17 20:32	1
1,1'-Biphenyl	ND		0.98	0.13	ug/L		12/21/17 10:30	12/22/17 20:32	1
Bis(2-chloroethoxy)methane	ND		0.98	0.31	ug/L		12/21/17 10:30	12/22/17 20:32	1
Bis(2-chloroethyl)ether	ND		0.98	0.098	ug/L		12/21/17 10:30	12/22/17 20:32	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.7	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 20:32	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:32	1
Carbazole	ND		0.98	0.27	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Chloronaphthalene	ND		0.98	0.098	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Chlorophenol	ND		0.98	0.28	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Chlorophenyl phenyl ether	ND		2.0	0.29	ug/L		12/21/17 10:30	12/22/17 20:32	1
Chrysene	ND		0.20	0.049	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Methylnaphthalene	ND		0.20	0.089	ug/L		12/21/17 10:30	12/22/17 20:32	1
3 & 4 Methylphenol	ND		2.0	0.78	ug/L		12/21/17 10:30	12/22/17 20:32	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		12/21/17 10:30	12/22/17 20:32	1
Dibenzofuran	ND		0.98	0.020	ug/L		12/21/17 10:30	12/22/17 20:32	1
3,3'-Dichlorobenzidine	ND		4.9	0.36	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/21/17 10:30	12/22/17 20:32	1
Diethyl phthalate	ND		2.0	0.59	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/21/17 10:30	12/22/17 20:32	1
Dimethyl phthalate	ND		2.0	0.28	ug/L		12/21/17 10:30	12/22/17 20:32	1
4,6-Dinitro-2-methylphenol	ND		4.9	2.4	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4-Dinitrophenol	ND		4.9	0.31	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4-Dinitrotoluene	ND		4.9	0.25	ug/L		12/21/17 10:30	12/22/17 20:32	1
Di-n-butyl phthalate	ND		4.9	1.7	ug/L		12/21/17 10:30	12/22/17 20:32	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/21/17 10:30	12/22/17 20:32	1
Fluoranthene	ND		0.20	0.044	ug/L		12/21/17 10:30	12/22/17 20:32	1
Fluorene	ND		0.20	0.040	ug/L		12/21/17 10:30	12/22/17 20:32	1
Hexachlorobenzene	ND		0.20	0.084	ug/L		12/21/17 10:30	12/22/17 20:32	1
Hexachlorobutadiene	ND		0.98	0.26	ug/L		12/21/17 10:30	12/22/17 20:32	1
Hexachlorocyclopentadiene	ND		9.8	0.24	ug/L		12/21/17 10:30	12/22/17 20:32	1
Hexachloroethane	ND		0.98	0.19	ug/L		12/21/17 10:30	12/22/17 20:32	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.042	ug/L		12/21/17 10:30	12/22/17 20:32	1
Isophorone	ND		0.98	0.26	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Methylphenol	ND		0.98	0.17	ug/L		12/21/17 10:30	12/22/17 20:32	1
Naphthalene	ND		0.20	0.061	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 20:32	1
3-Nitroaniline	ND		2.0	0.27	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 20:32	1
Nitrobenzene	ND		0.98	0.039	ug/L		12/21/17 10:30	12/22/17 20:32	1
2-Nitrophenol	ND		2.0	0.27	ug/L		12/21/17 10:30	12/22/17 20:32	1
4-Nitrophenol	ND		4.9	0.28	ug/L		12/21/17 10:30	12/22/17 20:32	1
N-Nitrosodiphenylamine	ND		0.98	0.30	ug/L		12/21/17 10:30	12/22/17 20:32	1
N-Nitrosodi-n-propylamine	ND		0.98	0.24	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,2'-oxybis[1-chloropropane]	ND		0.98	0.39	ug/L		12/21/17 10:30	12/22/17 20:32	1
Pentachlorophenol	ND		4.9	0.26	ug/L		12/21/17 10:30	12/22/17 20:32	1
Phenanthrene	ND		0.20	0.061	ug/L		12/21/17 10:30	12/22/17 20:32	1
Phenol	ND		0.98	0.59	ug/L		12/21/17 10:30	12/22/17 20:32	1
Pyrene	ND		0.20	0.041	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4,5-Trichlorophenol	ND		4.9	0.29	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,4,6-Trichlorophenol	ND		4.9	0.24	ug/L		12/21/17 10:30	12/22/17 20:32	1
2,6-Dinitrotoluene	ND		4.9	0.78	ug/L		12/21/17 10:30	12/22/17 20:32	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		38 - 120	12/21/17 10:30	12/22/17 20:32	1
2-Fluorophenol (Surr)	30		10 - 120	12/21/17 10:30	12/22/17 20:32	1
2,4,6-Tribromophenol (Surr)	8	X	28 - 120	12/21/17 10:30	12/22/17 20:32	1
Nitrobenzene-d5 (Surr)	52		32 - 120	12/21/17 10:30	12/22/17 20:32	1
Phenol-d5 (Surr)	19		10 - 120	12/21/17 10:30	12/22/17 20:32	1
Terphenyl-d14 (Surr)	79		23 - 127	12/21/17 10:30	12/22/17 20:32	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 16:28	1
Acenaphthylene	ND	H	0.19	0.046	ug/L		12/26/17 12:46	12/28/17 16:28	1
Acetophenone	ND	H	0.95	0.32	ug/L		12/26/17 12:46	12/28/17 16:28	1
Anthracene	ND	H	0.19	0.084	ug/L		12/26/17 12:46	12/28/17 16:28	1
Atrazine	ND	H	1.9	0.32	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzaldehyde	ND	H	1.9	0.37	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzo[a]anthracene	ND	H	0.19	0.028	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzo[b]fluoranthene	ND	H	0.19	0.038	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzo[k]fluoranthene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzo[g,h,i]perylene	ND	H	0.19	0.044	ug/L		12/26/17 12:46	12/28/17 16:28	1
Benzo[a]pyrene	ND	H	0.19	0.049	ug/L		12/26/17 12:46	12/28/17 16:28	1
Butyl benzyl phthalate	ND	H	1.9	0.25	ug/L		12/26/17 12:46	12/28/17 16:28	1
1,1'-Biphenyl	ND	H	0.95	0.12	ug/L		12/26/17 12:46	12/28/17 16:28	1
Bis(2-chloroethoxy)methane	ND	H	0.95	0.30	ug/L		12/26/17 12:46	12/28/17 16:28	1
Bis(2-chloroethyl)ether	ND	H	0.95	0.095	ug/L		12/26/17 12:46	12/28/17 16:28	1
Bis(2-ethylhexyl) phthalate	ND	H	4.8	1.6	ug/L		12/26/17 12:46	12/28/17 16:28	1
4-Bromophenyl phenyl ether	ND	H	1.9	0.21	ug/L		12/26/17 12:46	12/28/17 16:28	1
Caprolactam	ND	H	4.8	0.19	ug/L		12/26/17 12:46	12/28/17 16:28	1
Carbazole	ND	H	0.95	0.27	ug/L		12/26/17 12:46	12/28/17 16:28	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 16:28	1
4-Chloro-3-methylphenol	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 16:28	1
2-Chloronaphthalene	ND	H	0.95	0.095	ug/L		12/26/17 12:46	12/28/17 16:28	1
2-Chlorophenol	ND	H	0.95	0.28	ug/L		12/26/17 12:46	12/28/17 16:28	1
4-Chlorophenyl phenyl ether	ND	H	1.9	0.29	ug/L		12/26/17 12:46	12/28/17 16:28	1
Chrysene	ND	H	0.19	0.048	ug/L		12/26/17 12:46	12/28/17 16:28	1
2-Methylnaphthalene	ND	H	0.19	0.086	ug/L		12/26/17 12:46	12/28/17 16:28	1
3 & 4 Methylphenol	ND	H	1.9	0.76	ug/L		12/26/17 12:46	12/28/17 16:28	1
Dibenz(a,h)anthracene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 16:28	1
Dibenzofuran	ND	H	0.95	0.019	ug/L		12/26/17 12:46	12/28/17 16:28	1
3,3'-Dichlorobenzidine	ND	H	4.8	0.35	ug/L		12/26/17 12:46	12/28/17 16:28	1
2,4-Dichlorophenol	ND	H	1.9	0.18	ug/L		12/26/17 12:46	12/28/17 16:28	1
Diethyl phthalate	ND	H	1.9	0.57	ug/L		12/26/17 12:46	12/28/17 16:28	1
2,4-Dimethylphenol	ND	H	1.9	0.24	ug/L		12/26/17 12:46	12/28/17 16:28	1
Dimethyl phthalate	ND	H	1.9	0.28	ug/L		12/26/17 12:46	12/28/17 16:28	1
4,6-Dinitro-2-methylphenol	ND	H	4.8	2.3	ug/L		12/26/17 12:46	12/28/17 16:28	1
2,4-Dinitrophenol	ND	H	4.8	0.30	ug/L		12/26/17 12:46	12/28/17 16:28	1
2,4-Dinitrotoluene	ND	H	4.8	0.24	ug/L		12/26/17 12:46	12/28/17 16:28	1
Di-n-butyl phthalate	ND	H	4.8	1.6	ug/L		12/26/17 12:46	12/28/17 16:28	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/26/17 12:46	12/28/17 16:28	1
Fluoranthene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 16:28	1
Fluorene	ND	H	0.19	0.039	ug/L		12/26/17 12:46	12/28/17 16:28	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	0.19	0.081	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Hexachlorobutadiene	ND	H	0.95	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Hexachlorocyclopentadiene	ND	H	9.5	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Hexachloroethane	ND	H	0.95	0.18	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Indeno[1,2,3-cd]pyrene	ND	H	0.19	0.041	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Isophorone	ND	H	0.95	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2-Methylphenol	ND	H	0.95	0.16	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Naphthalene	ND	H	0.19	0.060	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2-Nitroaniline	ND	H	1.9	0.20	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
3-Nitroaniline	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
4-Nitroaniline	ND	H	1.9	0.21	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Nitrobenzene	ND	H	0.95	0.038	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2-Nitrophenol	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
4-Nitrophenol	ND	H	4.8	0.28	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
N-Nitrosodiphenylamine	ND	H	0.95	0.30	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
N-Nitrosodi-n-propylamine	ND	H	0.95	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2,2'-oxybis[1-chloropropane]	ND	H	0.95	0.38	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Pentachlorophenol	ND	H	4.8	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Phenanthrene	ND	H	0.19	0.059	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Phenol	ND	H	0.95	0.57	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
Pyrene	ND	H	0.19	0.040	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2,4,5-Trichlorophenol	ND	H	4.8	0.29	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2,4,6-Trichlorophenol	ND	H	4.8	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:28	1
2,6-Dinitrotoluene	ND	H	4.8	0.76	ug/L	-	12/26/17 12:46	12/28/17 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		38 - 120	12/26/17 12:46	12/28/17 16:28	1
2-Fluorophenol (Surr)	36		10 - 120	12/26/17 12:46	12/28/17 16:28	1
2,4,6-Tribromophenol (Surr)	79		28 - 120	12/26/17 12:46	12/28/17 16:28	1
Nitrobenzene-d5 (Surr)	56		32 - 120	12/26/17 12:46	12/28/17 16:28	1
Phenol-d5 (Surr)	25		10 - 120	12/26/17 12:46	12/28/17 16:28	1
Terphenyl-d14 (Surr)	98		23 - 127	12/26/17 12:46	12/28/17 16:28	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	220		100	40	ug/L	-		12/18/17 18:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.21	0.052	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1221	ND		0.21	0.093	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1232	ND		0.21	0.072	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1242	ND		0.21	0.062	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1248	ND		0.21	0.052	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1254	ND		0.21	0.031	ug/L	-	12/21/17 07:29	12/22/17 12:59	1
Aroclor-1260	ND		0.21	0.041	ug/L	-	12/21/17 07:29	12/22/17 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		10 - 120	12/21/17 07:29	12/22/17 12:59	1
Tetrachloro-m-xylene	91		22 - 120	12/21/17 07:29	12/22/17 12:59	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.072	J B	0.097	0.019	mg/L	-	12/18/17 10:23	12/19/17 20:58	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	190	J	200	1.3	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Calcium	170000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Cobalt	ND		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Copper	ND		25	3.5	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Iron	190		100	26	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Potassium	3200	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Magnesium	49000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Manganese	810		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Sodium	47000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Nickel	4.0	J	40	2.2	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 17:34	1
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:34	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:06	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0026	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 14:05	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 13:40	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 13:40	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 13:40	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 13:40	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 13:40	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 13:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 13:40	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 13:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 13:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 13:40	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 13:40	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 13:40	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 13:40	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 13:40	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 13:40	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 13:40	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 13:40	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 13:40	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 13:40	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 13:40	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 13:40	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 13:40	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 13:40	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 13:40	1
Acetone	ND		10	1.8	ug/L			12/27/17 13:40	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 13:40	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 13:40	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 13:40	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 13:40	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 13:40	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 13:40	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 13:40	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 13:40	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 13:40	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 13:40	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 13:40	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 13:40	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 13:40	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 13:40	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 13:40	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 13:40	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 13:40	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 13:40	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 13:40	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 13:40	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 13:40	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 13:40	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 13:40	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 13:40	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 13:40	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 13:40	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 13:40	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 13:40	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 13:40	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 13:40	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 13:40	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 13:40	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 13:40	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 13:40	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 13:40	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 13:40	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 13:40	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 13:40	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 13:40	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 13:40	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 13:40	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 138		12/27/17 13:40	1
4-Bromofluorobenzene (Surr)	72		69 - 120		12/27/17 13:40	1
Toluene-d8 (Surr)	97		73 - 120		12/27/17 13:40	1
Dibromofluoromethane (Surr)	99		69 - 124		12/27/17 13:40	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:56	1
Acenaphthylene	ND		0.19	0.047	ug/L		12/21/17 10:30	12/22/17 20:56	1
Acetophenone	ND		0.97	0.33	ug/L		12/21/17 10:30	12/22/17 20:56	1
Anthracene	ND		0.19	0.085	ug/L		12/21/17 10:30	12/22/17 20:56	1
Atrazine	ND		1.9	0.33	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzaldehyde	ND		1.9	0.38	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzo[a]anthracene	ND		0.19	0.029	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/21/17 10:30	12/22/17 20:56	1
Benzo[a]pyrene	ND		0.19	0.050	ug/L		12/21/17 10:30	12/22/17 20:56	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/22/17 20:56	1
1,1'-Biphenyl	ND		0.97	0.13	ug/L		12/21/17 10:30	12/22/17 20:56	1
Bis(2-chloroethoxy)methane	ND		0.97	0.31	ug/L		12/21/17 10:30	12/22/17 20:56	1
Bis(2-chloroethyl)ether	ND		0.97	0.097	ug/L		12/21/17 10:30	12/22/17 20:56	1
Bis(2-ethylhexyl) phthalate	ND		4.9	1.7	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 20:56	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.9	0.19	ug/L		12/21/17 10:30	12/22/17 20:56	1
Carbazole	ND		0.97	0.27	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Chloronaphthalene	ND		0.97	0.097	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Chlorophenol	ND		0.97	0.28	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/22/17 20:56	1
Chrysene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Methylnaphthalene	ND		0.19	0.088	ug/L		12/21/17 10:30	12/22/17 20:56	1
3 & 4 Methylphenol	ND		1.9	0.78	ug/L		12/21/17 10:30	12/22/17 20:56	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:56	1
Dibenzofuran	ND		0.97	0.019	ug/L		12/21/17 10:30	12/22/17 20:56	1
3,3'-Dichlorobenzidine	ND		4.9	0.36	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/22/17 20:56	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/22/17 20:56	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/22/17 20:56	1
4,6-Dinitro-2-methylphenol	ND		4.9	2.3	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4-Dinitrophenol	ND		4.9	0.31	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4-Dinitrotoluene	ND		4.9	0.24	ug/L		12/21/17 10:30	12/22/17 20:56	1
Di-n-butyl phthalate	ND		4.9	1.7	ug/L		12/21/17 10:30	12/22/17 20:56	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/22/17 20:56	1
Fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 20:56	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/22/17 20:56	1
Hexachlorobenzene	ND		0.19	0.083	ug/L		12/21/17 10:30	12/22/17 20:56	1
Hexachlorobutadiene	ND		0.97	0.26	ug/L		12/21/17 10:30	12/22/17 20:56	1
Hexachlorocyclopentadiene	ND		9.7	0.23	ug/L		12/21/17 10:30	12/22/17 20:56	1
Hexachloroethane	ND		0.97	0.18	ug/L		12/21/17 10:30	12/22/17 20:56	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/22/17 20:56	1
Isophorone	ND		0.97	0.26	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Methylphenol	ND		0.97	0.17	ug/L		12/21/17 10:30	12/22/17 20:56	1
Naphthalene	ND		0.19	0.061	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 20:56	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 20:56	1
Nitrobenzene	ND		0.97	0.039	ug/L		12/21/17 10:30	12/22/17 20:56	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 20:56	1
4-Nitrophenol	ND		4.9	0.28	ug/L		12/21/17 10:30	12/22/17 20:56	1
N-Nitrosodiphenylamine	ND		0.97	0.30	ug/L		12/21/17 10:30	12/22/17 20:56	1
N-Nitrosodi-n-propylamine	ND		0.97	0.23	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,2'-oxybis[1-chloropropane]	ND		0.97	0.39	ug/L		12/21/17 10:30	12/22/17 20:56	1
Pentachlorophenol	ND		4.9	0.26	ug/L		12/21/17 10:30	12/22/17 20:56	1
Phenanthrene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/22/17 20:56	1
Phenol	0.78	J	0.97	0.58	ug/L		12/21/17 10:30	12/22/17 20:56	1
Pyrene	ND		0.19	0.041	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4,5-Trichlorophenol	ND		4.9	0.29	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,4,6-Trichlorophenol	ND		4.9	0.23	ug/L		12/21/17 10:30	12/22/17 20:56	1
2,6-Dinitrotoluene	ND		4.9	0.78	ug/L		12/21/17 10:30	12/22/17 20:56	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		38 - 120	12/21/17 10:30	12/22/17 20:56	1
2-Fluorophenol (Surr)	28		10 - 120	12/21/17 10:30	12/22/17 20:56	1
2,4,6-Tribromophenol (Surr)	8	X	28 - 120	12/21/17 10:30	12/22/17 20:56	1
Nitrobenzene-d5 (Surr)	48		32 - 120	12/21/17 10:30	12/22/17 20:56	1
Phenol-d5 (Surr)	16		10 - 120	12/21/17 10:30	12/22/17 20:56	1
Terphenyl-d14 (Surr)	79		23 - 127	12/21/17 10:30	12/22/17 20:56	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 16:52	1
Acenaphthylene	ND	H	0.19	0.047	ug/L		12/26/17 12:46	12/28/17 16:52	1
Acetophenone	ND	H	0.97	0.33	ug/L		12/26/17 12:46	12/28/17 16:52	1
Anthracene	ND	H	0.19	0.085	ug/L		12/26/17 12:46	12/28/17 16:52	1
Atrazine	ND	H	1.9	0.33	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzaldehyde	ND	H	1.9	0.38	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzo[a]anthracene	ND	H	0.19	0.029	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzo[b]fluoranthene	ND	H	0.19	0.038	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzo[k]fluoranthene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzo[g,h,i]perylene	ND	H	0.19	0.045	ug/L		12/26/17 12:46	12/28/17 16:52	1
Benzo[a]pyrene	ND	H	0.19	0.050	ug/L		12/26/17 12:46	12/28/17 16:52	1
Butyl benzyl phthalate	ND	H	1.9	0.25	ug/L		12/26/17 12:46	12/28/17 16:52	1
1,1'-Biphenyl	ND	H	0.97	0.13	ug/L		12/26/17 12:46	12/28/17 16:52	1
Bis(2-chloroethoxy)methane	ND	H	0.97	0.31	ug/L		12/26/17 12:46	12/28/17 16:52	1
Bis(2-chloroethyl)ether	ND	H	0.97	0.097	ug/L		12/26/17 12:46	12/28/17 16:52	1
Bis(2-ethylhexyl) phthalate	ND	H	4.9	1.7	ug/L		12/26/17 12:46	12/28/17 16:52	1
4-Bromophenyl phenyl ether	ND	H	1.9	0.21	ug/L		12/26/17 12:46	12/28/17 16:52	1
Caprolactam	ND	H	4.9	0.19	ug/L		12/26/17 12:46	12/28/17 16:52	1
Carbazole	ND	H	0.97	0.27	ug/L		12/26/17 12:46	12/28/17 16:52	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 16:52	1
4-Chloro-3-methylphenol	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 16:52	1
2-Chloronaphthalene	ND	H	0.97	0.097	ug/L		12/26/17 12:46	12/28/17 16:52	1
2-Chlorophenol	ND	H	0.97	0.28	ug/L		12/26/17 12:46	12/28/17 16:52	1
4-Chlorophenyl phenyl ether	ND	H	1.9	0.29	ug/L		12/26/17 12:46	12/28/17 16:52	1
Chrysene	ND	H	0.19	0.049	ug/L		12/26/17 12:46	12/28/17 16:52	1
2-Methylnaphthalene	ND	H	0.19	0.088	ug/L		12/26/17 12:46	12/28/17 16:52	1
3 & 4 Methylphenol	ND	H	1.9	0.78	ug/L		12/26/17 12:46	12/28/17 16:52	1
Dibenz(a,h)anthracene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 16:52	1
Dibenzofuran	ND	H	0.97	0.019	ug/L		12/26/17 12:46	12/28/17 16:52	1
3,3'-Dichlorobenzidine	ND	H	4.9	0.36	ug/L		12/26/17 12:46	12/28/17 16:52	1
2,4-Dichlorophenol	ND	H	1.9	0.18	ug/L		12/26/17 12:46	12/28/17 16:52	1
Diethyl phthalate	ND	H	1.9	0.58	ug/L		12/26/17 12:46	12/28/17 16:52	1
2,4-Dimethylphenol	ND	H	1.9	0.24	ug/L		12/26/17 12:46	12/28/17 16:52	1
Dimethyl phthalate	ND	H	1.9	0.28	ug/L		12/26/17 12:46	12/28/17 16:52	1
4,6-Dinitro-2-methylphenol	ND	H	4.9	2.3	ug/L		12/26/17 12:46	12/28/17 16:52	1
2,4-Dinitrophenol	ND	H	4.9	0.31	ug/L		12/26/17 12:46	12/28/17 16:52	1
2,4-Dinitrotoluene	ND	H	4.9	0.24	ug/L		12/26/17 12:46	12/28/17 16:52	1
Di-n-butyl phthalate	ND	H	4.9	1.7	ug/L		12/26/17 12:46	12/28/17 16:52	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/26/17 12:46	12/28/17 16:52	1
Fluoranthene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 16:52	1
Fluorene	ND	H	0.19	0.039	ug/L		12/26/17 12:46	12/28/17 16:52	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	0.19	0.083	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Hexachlorobutadiene	ND	H	0.97	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Hexachlorocyclopentadiene	ND	H	9.7	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Hexachloroethane	ND	H	0.97	0.18	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Indeno[1,2,3-cd]pyrene	ND	H	0.19	0.042	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Isophorone	ND	H	0.97	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2-Methylphenol	ND	H	0.97	0.17	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Naphthalene	ND	H	0.19	0.061	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2-Nitroaniline	ND	H	1.9	0.20	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
3-Nitroaniline	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
4-Nitroaniline	ND	H	1.9	0.21	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Nitrobenzene	ND	H	0.97	0.039	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2-Nitrophenol	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
4-Nitrophenol	ND	H	4.9	0.28	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
N-Nitrosodiphenylamine	ND	H	0.97	0.30	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
N-Nitrosodi-n-propylamine	ND	H	0.97	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2,2'-oxybis[1-chloropropane]	ND	H	0.97	0.39	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Pentachlorophenol	ND	H	4.9	0.26	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Phenanthrene	ND	H	0.19	0.060	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Phenol	ND	H	0.97	0.58	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
Pyrene	ND	H	0.19	0.041	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2,4,5-Trichlorophenol	ND	H	4.9	0.29	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2,4,6-Trichlorophenol	ND	H	4.9	0.23	ug/L	-	12/26/17 12:46	12/28/17 16:52	1
2,6-Dinitrotoluene	ND	H	4.9	0.78	ug/L	-	12/26/17 12:46	12/28/17 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		38 - 120	12/26/17 12:46	12/28/17 16:52	1
2-Fluorophenol (Surr)	35		10 - 120	12/26/17 12:46	12/28/17 16:52	1
2,4,6-Tribromophenol (Surr)	80		28 - 120	12/26/17 12:46	12/28/17 16:52	1
Nitrobenzene-d5 (Surr)	55		32 - 120	12/26/17 12:46	12/28/17 16:52	1
Phenol-d5 (Surr)	23		10 - 120	12/26/17 12:46	12/28/17 16:52	1
Terphenyl-d14 (Surr)	95		23 - 127	12/26/17 12:46	12/28/17 16:52	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	63	J	100	40	ug/L	-		12/18/17 18:55	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1221	ND		0.19	0.086	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1232	ND		0.19	0.067	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1242	ND		0.19	0.057	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1248	ND		0.19	0.048	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1254	ND		0.19	0.029	ug/L	-	12/21/17 07:29	12/22/17 13:17	1
Aroclor-1260	ND		0.19	0.038	ug/L	-	12/21/17 07:29	12/22/17 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		10 - 120	12/21/17 07:29	12/22/17 13:17	1
Tetrachloro-m-xylene	82		22 - 120	12/21/17 07:29	12/22/17 13:17	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.10	B	0.097	0.019	mg/L	-	12/18/17 10:23	12/19/17 21:25	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	190	J	200	1.3	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Arsenic	ND		10	4.1	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Calcium	170000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Cobalt	ND		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Copper	ND		25	3.5	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Iron	210		100	26	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Potassium	3200	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Magnesium	49000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Manganese	900		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Sodium	47000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Nickel	3.8	J	40	2.2	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 17:39	1
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:39	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:10	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0021	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 14:07	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 14:03	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 14:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 14:03	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 14:03	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 14:03	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 14:03	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 14:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 14:03	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 14:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 14:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 14:03	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 14:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 14:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 14:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:03	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:03	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 14:03	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 14:03	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 14:03	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 14:03	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 14:03	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 14:03	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 14:03	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 14:03	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 14:03	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 14:03	1
Acetone	3.3	J	10	1.8	ug/L			12/27/17 14:03	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 14:03	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 14:03	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 14:03	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 14:03	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 14:03	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:03	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 14:03	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 14:03	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 14:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 14:03	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 14:03	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 14:03	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 14:03	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 14:03	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 14:03	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:03	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 14:03	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 14:03	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:03	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 14:03	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 14:03	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 14:03	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:03	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:03	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 14:03	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 14:03	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 14:03	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 14:03	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 14:03	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 14:03	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 14:03	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 14:03	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 14:03	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 14:03	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 14:03	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 14:03	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 14:03	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 14:03	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:03	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 14:03	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 14:03	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		61 - 138		12/27/17 14:03	1
4-Bromofluorobenzene (Surr)	84		69 - 120		12/27/17 14:03	1
Toluene-d8 (Surr)	112		73 - 120		12/27/17 14:03	1
Dibromofluoromethane (Surr)	111		69 - 124		12/27/17 14:03	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 12:24	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/26/17 12:24	1
Acetophenone	ND		0.96	0.33	ug/L		12/21/17 10:30	12/26/17 12:24	1
Anthracene	ND		0.19	0.085	ug/L		12/21/17 10:30	12/26/17 12:24	1
Atrazine	ND		1.9	0.33	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzo[g,h,i]perylene	ND		0.19	0.045	ug/L		12/21/17 10:30	12/26/17 12:24	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/26/17 12:24	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/26/17 12:24	1
1,1'-Biphenyl	ND		0.96	0.13	ug/L		12/21/17 10:30	12/26/17 12:24	1
Bis(2-chloroethoxy)methane	ND		0.96	0.31	ug/L		12/21/17 10:30	12/26/17 12:24	1
Bis(2-chloroethyl)ether	ND		0.96	0.096	ug/L		12/21/17 10:30	12/26/17 12:24	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 12:24	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/26/17 12:24	1
Carbazole	ND		0.96	0.27	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Chloronaphthalene	ND		0.96	0.096	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Chlorophenol	ND		0.96	0.28	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/26/17 12:24	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Methylnaphthalene	ND		0.19	0.087	ug/L		12/21/17 10:30	12/26/17 12:24	1
3 & 4 Methylphenol	ND		1.9	0.77	ug/L		12/21/17 10:30	12/26/17 12:24	1
Dibenz(a,h)anthracene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 12:24	1
Dibenzofuran	ND		0.96	0.019	ug/L		12/21/17 10:30	12/26/17 12:24	1
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/26/17 12:24	1
Diethyl phthalate	ND		1.9	0.58	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/26/17 12:24	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/26/17 12:24	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4-Dinitrophenol	ND		4.8	0.31	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/26/17 12:24	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 12:24	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/26/17 12:24	1
Fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 12:24	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/26/17 12:24	1
Hexachlorobenzene	ND		0.19	0.082	ug/L		12/21/17 10:30	12/26/17 12:24	1
Hexachlorobutadiene	ND		0.96	0.26	ug/L		12/21/17 10:30	12/26/17 12:24	1
Hexachlorocyclopentadiene	ND		9.6	0.23	ug/L		12/21/17 10:30	12/26/17 12:24	1
Hexachloroethane	ND		0.96	0.18	ug/L		12/21/17 10:30	12/26/17 12:24	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 12:24	1
Isophorone	ND		0.96	0.26	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Methylphenol	ND		0.96	0.16	ug/L		12/21/17 10:30	12/26/17 12:24	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:24	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 12:24	1
Nitrobenzene	ND		0.96	0.038	ug/L		12/21/17 10:30	12/26/17 12:24	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 12:24	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/26/17 12:24	1
N-Nitrosodiphenylamine	ND		0.96	0.30	ug/L		12/21/17 10:30	12/26/17 12:24	1
N-Nitrosodi-n-propylamine	ND		0.96	0.23	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,2'-oxybis[1-chloropropane]	ND		0.96	0.38	ug/L		12/21/17 10:30	12/26/17 12:24	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/26/17 12:24	1
Phenanthrene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 12:24	1
Phenol	ND		0.96	0.58	ug/L		12/21/17 10:30	12/26/17 12:24	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/26/17 12:24	1
2,6-Dinitrotoluene	ND		4.8	0.77	ug/L		12/21/17 10:30	12/26/17 12:24	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		38 - 120	12/21/17 10:30	12/26/17 12:24	1
2-Fluorophenol (Surr)	44		10 - 120	12/21/17 10:30	12/26/17 12:24	1
2,4,6-Tribromophenol (Surr)	68		28 - 120	12/21/17 10:30	12/26/17 12:24	1
Nitrobenzene-d5 (Surr)	66		32 - 120	12/21/17 10:30	12/26/17 12:24	1
Phenol-d5 (Surr)	28		10 - 120	12/21/17 10:30	12/26/17 12:24	1
Terphenyl-d14 (Surr)	99		23 - 127	12/21/17 10:30	12/26/17 12:24	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 19:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1221	ND		0.19	0.087	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1242	ND		0.19	0.058	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/21/17 07:29	12/22/17 13:35	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/21/17 07:29	12/22/17 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		10 - 120	12/21/17 07:29	12/22/17 13:35	1
Tetrachloro-m-xylene	77		22 - 120	12/21/17 07:29	12/22/17 13:35	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.068	J B	0.098	0.020	mg/L		12/18/17 10:23	12/19/17 21:52	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	92	J	200	1.3	ug/L		12/18/17 14:00	12/19/17 17:44	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 17:44	1
Cadmium	0.23	J	5.0	0.20	ug/L		12/18/17 14:00	12/19/17 17:44	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 17:44	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 17:44	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 17:44	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 17:44	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 17:44	1
Calcium	170000		5000	310	ug/L		12/18/17 14:00	12/19/17 17:44	1
Cobalt	1.4	J	7.0	0.75	ug/L		12/18/17 14:00	12/19/17 17:44	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 17:44	1
Iron	1000		100	26	ug/L		12/18/17 14:00	12/19/17 17:44	1
Potassium	7900		5000	560	ug/L		12/18/17 14:00	12/19/17 17:44	1
Magnesium	44000		5000	780	ug/L		12/18/17 14:00	12/19/17 17:44	1
Manganese	1600		15	2.1	ug/L		12/18/17 14:00	12/19/17 17:44	1
Sodium	80000		5000	560	ug/L		12/18/17 14:00	12/19/17 17:44	1
Nickel	5.0	J	40	2.2	ug/L		12/18/17 14:00	12/19/17 17:44	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 17:44	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 17:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:44	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:15	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0030	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 14:08	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 14:26	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 14:26	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 14:26	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 14:26	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 14:26	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 14:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 14:26	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 14:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 14:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 14:26	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 14:26	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 14:26	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 14:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:26	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:26	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 14:26	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 14:26	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 14:26	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 14:26	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 14:26	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 14:26	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 14:26	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 14:26	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 14:26	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 14:26	1
Acetone	2.8	J	10	1.8	ug/L			12/27/17 14:26	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 14:26	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 14:26	1
Bromomethane	ND	F2	1.0	0.42	ug/L			12/27/17 14:26	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 14:26	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 14:26	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:26	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 14:26	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 14:26	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 14:26	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 14:26	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 14:26	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 14:26	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 14:26	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 14:26	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 14:26	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:26	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 14:26	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 14:26	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:26	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 14:26	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 14:26	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 14:26	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:26	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:26	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 14:26	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 14:26	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 14:26	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 14:26	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 14:26	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 14:26	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 14:26	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 14:26	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:26	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 14:26	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 14:26	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 14:26	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 14:26	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 14:26	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 14:26	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:26	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 14:26	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 14:26	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 138		12/27/17 14:26	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/27/17 14:26	1
Toluene-d8 (Surr)	101		73 - 120		12/27/17 14:26	1
Dibromofluoromethane (Surr)	102		69 - 124		12/27/17 14:26	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/22/17 18:32	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/22/17 18:32	1
Acetophenone	ND		0.95	0.32	ug/L		12/21/17 10:30	12/22/17 18:32	1
Anthracene	ND		0.19	0.084	ug/L		12/21/17 10:30	12/22/17 18:32	1
Atrazine	ND		1.9	0.32	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/21/17 10:30	12/22/17 18:32	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/22/17 18:32	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/22/17 18:32	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/21/17 10:30	12/22/17 18:32	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/21/17 10:30	12/22/17 18:32	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/21/17 10:30	12/22/17 18:32	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 18:32	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	F1	4.8	0.19	ug/L		12/21/17 10:30	12/22/17 18:32	1
Carbazole	ND		0.95	0.27	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/22/17 18:32	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/21/17 10:30	12/22/17 18:32	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/21/17 10:30	12/22/17 18:32	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/22/17 18:32	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/21/17 10:30	12/22/17 18:32	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/22/17 18:32	1
Diethyl phthalate	0.61	J B	1.9	0.57	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/22/17 18:32	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/22/17 18:32	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/22/17 18:32	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/22/17 18:32	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/22/17 18:32	1
Fluoranthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/22/17 18:32	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/22/17 18:32	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/21/17 10:30	12/22/17 18:32	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/21/17 10:30	12/22/17 18:32	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/21/17 10:30	12/22/17 18:32	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/21/17 10:30	12/22/17 18:32	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/21/17 10:30	12/22/17 18:32	1
Isophorone	ND		0.95	0.26	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/21/17 10:30	12/22/17 18:32	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/22/17 18:32	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/22/17 18:32	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/21/17 10:30	12/22/17 18:32	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/22/17 18:32	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/22/17 18:32	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/21/17 10:30	12/22/17 18:32	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/21/17 10:30	12/22/17 18:32	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/22/17 18:32	1
Phenanthrene	ND		0.19	0.059	ug/L		12/21/17 10:30	12/22/17 18:32	1
Phenol	ND		0.95	0.57	ug/L		12/21/17 10:30	12/22/17 18:32	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/22/17 18:32	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/21/17 10:30	12/22/17 18:32	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	55		38 - 120	12/21/17 10:30	12/22/17 18:32	1
2-Fluorophenol (Surr)	26		10 - 120	12/21/17 10:30	12/22/17 18:32	1
2,4,6-Tribromophenol (Surr)	2	X	28 - 120	12/21/17 10:30	12/22/17 18:32	1
Nitrobenzene-d5 (Surr)	46		32 - 120	12/21/17 10:30	12/22/17 18:32	1
Phenol-d5 (Surr)	15		10 - 120	12/21/17 10:30	12/22/17 18:32	1
Terphenyl-d14 (Surr)	74		23 - 127	12/21/17 10:30	12/22/17 18:32	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 15:17	1
Acenaphthylene	ND	H	0.19	0.046	ug/L		12/26/17 12:46	12/28/17 15:17	1
Acetophenone	ND	H	0.95	0.32	ug/L		12/26/17 12:46	12/28/17 15:17	1
Anthracene	ND	H	0.19	0.084	ug/L		12/26/17 12:46	12/28/17 15:17	1
Atrazine	ND	H	1.9	0.32	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzaldehyde	ND	H	1.9	0.37	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzo[a]anthracene	ND	H	0.19	0.028	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzo[b]fluoranthene	ND	H	0.19	0.038	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzo[k]fluoranthene	ND	H	0.19	0.043	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzo[g,h,i]perylene	ND	H	0.19	0.044	ug/L		12/26/17 12:46	12/28/17 15:17	1
Benzo[a]pyrene	ND	H	0.19	0.049	ug/L		12/26/17 12:46	12/28/17 15:17	1
Butyl benzyl phthalate	ND	H	1.9	0.25	ug/L		12/26/17 12:46	12/28/17 15:17	1
1,1'-Biphenyl	ND	H	0.95	0.12	ug/L		12/26/17 12:46	12/28/17 15:17	1
Bis(2-chloroethoxy)methane	ND	H	0.95	0.30	ug/L		12/26/17 12:46	12/28/17 15:17	1
Bis(2-chloroethyl)ether	ND	H	0.95	0.095	ug/L		12/26/17 12:46	12/28/17 15:17	1
Bis(2-ethylhexyl) phthalate	ND	H	4.8	1.6	ug/L		12/26/17 12:46	12/28/17 15:17	1
4-Bromophenyl phenyl ether	ND	H	1.9	0.21	ug/L		12/26/17 12:46	12/28/17 15:17	1
Caprolactam	ND	H	4.8	0.19	ug/L		12/26/17 12:46	12/28/17 15:17	1
Carbazole	ND	H	0.95	0.27	ug/L		12/26/17 12:46	12/28/17 15:17	1
4-Chloroaniline	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 15:17	1
4-Chloro-3-methylphenol	ND	H	1.9	0.20	ug/L		12/26/17 12:46	12/28/17 15:17	1
2-Chloronaphthalene	ND	H	0.95	0.095	ug/L		12/26/17 12:46	12/28/17 15:17	1
2-Chlorophenol	ND	H	0.95	0.28	ug/L		12/26/17 12:46	12/28/17 15:17	1
4-Chlorophenyl phenyl ether	ND	H	1.9	0.29	ug/L		12/26/17 12:46	12/28/17 15:17	1
Chrysene	ND	H	0.19	0.048	ug/L		12/26/17 12:46	12/28/17 15:17	1
2-Methylnaphthalene	ND	H	0.19	0.086	ug/L		12/26/17 12:46	12/28/17 15:17	1
3 & 4 Methylphenol	ND	H	1.9	0.76	ug/L		12/26/17 12:46	12/28/17 15:17	1
Dibenz(a,h)anthracene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 15:17	1
Dibenzofuran	ND	H	0.95	0.019	ug/L		12/26/17 12:46	12/28/17 15:17	1
3,3'-Dichlorobenzidine	ND	H	4.8	0.35	ug/L		12/26/17 12:46	12/28/17 15:17	1
2,4-Dichlorophenol	ND	H	1.9	0.18	ug/L		12/26/17 12:46	12/28/17 15:17	1
Diethyl phthalate	1.6	J H	1.9	0.57	ug/L		12/26/17 12:46	12/28/17 15:17	1
2,4-Dimethylphenol	ND	H	1.9	0.24	ug/L		12/26/17 12:46	12/28/17 15:17	1
Dimethyl phthalate	ND	H	1.9	0.28	ug/L		12/26/17 12:46	12/28/17 15:17	1
4,6-Dinitro-2-methylphenol	ND	H	4.8	2.3	ug/L		12/26/17 12:46	12/28/17 15:17	1
2,4-Dinitrophenol	ND	H	4.8	0.30	ug/L		12/26/17 12:46	12/28/17 15:17	1
2,4-Dinitrotoluene	ND	H	4.8	0.24	ug/L		12/26/17 12:46	12/28/17 15:17	1
Di-n-butyl phthalate	ND	H	4.8	1.6	ug/L		12/26/17 12:46	12/28/17 15:17	1
Di-n-octyl phthalate	ND	H	1.9	0.22	ug/L		12/26/17 12:46	12/28/17 15:17	1
Fluoranthene	ND	H	0.19	0.042	ug/L		12/26/17 12:46	12/28/17 15:17	1
Fluorene	ND	H	0.19	0.039	ug/L		12/26/17 12:46	12/28/17 15:17	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	H	0.19	0.081	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Hexachlorobutadiene	ND	H	0.95	0.26	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Hexachlorocyclopentadiene	ND	H	9.5	0.23	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Hexachloroethane	ND	H	0.95	0.18	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Indeno[1,2,3-cd]pyrene	ND	H	0.19	0.041	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Isophorone	ND	H	0.95	0.26	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2-Methylphenol	ND	H	0.95	0.16	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Naphthalene	ND	H	0.19	0.060	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2-Nitroaniline	ND	H	1.9	0.20	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
3-Nitroaniline	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
4-Nitroaniline	ND	H	1.9	0.21	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Nitrobenzene	ND	H	0.95	0.038	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2-Nitrophenol	ND	H	1.9	0.27	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
4-Nitrophenol	ND	H	4.8	0.28	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
N-Nitrosodiphenylamine	ND	H	0.95	0.30	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
N-Nitrosodi-n-propylamine	ND	H	0.95	0.23	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2,2'-oxybis[1-chloropropane]	ND	H	0.95	0.38	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Pentachlorophenol	ND	H	4.8	0.26	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Phenanthrene	ND	H	0.19	0.059	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Phenol	ND	H	0.95	0.57	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
Pyrene	ND	H	0.19	0.040	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2,4,5-Trichlorophenol	ND	H	4.8	0.29	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2,4,6-Trichlorophenol	ND	H	4.8	0.23	ug/L	-	12/26/17 12:46	12/28/17 15:17	1
2,6-Dinitrotoluene	ND	H	4.8	0.76	ug/L	-	12/26/17 12:46	12/28/17 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		38 - 120	12/26/17 12:46	12/28/17 15:17	1
2-Fluorophenol (Surr)	32		10 - 120	12/26/17 12:46	12/28/17 15:17	1
2,4,6-Tribromophenol (Surr)	73		28 - 120	12/26/17 12:46	12/28/17 15:17	1
Nitrobenzene-d5 (Surr)	53		32 - 120	12/26/17 12:46	12/28/17 15:17	1
Phenol-d5 (Surr)	21		10 - 120	12/26/17 12:46	12/28/17 15:17	1
Terphenyl-d14 (Surr)	102		23 - 127	12/26/17 12:46	12/28/17 15:17	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/18/17 20:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1221	ND		0.19	0.086	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1232	ND		0.19	0.067	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1242	ND		0.19	0.057	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1248	ND		0.19	0.048	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1254	ND		0.19	0.029	ug/L	-	12/21/17 07:29	12/22/17 13:54	1
Aroclor-1260	ND		0.19	0.038	ug/L	-	12/21/17 07:29	12/22/17 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		10 - 120	12/21/17 07:29	12/22/17 13:54	1
Tetrachloro-m-xylene	64		22 - 120	12/21/17 07:29	12/22/17 13:54	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.096	0.019	mg/L	-	12/18/17 10:23	12/19/17 22:19	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	210		200	1.3	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Aluminum	ND		200	47	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Cadmium	ND		5.0	0.20	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Chromium	ND		10	0.63	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Silver	ND		10	0.62	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Arsenic	5.6	J	10	4.1	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Beryllium	ND		5.0	0.60	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Lead	ND		3.0	2.8	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Calcium	83000		5000	310	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Cobalt	ND		7.0	0.75	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Copper	ND		25	3.5	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Iron	3500		100	26	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Potassium	2100	J	5000	560	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Magnesium	28000		5000	780	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Manganese	230		15	2.1	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Sodium	10000		5000	560	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Nickel	ND		40	2.2	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Antimony	ND		10	7.5	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Vanadium	ND		10	5.6	ug/L	-	12/18/17 14:00	12/19/17 16:22	1
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 16:22	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 11:21	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 11:21	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 19:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0021	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 13:45	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 14:48	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 14:48	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 14:48	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 14:48	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 14:48	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 14:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 14:48	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 14:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 14:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 14:48	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 14:48	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 14:48	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 14:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 14:48	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:48	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 14:48	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 14:48	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 14:48	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 14:48	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 14:48	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 14:48	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 14:48	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 14:48	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 14:48	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 14:48	1
Acetone	2.9	J	10	1.8	ug/L			12/27/17 14:48	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 14:48	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 14:48	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 14:48	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 14:48	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 14:48	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 14:48	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 14:48	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 14:48	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 14:48	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 14:48	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 14:48	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 14:48	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 14:48	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 14:48	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 14:48	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:48	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 14:48	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 14:48	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:48	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 14:48	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 14:48	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 14:48	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:48	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 14:48	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 14:48	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 14:48	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 14:48	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 14:48	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 14:48	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 14:48	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 14:48	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 14:48	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 14:48	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 14:48	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 14:48	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 14:48	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 14:48	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 14:48	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 14:48	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 14:48	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 14:48	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 14:48	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		12/27/17 14:48	1
4-Bromofluorobenzene (Surr)	77		69 - 120		12/27/17 14:48	1
Toluene-d8 (Surr)	106		73 - 120		12/27/17 14:48	1
Dibromofluoromethane (Surr)	106		69 - 124		12/27/17 14:48	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 12:48	1
Acenaphthylene	ND		0.19	0.046	ug/L		12/21/17 10:30	12/26/17 12:48	1
Acetophenone	ND		0.95	0.32	ug/L		12/21/17 10:30	12/26/17 12:48	1
Anthracene	ND		0.19	0.084	ug/L		12/21/17 10:30	12/26/17 12:48	1
Atrazine	ND		1.9	0.32	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzaldehyde	ND		1.9	0.37	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzo[a]anthracene	ND		0.19	0.028	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzo[b]fluoranthene	ND		0.19	0.038	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzo[k]fluoranthene	ND		0.19	0.043	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzo[g,h,i]perylene	ND		0.19	0.044	ug/L		12/21/17 10:30	12/26/17 12:48	1
Benzo[a]pyrene	ND		0.19	0.049	ug/L		12/21/17 10:30	12/26/17 12:48	1
Butyl benzyl phthalate	ND		1.9	0.25	ug/L		12/21/17 10:30	12/26/17 12:48	1
1,1'-Biphenyl	ND		0.95	0.12	ug/L		12/21/17 10:30	12/26/17 12:48	1
Bis(2-chloroethoxy)methane	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 12:48	1
Bis(2-chloroethyl)ether	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 12:48	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Bromophenyl phenyl ether	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 12:48	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		4.8	0.19	ug/L		12/21/17 10:30	12/26/17 12:48	1
Carbazole	ND		0.95	0.27	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Chloroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Chloro-3-methylphenol	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Chloronaphthalene	ND		0.95	0.095	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Chlorophenol	ND		0.95	0.28	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Chlorophenyl phenyl ether	ND		1.9	0.29	ug/L		12/21/17 10:30	12/26/17 12:48	1
Chrysene	ND		0.19	0.048	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Methylnaphthalene	ND		0.19	0.086	ug/L		12/21/17 10:30	12/26/17 12:48	1
3 & 4 Methylphenol	ND		1.9	0.76	ug/L		12/21/17 10:30	12/26/17 12:48	1
Dibenz(a,h)anthracene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 12:48	1
Dibenzofuran	ND		0.95	0.019	ug/L		12/21/17 10:30	12/26/17 12:48	1
3,3'-Dichlorobenzidine	ND		4.8	0.35	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4-Dichlorophenol	ND		1.9	0.18	ug/L		12/21/17 10:30	12/26/17 12:48	1
Diethyl phthalate	ND		1.9	0.57	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4-Dimethylphenol	ND		1.9	0.24	ug/L		12/21/17 10:30	12/26/17 12:48	1
Dimethyl phthalate	ND		1.9	0.28	ug/L		12/21/17 10:30	12/26/17 12:48	1
4,6-Dinitro-2-methylphenol	ND		4.8	2.3	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4-Dinitrophenol	ND		4.8	0.30	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4-Dinitrotoluene	ND		4.8	0.24	ug/L		12/21/17 10:30	12/26/17 12:48	1
Di-n-butyl phthalate	ND		4.8	1.6	ug/L		12/21/17 10:30	12/26/17 12:48	1
Di-n-octyl phthalate	ND		1.9	0.22	ug/L		12/21/17 10:30	12/26/17 12:48	1
Fluoranthene	ND		0.19	0.042	ug/L		12/21/17 10:30	12/26/17 12:48	1
Fluorene	ND		0.19	0.039	ug/L		12/21/17 10:30	12/26/17 12:48	1
Hexachlorobenzene	ND		0.19	0.081	ug/L		12/21/17 10:30	12/26/17 12:48	1
Hexachlorobutadiene	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 12:48	1
Hexachlorocyclopentadiene	ND		9.5	0.23	ug/L		12/21/17 10:30	12/26/17 12:48	1
Hexachloroethane	ND		0.95	0.18	ug/L		12/21/17 10:30	12/26/17 12:48	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.041	ug/L		12/21/17 10:30	12/26/17 12:48	1
Isophorone	ND		0.95	0.26	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Methylphenol	ND		0.95	0.16	ug/L		12/21/17 10:30	12/26/17 12:48	1
Naphthalene	ND		0.19	0.060	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Nitroaniline	ND		1.9	0.20	ug/L		12/21/17 10:30	12/26/17 12:48	1
3-Nitroaniline	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Nitroaniline	ND		1.9	0.21	ug/L		12/21/17 10:30	12/26/17 12:48	1
Nitrobenzene	ND		0.95	0.038	ug/L		12/21/17 10:30	12/26/17 12:48	1
2-Nitrophenol	ND		1.9	0.27	ug/L		12/21/17 10:30	12/26/17 12:48	1
4-Nitrophenol	ND		4.8	0.28	ug/L		12/21/17 10:30	12/26/17 12:48	1
N-Nitrosodiphenylamine	ND		0.95	0.30	ug/L		12/21/17 10:30	12/26/17 12:48	1
N-Nitrosodi-n-propylamine	ND		0.95	0.23	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,2'-oxybis[1-chloropropane]	ND		0.95	0.38	ug/L		12/21/17 10:30	12/26/17 12:48	1
Pentachlorophenol	ND		4.8	0.26	ug/L		12/21/17 10:30	12/26/17 12:48	1
Phenanthrene	ND		0.19	0.059	ug/L		12/21/17 10:30	12/26/17 12:48	1
Phenol	ND		0.95	0.57	ug/L		12/21/17 10:30	12/26/17 12:48	1
Pyrene	ND		0.19	0.040	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4,5-Trichlorophenol	ND		4.8	0.29	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,4,6-Trichlorophenol	ND		4.8	0.23	ug/L		12/21/17 10:30	12/26/17 12:48	1
2,6-Dinitrotoluene	ND		4.8	0.76	ug/L		12/21/17 10:30	12/26/17 12:48	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		38 - 120	12/21/17 10:30	12/26/17 12:48	1
2-Fluorophenol (Surr)	36		10 - 120	12/21/17 10:30	12/26/17 12:48	1
2,4,6-Tribromophenol (Surr)	47		28 - 120	12/21/17 10:30	12/26/17 12:48	1
Nitrobenzene-d5 (Surr)	60		32 - 120	12/21/17 10:30	12/26/17 12:48	1
Phenol-d5 (Surr)	22		10 - 120	12/21/17 10:30	12/26/17 12:48	1
Terphenyl-d14 (Surr)	85		23 - 127	12/21/17 10:30	12/26/17 12:48	1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 22:57	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1221	ND		0.19	0.086	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1232	ND		0.19	0.067	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1242	ND		0.19	0.057	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1248	ND		0.19	0.048	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1254	ND		0.19	0.029	ug/L		12/21/17 07:29	12/22/17 14:49	1
Aroclor-1260	ND		0.19	0.038	ug/L		12/21/17 07:29	12/22/17 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		10 - 120	12/21/17 07:29	12/22/17 14:49	1
Tetrachloro-m-xylene	68		22 - 120	12/21/17 07:29	12/22/17 14:49	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.067	J B	0.095	0.019	mg/L		12/18/17 10:23	12/19/17 23:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	180	J	200	1.3	ug/L		12/18/17 14:00	12/19/17 17:48	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 17:48	1
Cadmium	ND		5.0	0.20	ug/L		12/18/17 14:00	12/19/17 17:48	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 17:48	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 17:48	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 17:48	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 17:48	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 17:48	1
Calcium	150000		5000	310	ug/L		12/18/17 14:00	12/19/17 17:48	1
Cobalt	1.9	J	7.0	0.75	ug/L		12/18/17 14:00	12/19/17 17:48	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 17:48	1
Iron	690		100	26	ug/L		12/18/17 14:00	12/19/17 17:48	1
Potassium	3700	J	5000	560	ug/L		12/18/17 14:00	12/19/17 17:48	1
Magnesium	40000		5000	780	ug/L		12/18/17 14:00	12/19/17 17:48	1
Manganese	2500		15	2.1	ug/L		12/18/17 14:00	12/19/17 17:48	1
Sodium	52000		5000	560	ug/L		12/18/17 14:00	12/19/17 17:48	1
Nickel	2.5	J	40	2.2	ug/L		12/18/17 14:00	12/19/17 17:48	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 17:48	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 17:48	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		50	9.7	ug/L	-	12/18/17 14:00	12/19/17 17:48	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L	-	12/18/17 14:00	12/20/17 12:19	1
Thallium	ND		1.0	0.20	ug/L	-	12/18/17 14:00	12/20/17 12:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L	-	12/18/17 14:00	12/19/17 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0022	J	0.010	0.0020	mg/L	-	12/19/17 11:16	12/19/17 14:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-19

Lab Sample ID: 240-89451-9

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/26/17 18:50	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/26/17 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/26/17 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/26/17 18:50	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/26/17 18:50	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/26/17 18:50	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/26/17 18:50	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/26/17 18:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/26/17 18:50	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/26/17 18:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/26/17 18:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/26/17 18:50	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/26/17 18:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/26/17 18:50	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/26/17 18:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 18:50	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:50	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/26/17 18:50	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/26/17 18:50	1
Allyl chloride	ND		2.0	0.38	ug/L			12/26/17 18:50	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/26/17 18:50	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/26/17 18:50	1
2-Hexanone	ND		10	1.2	ug/L			12/26/17 18:50	1
Bromobenzene	ND		1.0	0.31	ug/L			12/26/17 18:50	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/26/17 18:50	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/26/17 18:50	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/26/17 18:50	1
Acetone	ND		10	1.8	ug/L			12/26/17 18:50	1
Benzene	ND		1.0	0.28	ug/L			12/26/17 18:50	1
Bromoform	ND		1.0	0.43	ug/L			12/26/17 18:50	1
Bromomethane	ND		1.0	0.42	ug/L			12/26/17 18:50	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/26/17 18:50	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/26/17 18:50	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/26/17 18:50	1
Chloroethane	ND		1.0	0.41	ug/L			12/26/17 18:50	1
Chloroform	ND		1.0	0.31	ug/L			12/26/17 18:50	1
Chloromethane	ND		1.0	0.43	ug/L			12/26/17 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/26/17 18:50	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/26/17 18:50	1
Cyclohexane	ND		1.0	0.44	ug/L			12/26/17 18:50	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/26/17 18:50	1
Dibromomethane	ND		1.0	0.46	ug/L			12/26/17 18:50	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/26/17 18:50	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:50	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/26/17 18:50	1
Ethyl ether	ND		1.0	0.35	ug/L			12/26/17 18:50	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:50	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/26/17 18:50	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-19

Lab Sample ID: 240-89451-9

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/26/17 18:50	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/26/17 18:50	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:50	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/26/17 18:50	1
Methyl acetate	ND		10	1.4	ug/L			12/26/17 18:50	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/26/17 18:50	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/26/17 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/26/17 18:50	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/26/17 18:50	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/26/17 18:50	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/26/17 18:50	1
o-Xylene	ND		1.0	0.28	ug/L			12/26/17 18:50	1
Styrene	ND		1.0	0.23	ug/L			12/26/17 18:50	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/26/17 18:50	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/26/17 18:50	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/26/17 18:50	1
Toluene	ND		1.0	0.23	ug/L			12/26/17 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/26/17 18:50	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/26/17 18:50	1
Trichloroethene	ND		1.0	0.33	ug/L			12/26/17 18:50	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/26/17 18:50	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/26/17 18:50	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/26/17 18:50	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/26/17 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 138		12/26/17 18:50	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/26/17 18:50	1
Toluene-d8 (Surr)	97		73 - 120		12/26/17 18:50	1
Dibromofluoromethane (Surr)	106		69 - 124		12/26/17 18:50	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK DUP-01

Lab Sample ID: 240-89451-10

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/26/17 19:12	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/26/17 19:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/26/17 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/26/17 19:12	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/26/17 19:12	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/26/17 19:12	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/26/17 19:12	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/26/17 19:12	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/26/17 19:12	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/26/17 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/26/17 19:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 19:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/26/17 19:12	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/26/17 19:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/26/17 19:12	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/26/17 19:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 19:12	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/26/17 19:12	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/26/17 19:12	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/26/17 19:12	1
Allyl chloride	ND		2.0	0.38	ug/L			12/26/17 19:12	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/26/17 19:12	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/26/17 19:12	1
2-Hexanone	ND		10	1.2	ug/L			12/26/17 19:12	1
Bromobenzene	ND		1.0	0.31	ug/L			12/26/17 19:12	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/26/17 19:12	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/26/17 19:12	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/26/17 19:12	1
Acetone	ND		10	1.8	ug/L			12/26/17 19:12	1
Benzene	ND		1.0	0.28	ug/L			12/26/17 19:12	1
Bromoform	ND		1.0	0.43	ug/L			12/26/17 19:12	1
Bromomethane	ND		1.0	0.42	ug/L			12/26/17 19:12	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/26/17 19:12	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/26/17 19:12	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/26/17 19:12	1
Chloroethane	ND		1.0	0.41	ug/L			12/26/17 19:12	1
Chloroform	ND		1.0	0.31	ug/L			12/26/17 19:12	1
Chloromethane	ND		1.0	0.43	ug/L			12/26/17 19:12	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/26/17 19:12	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/26/17 19:12	1
Cyclohexane	ND		1.0	0.44	ug/L			12/26/17 19:12	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/26/17 19:12	1
Dibromomethane	ND		1.0	0.46	ug/L			12/26/17 19:12	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/26/17 19:12	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/26/17 19:12	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/26/17 19:12	1
Ethyl ether	ND		1.0	0.35	ug/L			12/26/17 19:12	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/26/17 19:12	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/26/17 19:12	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK DUP-01

Lab Sample ID: 240-89451-10

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/26/17 19:12	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/26/17 19:12	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/26/17 19:12	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/26/17 19:12	1
Methyl acetate	ND		10	1.4	ug/L			12/26/17 19:12	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/26/17 19:12	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/26/17 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/26/17 19:12	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/26/17 19:12	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/26/17 19:12	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/26/17 19:12	1
o-Xylene	ND		1.0	0.28	ug/L			12/26/17 19:12	1
Styrene	ND		1.0	0.23	ug/L			12/26/17 19:12	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/26/17 19:12	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/26/17 19:12	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/26/17 19:12	1
Toluene	ND		1.0	0.23	ug/L			12/26/17 19:12	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/26/17 19:12	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/26/17 19:12	1
Trichloroethene	ND		1.0	0.33	ug/L			12/26/17 19:12	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/26/17 19:12	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/26/17 19:12	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/26/17 19:12	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/26/17 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		61 - 138		12/26/17 19:12	1
4-Bromofluorobenzene (Surr)	74		69 - 120		12/26/17 19:12	1
Toluene-d8 (Surr)	97		73 - 120		12/26/17 19:12	1
Dibromofluoromethane (Surr)	100		69 - 124		12/26/17 19:12	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-25

Lab Sample ID: 240-89451-11

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 15:11	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 15:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 15:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 15:11	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 15:11	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 15:11	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 15:11	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 15:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 15:11	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 15:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 15:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 15:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 15:11	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 15:11	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 15:11	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 15:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 15:11	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 15:11	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 15:11	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 15:11	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 15:11	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 15:11	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 15:11	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 15:11	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 15:11	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 15:11	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 15:11	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 15:11	1
Acetone	ND		10	1.8	ug/L			12/27/17 15:11	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 15:11	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 15:11	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 15:11	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 15:11	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 15:11	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 15:11	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 15:11	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 15:11	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 15:11	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 15:11	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 15:11	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 15:11	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 15:11	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 15:11	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 15:11	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 15:11	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/27/17 15:11	1
Ethyl ether	ND		1.0	0.35	ug/L			12/27/17 15:11	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 15:11	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 15:11	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-25

Lab Sample ID: 240-89451-11

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 15:11	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 15:11	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 15:11	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 15:11	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 15:11	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 15:11	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 15:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/27/17 15:11	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 15:11	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/27/17 15:11	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/27/17 15:11	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 15:11	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 15:11	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 15:11	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 15:11	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 15:11	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 15:11	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 15:11	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 15:11	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 15:11	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 15:11	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 15:11	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 15:11	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		61 - 138		12/27/17 15:11	1
4-Bromofluorobenzene (Surr)	81		69 - 120		12/27/17 15:11	1
Toluene-d8 (Surr)	106		73 - 120		12/27/17 15:11	1
Dibromofluoromethane (Surr)	106		69 - 124		12/27/17 15:11	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-20

Lab Sample ID: 240-89451-12

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 15:58	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 15:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 15:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 15:58	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 15:58	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 15:58	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 15:58	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 15:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 15:58	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 15:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 15:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 15:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 15:58	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 15:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 15:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 15:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 15:58	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 15:58	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 15:58	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 15:58	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 15:58	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 15:58	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 15:58	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 15:58	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 15:58	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 15:58	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 15:58	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 15:58	1
Acetone	ND		10	1.8	ug/L			12/28/17 15:58	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 15:58	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 15:58	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 15:58	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 15:58	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 15:58	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 15:58	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 15:58	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 15:58	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 15:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 15:58	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 15:58	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 15:58	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 15:58	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 15:58	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 15:58	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 15:58	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 15:58	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 15:58	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 15:58	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 15:58	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-20

Lab Sample ID: 240-89451-12

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 15:58	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 15:58	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 15:58	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 15:58	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 15:58	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 15:58	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 15:58	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 15:58	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 15:58	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 15:58	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 15:58	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 15:58	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 15:58	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 15:58	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 15:58	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 15:58	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 15:58	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 15:58	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 15:58	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 15:58	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 15:58	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 15:58	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		12/28/17 15:58	1
4-Bromofluorobenzene (Surr)	83		69 - 120		12/28/17 15:58	1
Toluene-d8 (Surr)	108		73 - 120		12/28/17 15:58	1
Dibromofluoromethane (Surr)	109		69 - 124		12/28/17 15:58	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK DUP-02

Lab Sample ID: 240-89451-13

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 16:21	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 16:21	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 16:21	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 16:21	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 16:21	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 16:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 16:21	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 16:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 16:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 16:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 16:21	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 16:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 16:21	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 16:21	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 16:21	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 16:21	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 16:21	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 16:21	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 16:21	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 16:21	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 16:21	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 16:21	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 16:21	1
Acetone	ND		10	1.8	ug/L			12/28/17 16:21	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 16:21	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 16:21	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 16:21	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 16:21	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 16:21	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 16:21	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 16:21	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 16:21	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 16:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 16:21	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 16:21	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 16:21	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 16:21	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 16:21	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 16:21	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 16:21	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 16:21	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 16:21	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 16:21	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 16:21	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK DUP-02

Lab Sample ID: 240-89451-13

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 16:21	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 16:21	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 16:21	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 16:21	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 16:21	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 16:21	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 16:21	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 16:21	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 16:21	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 16:21	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 16:21	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 16:21	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 16:21	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 16:21	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 16:21	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 16:21	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 16:21	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 16:21	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 16:21	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 16:21	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 16:21	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 138		12/28/17 16:21	1
4-Bromofluorobenzene (Surr)	75		69 - 120		12/28/17 16:21	1
Toluene-d8 (Surr)	99		73 - 120		12/28/17 16:21	1
Dibromofluoromethane (Surr)	104		69 - 124		12/28/17 16:21	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-24

Lab Sample ID: 240-89451-14

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 16:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 16:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 16:44	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 16:44	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 16:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 16:44	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 16:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 16:44	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 16:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 16:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 16:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 16:44	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 16:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 16:44	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 16:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 16:44	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 16:44	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 16:44	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 16:44	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 16:44	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 16:44	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 16:44	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 16:44	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 16:44	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 16:44	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 16:44	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 16:44	1
Acetone	ND		10	1.8	ug/L			12/28/17 16:44	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 16:44	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 16:44	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 16:44	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 16:44	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 16:44	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 16:44	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 16:44	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 16:44	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 16:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 16:44	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 16:44	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 16:44	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 16:44	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 16:44	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 16:44	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 16:44	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 16:44	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 16:44	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 16:44	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 16:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-24

Lab Sample ID: 240-89451-14

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 16:44	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 16:44	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 16:44	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 16:44	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 16:44	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 16:44	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 16:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 16:44	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 16:44	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 16:44	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 16:44	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 16:44	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 16:44	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 16:44	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 16:44	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 16:44	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 16:44	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 16:44	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 16:44	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 16:44	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 16:44	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 16:44	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		61 - 138		12/28/17 16:44	1
4-Bromofluorobenzene (Surr)	76		69 - 120		12/28/17 16:44	1
Toluene-d8 (Surr)	107		73 - 120		12/28/17 16:44	1
Dibromofluoromethane (Surr)	109		69 - 124		12/28/17 16:44	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B

Lab Sample ID: 240-89451-15

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 17:06	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 17:06	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 17:06	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 17:06	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 17:06	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 17:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 17:06	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 17:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 17:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 17:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 17:06	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 17:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 17:06	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 17:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 17:06	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 17:06	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 17:06	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 17:06	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 17:06	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 17:06	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 17:06	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 17:06	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 17:06	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 17:06	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 17:06	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 17:06	1
Acetone	ND		10	1.8	ug/L			12/28/17 17:06	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 17:06	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 17:06	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 17:06	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 17:06	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 17:06	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 17:06	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 17:06	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 17:06	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 17:06	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 17:06	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 17:06	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 17:06	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 17:06	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 17:06	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 17:06	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 17:06	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 17:06	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 17:06	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 17:06	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 17:06	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B

Lab Sample ID: 240-89451-15

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 17:06	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 17:06	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 17:06	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 17:06	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 17:06	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 17:06	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 17:06	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 17:06	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 17:06	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 17:06	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 17:06	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 17:06	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 17:06	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 17:06	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 17:06	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 17:06	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 17:06	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 17:06	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 17:06	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 17:06	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 17:06	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 17:06	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 138		12/28/17 17:06	1
4-Bromofluorobenzene (Surr)	81		69 - 120		12/28/17 17:06	1
Toluene-d8 (Surr)	110		73 - 120		12/28/17 17:06	1
Dibromofluoromethane (Surr)	108		69 - 124		12/28/17 17:06	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B MS

Lab Sample ID: 240-89451-16

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 17:29	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 17:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 17:29	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 17:29	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 17:29	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 17:29	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 17:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 17:29	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 17:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 17:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 17:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 17:29	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 17:29	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 17:29	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 17:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 17:29	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 17:29	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 17:29	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 17:29	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 17:29	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 17:29	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 17:29	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 17:29	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 17:29	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 17:29	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 17:29	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 17:29	1
Acetone	ND		10	1.8	ug/L			12/28/17 17:29	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 17:29	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 17:29	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 17:29	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 17:29	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 17:29	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 17:29	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 17:29	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 17:29	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 17:29	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 17:29	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 17:29	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 17:29	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 17:29	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 17:29	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 17:29	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 17:29	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 17:29	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 17:29	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 17:29	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 17:29	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B MS

Lab Sample ID: 240-89451-16

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 17:29	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 17:29	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 17:29	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 17:29	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 17:29	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 17:29	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 17:29	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 17:29	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 17:29	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 17:29	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 17:29	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 17:29	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 17:29	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 17:29	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 17:29	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 17:29	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 17:29	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 17:29	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 17:29	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 17:29	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 17:29	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 17:29	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 138		12/28/17 17:29	1
4-Bromofluorobenzene (Surr)	78		69 - 120		12/28/17 17:29	1
Toluene-d8 (Surr)	108		73 - 120		12/28/17 17:29	1
Dibromofluoromethane (Surr)	106		69 - 124		12/28/17 17:29	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B MSD

Lab Sample ID: 240-89451-17

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 18:31	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 18:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 18:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 18:31	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 18:31	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 18:31	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 18:31	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 18:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 18:31	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 18:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 18:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 18:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 18:31	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 18:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 18:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 18:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 18:31	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 18:31	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 18:31	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 18:31	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 18:31	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 18:31	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 18:31	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 18:31	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 18:31	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 18:31	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 18:31	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 18:31	1
Acetone	ND		10	1.8	ug/L			12/28/17 18:31	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 18:31	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 18:31	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 18:31	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 18:31	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 18:31	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 18:31	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 18:31	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 18:31	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 18:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 18:31	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 18:31	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 18:31	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 18:31	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 18:31	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 18:31	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 18:31	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 18:31	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 18:31	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 18:31	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 18:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B MSD

Lab Sample ID: 240-89451-17

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 18:31	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 18:31	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 18:31	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 18:31	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 18:31	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 18:31	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 18:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 18:31	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 18:31	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 18:31	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 18:31	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 18:31	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 18:31	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 18:31	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 18:31	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 18:31	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 18:31	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 18:31	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 18:31	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 18:31	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 18:31	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 18:31	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 18:31	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 138		12/28/17 18:31	1
4-Bromofluorobenzene (Surr)	81		69 - 120		12/28/17 18:31	1
Toluene-d8 (Surr)	108		73 - 120		12/28/17 18:31	1
Dibromofluoromethane (Surr)	110		69 - 124		12/28/17 18:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23

Lab Sample ID: 240-89451-18

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 19:35	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 19:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 19:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 19:35	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 19:35	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 19:35	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 19:35	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 19:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 19:35	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 19:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 19:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 19:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 19:35	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 19:35	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 19:35	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 19:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 19:35	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 19:35	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 19:35	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 19:35	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 19:35	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 19:35	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 19:35	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 19:35	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 19:35	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 19:35	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 19:35	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 19:35	1
Acetone	ND		10	1.8	ug/L			12/28/17 19:35	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 19:35	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 19:35	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 19:35	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 19:35	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 19:35	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 19:35	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 19:35	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 19:35	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 19:35	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 19:35	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 19:35	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 19:35	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 19:35	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 19:35	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 19:35	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 19:35	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 19:35	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 19:35	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 19:35	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 19:35	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23

Lab Sample ID: 240-89451-18

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 19:35	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 19:35	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 19:35	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 19:35	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 19:35	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 19:35	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 19:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 19:35	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 19:35	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 19:35	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 19:35	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 19:35	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 19:35	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 19:35	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 19:35	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 19:35	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 19:35	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 19:35	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 19:35	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 19:35	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 19:35	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 19:35	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 19:35	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 138		12/28/17 19:35	1
4-Bromofluorobenzene (Surr)	79		69 - 120		12/28/17 19:35	1
Toluene-d8 (Surr)	102		73 - 120		12/28/17 19:35	1
Dibromofluoromethane (Surr)	108		69 - 124		12/28/17 19:35	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK WI GRO

Lab Sample ID: 240-89451-19

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L	-		12/18/17 23:37	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-89451-1	AMW-19 (20171213)	104	75	104	110
240-89451-2	DUP-01 (20171213)	105	75	102	106
240-89451-3	AMW-25 (20171214)	93	78	100	101
240-89451-4	AMW-20 (20171214)	108	80	111	110
240-89451-5	DUP-02 (20171214)	97	72	97	99
240-89451-6	AMW-24 (20171214)	110	84	112	111
240-89451-7	AMW-23B (20171214)	103	76	101	102
240-89451-7 MS	AMW-23B (20171214)	105	96	109	110
240-89451-7 MSD	AMW-23B (20171214)	99	88	103	101
240-89451-8	AMW-23 (20171214)	104	77	106	106
240-89451-9	TRIP BLANK AMW-19	100	76	97	106
240-89451-10	TRIP BLANK DUP-01	98	74	97	100
240-89451-11	TRIP BLANK AMW-25	107	81	106	106
240-89451-12	TRIP BLANK AMW-20	104	83	108	109
240-89451-13	TRIP BLANK DUP-02	102	75	99	104
240-89451-14	TRIP BLANK AMW-24	106	76	107	109
240-89451-15	TRIP BLANK AMW-23B	105	81	110	108
240-89451-16	TRIP BLANK AMW-23B MS	103	78	108	106
240-89451-17	TRIP BLANK AMW-23B MSD	105	81	108	110
240-89451-18	TRIP BLANK AMW-23	103	79	102	108
240-89452-A-40 MS	Matrix Spike	96	91	108	107
240-89452-A-40 MSD	Matrix Spike Duplicate	114	97	111	110
240-89452-B-32 MS	Matrix Spike	99	88	107	104
240-89452-H-32 MSD	Matrix Spike Duplicate	105	91	106	108
LCS 240-309056/4	Lab Control Sample	110	91	107	108
LCS 240-309234/4	Lab Control Sample	104	87	102	102
LCS 240-309421/4	Lab Control Sample	100	84	101	99
MB 240-309056/6	Method Blank	100	70	100	101
MB 240-309234/6	Method Blank	104	80	103	104
MB 240-309421/6	Method Blank	111	82	114	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89451-1	AMW-19 (20171213)	68	35	65	60	22	83
240-89451-2	DUP-01 (20171213)	69	34	56	55	22	87
240-89451-3	AMW-25 (20171214)	61	41	72	58	24	79
240-89451-4	AMW-20 (20171214)	62	30	8 X	52	19	79
240-89451-4 - RE	AMW-20 (20171214)	67	36	79	56	25	98
240-89451-5	DUP-02 (20171214)	57	28	8 X	48	16	79

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	TBP (28-120)	NBZ (32-120)	PHL (10-120)	TPHL (23-127)
240-89451-5 - RE	DUP-02 (20171214)	65	35	80	55	23	95
240-89451-6	AMW-24 (20171214)	80	44	68	66	28	99
240-89451-7	AMW-23B (20171214)	55	26	2 X	46	15	74
240-89451-7 - RE	AMW-23B (20171214)	63	32	73	53	21	102
240-89451-7 MS	AMW-23B (20171214)	76	39	78	68	24	75
240-89451-7 MS - RE	AMW-23B (20171214)	93	50	112	77	33	97
240-89451-7 MSD	AMW-23B (20171214)	77	33	79	70	20	68
240-89451-7 MSD - RE	AMW-23B (20171214)	84	42	104	73	28	89
240-89451-8	AMW-23 (20171214)	72	36	47	60	22	85
LCS 240-308397/20-A	Lab Control Sample	79	50	85	76	32	81
LCS 240-308680/17-A	Lab Control Sample	80	44	88	75	28	88
LCS 240-309109/13-A	Lab Control Sample	92	55	100	80	36	100
MB 240-308397/19-A	Method Blank	79	42	73	68	26	88
MB 240-308680/16-A	Method Blank	73	46	71	67	30	88
MB 240-309109/12-A	Method Blank	84	45	83	71	31	95

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (10-120)	TCX1 (22-120)
240-89451-1	AMW-19 (20171213)	76	65
240-89451-2	DUP-01 (20171213)	65	67
LCS 240-308318/16-A	Lab Control Sample	88	63
MB 240-308318/15-A	Method Blank	65	60

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (10-120)	TCX2 (22-120)
240-89451-3	AMW-25 (20171214)	54	67
240-89451-4	AMW-20 (20171214)	70	91
240-89451-5	DUP-02 (20171214)	73	82
240-89451-6	AMW-24 (20171214)	69	77
240-89451-7	AMW-23B (20171214)	60	64

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2 (10-120)	TCX2 (22-120)
240-89451-7 MS	AMW-23B (20171214)	71	80
240-89451-7 MSD	AMW-23B (20171214)	79	85
240-89451-8	AMW-23 (20171214)	67	68
LCS 240-308637/19-A	Lab Control Sample	78	82
MB 240-308637/18-A	Method Blank	67	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-309056/6

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/26/17 11:49	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/26/17 11:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/26/17 11:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/26/17 11:49	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/26/17 11:49	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/26/17 11:49	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/26/17 11:49	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/26/17 11:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/26/17 11:49	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/26/17 11:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/26/17 11:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 11:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/26/17 11:49	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/26/17 11:49	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/26/17 11:49	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/26/17 11:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/26/17 11:49	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/26/17 11:49	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/26/17 11:49	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/26/17 11:49	1
Allyl chloride	ND		2.0	0.38	ug/L			12/26/17 11:49	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/26/17 11:49	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/26/17 11:49	1
2-Hexanone	ND		10	1.2	ug/L			12/26/17 11:49	1
Bromobenzene	ND		1.0	0.31	ug/L			12/26/17 11:49	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/26/17 11:49	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/26/17 11:49	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/26/17 11:49	1
Acetone	ND		10	1.8	ug/L			12/26/17 11:49	1
Benzene	ND		1.0	0.28	ug/L			12/26/17 11:49	1
Bromoform	ND		1.0	0.43	ug/L			12/26/17 11:49	1
Bromomethane	ND		1.0	0.42	ug/L			12/26/17 11:49	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/26/17 11:49	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/26/17 11:49	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/26/17 11:49	1
Chloroethane	ND		1.0	0.41	ug/L			12/26/17 11:49	1
Chloroform	ND		1.0	0.31	ug/L			12/26/17 11:49	1
Chloromethane	ND		1.0	0.43	ug/L			12/26/17 11:49	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/26/17 11:49	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/26/17 11:49	1
Cyclohexane	ND		1.0	0.44	ug/L			12/26/17 11:49	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/26/17 11:49	1
Dibromomethane	ND		1.0	0.46	ug/L			12/26/17 11:49	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/26/17 11:49	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/26/17 11:49	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/26/17 11:49	1
Ethyl ether	ND		2.0	0.35	ug/L			12/26/17 11:49	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/26/17 11:49	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309056/6

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/26/17 11:49	1
Naphthalene	ND		1.0	0.25	ug/L			12/26/17 11:49	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/26/17 11:49	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/26/17 11:49	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/26/17 11:49	1
Methyl acetate	ND		10	1.4	ug/L			12/26/17 11:49	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/26/17 11:49	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/26/17 11:49	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/26/17 11:49	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/26/17 11:49	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/26/17 11:49	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/26/17 11:49	1
o-Xylene	ND		1.0	0.28	ug/L			12/26/17 11:49	1
Styrene	ND		1.0	0.23	ug/L			12/26/17 11:49	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/26/17 11:49	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/26/17 11:49	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/26/17 11:49	1
Toluene	ND		1.0	0.23	ug/L			12/26/17 11:49	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/26/17 11:49	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/26/17 11:49	1
Trichloroethene	ND		1.0	0.33	ug/L			12/26/17 11:49	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/26/17 11:49	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/26/17 11:49	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/26/17 11:49	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/26/17 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 138		12/26/17 11:49	1
4-Bromofluorobenzene (Surr)	70		69 - 120		12/26/17 11:49	1
Toluene-d8 (Surr)	100		73 - 120		12/26/17 11:49	1
Dibromofluoromethane (Surr)	101		69 - 124		12/26/17 11:49	1

Lab Sample ID: LCS 240-309056/4

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	73 - 136
1,1,1-Trichloroethane	10.0	10.9		ug/L		109	64 - 147
1,1,2,2-Tetrachloroethane	10.0	12.0		ug/L		120	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.6		ug/L		116	65 - 144
1,1,2-Trichloroethane	10.0	11.9		ug/L		119	76 - 121
1,1-Dichloroethane	10.0	10.6		ug/L		106	74 - 120
1,1-Dichloroethene	10.0	10.7		ug/L		107	65 - 127
1,1-Dichloropropene	10.0	11.2		ug/L		112	80 - 122
1,2,3-Trichlorobenzene	10.0	9.37		ug/L		94	31 - 144
1,2,3-Trichloropropane	10.0	11.5		ug/L		115	53 - 134

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309056/4

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	7.84		ug/L		78	34 - 141
1,2,4-Trimethylbenzene	10.0	9.28		ug/L		93	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.1		ug/L		101	50 - 130
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,2-Dichloroethane	10.0	10.8		ug/L		108	68 - 133
1,2-Dichloropropane	10.0	11.1		ug/L		111	78 - 127
1,3,5-Trimethylbenzene	10.0	9.24		ug/L		92	79 - 120
1,3-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120
1,3-Dichloropropane	10.0	11.1		ug/L		111	71 - 124
1,4-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120
Allyl chloride	10.0	9.67		ug/L		97	57 - 143
2,2-Dichloropropane	10.0	10.8		ug/L		108	32 - 178
2-Chlorotoluene	10.0	9.97		ug/L		100	80 - 120
2-Hexanone	20.0	18.8		ug/L		94	28 - 169
Bromobenzene	10.0	10.3		ug/L		103	73 - 120
Bromochloromethane	10.0	11.2		ug/L		112	78 - 120
4-Chlorotoluene	10.0	10.5		ug/L		105	79 - 120
p-Isopropyltoluene	10.0	8.38		ug/L		84	78 - 125
Acetone	20.0	16.3		ug/L		81	35 - 131
Benzene	10.0	10.5		ug/L		105	79 - 120
Bromoform	10.0	8.78		ug/L		88	55 - 145
Bromomethane	10.0	8.50		ug/L		85	17 - 158
Carbon disulfide	10.0	11.5		ug/L		115	49 - 141
Carbon tetrachloride	10.0	11.8		ug/L		118	55 - 171
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	9.50		ug/L		95	10 - 149
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	9.11		ug/L		91	59 - 124
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	77 - 120
cis-1,3-Dichloropropene	10.0	9.81		ug/L		98	75 - 120
Cyclohexane	10.0	12.0		ug/L		120	66 - 135
Hexachlorobutadiene	10.0	6.57		ug/L		66	36 - 146
Dibromomethane	10.0	10.7		ug/L		107	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	79 - 125
Dichlorodifluoromethane	10.0	11.1		ug/L		111	42 - 141
Dichlorofluoromethane	10.0	8.16		ug/L		82	28 - 138
Ethyl ether	10.0	10.2		ug/L		102	72 - 125
Ethylbenzene	10.0	9.99		ug/L		100	80 - 120
1,2-Dibromoethane	10.0	10.4		ug/L		104	80 - 120
Naphthalene	10.0	8.88		ug/L		89	31 - 127
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
n-Butylbenzene	10.0	7.42		ug/L		74	60 - 137
Isopropylbenzene	10.0	9.13		ug/L		91	80 - 128
Methyl acetate	20.0	25.2		ug/L		126	63 - 137
N-Propylbenzene	10.0	10.0		ug/L		100	76 - 120
2-Butanone (MEK)	20.0	21.2		ug/L		106	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/L		103	53 - 144
sec-Butylbenzene	10.0	8.42		ug/L		84	76 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309056/4

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert butyl ether	10.0	10.5		ug/L		105	73 - 120
Methylene Chloride	10.0	10.9		ug/L		109	64 - 140
o-Xylene	10.0	9.80		ug/L		98	80 - 120
Styrene	10.0	9.16		ug/L		92	80 - 121
tert-Butylbenzene	10.0	8.70		ug/L		87	79 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	80 - 122
Tetrahydrofuran	20.0	24.5		ug/L		122	63 - 131
Toluene	10.0	10.6		ug/L		106	78 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 124
trans-1,3-Dichloropropene	10.0	9.49		ug/L		95	67 - 120
Trichloroethene	10.0	11.0		ug/L		110	76 - 124
Trichlorofluoromethane	10.0	9.71		ug/L		97	27 - 176
Vinyl chloride	10.0	9.68		ug/L		97	65 - 124
Methylcyclohexane	10.0	10.3		ug/L		103	63 - 141
Chlorodibromomethane	10.0	9.71		ug/L		97	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		61 - 138
4-Bromofluorobenzene (Surr)	91		69 - 120
Toluene-d8 (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	108		69 - 124

Lab Sample ID: 240-89452-B-32 MS

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	50.1		ug/L		100	67 - 142
1,1,1-Trichloroethane	ND		50.0	48.5		ug/L		97	57 - 156
1,1,2,2-Tetrachloroethane	ND		50.0	54.9		ug/L		110	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	34.2		ug/L		68	58 - 137
1,1,2-Trichloroethane	ND		50.0	61.1		ug/L		122	68 - 127
1,1-Dichloroethane	ND		50.0	51.2		ug/L		102	69 - 122
1,1-Dichloroethene	ND		50.0	46.2		ug/L		92	62 - 127
1,1-Dichloropropene	ND		50.0	44.3		ug/L		89	55 - 136
1,2,3-Trichlorobenzene	ND		50.0	40.4		ug/L		81	40 - 139
1,2,3-Trichloropropane	ND		50.0	58.7		ug/L		117	41 - 152
1,2,4-Trichlorobenzene	ND		50.0	34.7		ug/L		69	26 - 138
1,2,4-Trimethylbenzene	ND		50.0	38.1		ug/L		76	64 - 120
1,2-Dibromo-3-Chloropropane	ND		50.0	38.6		ug/L		77	48 - 130
1,2-Dichlorobenzene	ND		50.0	43.5		ug/L		87	70 - 120
1,2-Dichloroethane	ND		50.0	55.6		ug/L		111	64 - 138
1,2-Dichloropropane	ND		50.0	53.3		ug/L		107	72 - 131
1,3,5-Trimethylbenzene	ND		50.0	37.1		ug/L		74	67 - 120
1,3-Dichlorobenzene	ND		50.0	41.5		ug/L		83	71 - 120
1,3-Dichloropropane	ND		50.0	56.8		ug/L		114	58 - 137
1,4-Dichlorobenzene	ND		50.0	43.3		ug/L		87	72 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-B-32 MS

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		50.0	43.7		ug/L		87	34 - 153
2-Chlorotoluene	ND		50.0	41.8		ug/L		84	52 - 134
2-Hexanone	ND		100	87.9		ug/L		88	21 - 184
Bromobenzene	ND		50.0	45.6		ug/L		91	59 - 131
Bromochloromethane	ND		50.0	52.2		ug/L		104	66 - 132
4-Chlorotoluene	ND		50.0	42.8		ug/L		86	52 - 133
p-Isopropyltoluene	ND	F1	50.0	30.9	F1	ug/L		62	70 - 120
Acetone	ND		100	68.6		ug/L		69	19 - 133
Benzene	ND		50.0	51.6		ug/L		103	69 - 127
Bromoform	ND		50.0	40.8		ug/L		82	61 - 135
Bromomethane	ND		50.0	46.1		ug/L		92	10 - 148
Carbon disulfide	ND		50.0	47.0		ug/L		94	46 - 143
Carbon tetrachloride	ND		50.0	45.7		ug/L		91	53 - 175
Chlorobenzene	ND		50.0	49.3		ug/L		99	76 - 120
Chloroethane	ND		50.0	49.6		ug/L		99	10 - 141
Chloroform	ND		50.0	54.0		ug/L		108	74 - 125
Chloromethane	ND		50.0	47.9		ug/L		96	34 - 127
cis-1,2-Dichloroethene	37		50.0	90.5		ug/L		107	69 - 127
cis-1,3-Dichloropropene	ND		50.0	46.3		ug/L		93	68 - 120
Hexachlorobutadiene	ND		50.0	23.5		ug/L		47	30 - 134
Dibromomethane	ND		50.0	52.5		ug/L		105	73 - 120
Bromodichloromethane	ND		50.0	50.6		ug/L		101	75 - 128
Dichlorodifluoromethane	ND		50.0	35.3		ug/L		71	45 - 130
Dichlorofluoromethane	ND		50.0	41.9		ug/L		84	36 - 161
Ethyl ether	ND		50.0	48.1		ug/L		96	65 - 124
Ethylbenzene	ND		50.0	42.0		ug/L		84	72 - 121
1,2-Dibromoethane	ND		50.0	54.0		ug/L		108	73 - 121
Naphthalene	ND		50.0	40.8		ug/L		82	28 - 150
m-Xylene & p-Xylene	ND		50.0	41.8		ug/L		84	70 - 121
n-Butylbenzene	ND		50.0	27.8		ug/L		56	38 - 133
Isopropylbenzene	ND		50.0	37.2		ug/L		74	70 - 132
N-Propylbenzene	ND		50.0	36.7		ug/L		73	50 - 134
2-Butanone (MEK)	ND		100	99.5		ug/L		99	34 - 153
4-Methyl-2-pentanone (MIBK)	ND		100	97.7		ug/L		98	53 - 147
sec-Butylbenzene	ND		50.0	30.8		ug/L		62	43 - 133
Methyl tert butyl ether	ND		50.0	50.3		ug/L		101	67 - 125
Methylene Chloride	ND		50.0	55.7		ug/L		111	52 - 137
o-Xylene	ND		50.0	45.2		ug/L		90	71 - 125
Styrene	ND		50.0	43.9		ug/L		88	74 - 125
tert-Butylbenzene	ND		50.0	32.7		ug/L		65	48 - 131
Tetrachloroethene	ND		50.0	40.3		ug/L		81	69 - 126
Tetrahydrofuran	ND		100	114		ug/L		114	40 - 128
Toluene	ND		50.0	49.6		ug/L		99	69 - 125
trans-1,2-Dichloroethene	56		50.0	102		ug/L		92	66 - 131
trans-1,3-Dichloropropene	ND		50.0	43.4		ug/L		87	59 - 120
Trichloroethene	140		50.0	178		ug/L		74	68 - 129
Trichlorofluoromethane	ND		50.0	35.6		ug/L		71	28 - 172
Vinyl chloride	ND		50.0	46.1		ug/L		92	55 - 123

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-B-32 MS

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	ND		50.0	47.3		ug/L		95	62 - 131
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		61 - 138						
4-Bromofluorobenzene (Surr)	88		69 - 120						
Toluene-d8 (Surr)	107		73 - 120						
Dibromofluoromethane (Surr)	104		69 - 124						

Lab Sample ID: 240-89452-H-32 MSD

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.5		ug/L		99	67 - 142	1	18
1,1,1-Trichloroethane	ND		50.0	52.1		ug/L		104	57 - 156	7	13
1,1,2,2-Tetrachloroethane	ND		50.0	59.9		ug/L		120	51 - 123	9	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	41.6		ug/L		83	58 - 137	20	35
1,1,2-Trichloroethane	ND		50.0	57.9		ug/L		116	68 - 127	5	11
1,1-Dichloroethane	ND		50.0	52.0		ug/L		104	69 - 122	2	11
1,1-Dichloroethene	ND		50.0	46.0		ug/L		92	62 - 127	0	14
1,1-Dichloropropene	ND		50.0	47.8		ug/L		96	55 - 136	8	35
1,2,3-Trichlorobenzene	ND		50.0	45.0		ug/L		90	40 - 139	11	35
1,2,3-Trichloropropane	ND		50.0	61.5		ug/L		123	41 - 152	5	12
1,2,4-Trichlorobenzene	ND		50.0	36.2		ug/L		72	26 - 138	4	35
1,2,4-Trimethylbenzene	ND		50.0	41.3		ug/L		83	64 - 120	8	22
1,2-Dibromo-3-Chloropropane	ND		50.0	50.2		ug/L		100	48 - 130	26	31
1,2-Dichlorobenzene	ND		50.0	46.8		ug/L		94	70 - 120	8	19
1,2-Dichloroethane	ND		50.0	53.8		ug/L		108	64 - 138	3	11
1,2-Dichloropropane	ND		50.0	53.5		ug/L		107	72 - 131	0	12
1,3,5-Trimethylbenzene	ND		50.0	40.6		ug/L		81	67 - 120	9	25
1,3-Dichlorobenzene	ND		50.0	44.6		ug/L		89	71 - 120	7	18
1,3-Dichloropropane	ND		50.0	56.1		ug/L		112	58 - 137	1	35
1,4-Dichlorobenzene	ND		50.0	45.2		ug/L		90	72 - 120	4	17
2,2-Dichloropropane	ND		50.0	44.4		ug/L		89	34 - 153	1	35
2-Chlorotoluene	ND		50.0	46.5		ug/L		93	52 - 134	10	35
2-Hexanone	ND		100	91.5		ug/L		91	21 - 184	4	12
Bromobenzene	ND		50.0	48.3		ug/L		97	59 - 131	6	35
Bromochloromethane	ND		50.0	56.5		ug/L		113	66 - 132	8	15
4-Chlorotoluene	ND		50.0	46.1		ug/L		92	52 - 133	7	35
p-Isopropyltoluene	ND	F1	50.0	36.4		ug/L		73	70 - 120	16	22
Acetone	ND		100	83.1		ug/L		83	19 - 133	19	35
Benzene	ND		50.0	51.1		ug/L		102	69 - 127	1	10
Bromoform	ND		50.0	40.6		ug/L		81	61 - 135	0	13
Bromomethane	ND		50.0	48.7		ug/L		97	10 - 148	5	35
Carbon disulfide	ND		50.0	47.1		ug/L		94	46 - 143	0	18
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	53 - 175	11	17
Chlorobenzene	ND		50.0	48.1		ug/L		96	76 - 120	2	12

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-H-32 MSD

Matrix: Water

Analysis Batch: 309056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		50.0	47.9		ug/L		96	10 - 141	3	35
Chloroform	ND		50.0	54.6		ug/L		109	74 - 125	1	11
Chloromethane	ND		50.0	48.5		ug/L		97	34 - 127	1	25
cis-1,2-Dichloroethene	37		50.0	89.3		ug/L		105	69 - 127	1	11
cis-1,3-Dichloropropene	ND		50.0	46.1		ug/L		92	68 - 120	1	13
Hexachlorobutadiene	ND		50.0	31.4		ug/L		63	30 - 134	29	35
Dibromomethane	ND		50.0	54.3		ug/L		109	73 - 120	3	16
Bromodichloromethane	ND		50.0	51.7		ug/L		103	75 - 128	2	13
Dichlorodifluoromethane	ND		50.0	46.1		ug/L		92	45 - 130	27	34
Dichlorofluoromethane	ND		50.0	44.9		ug/L		90	36 - 161	7	35
Ethyl ether	ND		50.0	50.4		ug/L		101	65 - 124	5	11
Ethylbenzene	ND		50.0	45.4		ug/L		91	72 - 121	8	15
1,2-Dibromoethane	ND		50.0	51.4		ug/L		103	73 - 121	5	12
Naphthalene	ND		50.0	43.3		ug/L		87	28 - 150	6	35
m-Xylene & p-Xylene	ND		50.0	45.3		ug/L		91	70 - 121	8	15
n-Butylbenzene	ND		50.0	31.1		ug/L		62	38 - 133	11	35
Isopropylbenzene	ND		50.0	40.7		ug/L		81	70 - 132	9	16
N-Propylbenzene	ND		50.0	41.1		ug/L		82	50 - 134	11	35
2-Butanone (MEK)	ND		100	101		ug/L		101	34 - 153	1	23
4-Methyl-2-pentanone (MIBK)	ND		100	106		ug/L		106	53 - 147	8	16
sec-Butylbenzene	ND		50.0	36.5		ug/L		73	43 - 133	17	35
Methyl tert butyl ether	ND		50.0	52.7		ug/L		105	67 - 125	5	12
Methylene Chloride	ND		50.0	54.1		ug/L		108	52 - 137	3	12
o-Xylene	ND		50.0	47.0		ug/L		94	71 - 125	4	15
Styrene	ND		50.0	43.5		ug/L		87	74 - 125	1	14
tert-Butylbenzene	ND		50.0	36.8		ug/L		74	48 - 131	12	35
Tetrachloroethene	ND		50.0	44.4		ug/L		89	69 - 126	10	18
Tetrahydrofuran	ND		100	118		ug/L		118	40 - 128	4	15
Toluene	ND		50.0	49.9		ug/L		100	69 - 125	1	14
trans-1,2-Dichloroethene	56		50.0	105		ug/L		97	66 - 131	3	11
trans-1,3-Dichloropropene	ND		50.0	44.5		ug/L		89	59 - 120	2	14
Trichloroethene	140		50.0	186		ug/L		89	68 - 129	4	12
Trichlorofluoromethane	ND		50.0	42.0		ug/L		84	28 - 172	16	26
Vinyl chloride	ND		50.0	47.3		ug/L		95	55 - 123	3	12
Chlorodibromomethane	ND		50.0	48.5		ug/L		97	62 - 131	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		61 - 138
4-Bromofluorobenzene (Surr)	91		69 - 120
Toluene-d8 (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	108		69 - 124

Lab Sample ID: MB 240-309234/6

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/27/17 11:51	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309234/6

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/27/17 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/27/17 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/27/17 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/27/17 11:51	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/27/17 11:51	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/27/17 11:51	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/27/17 11:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/27/17 11:51	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/27/17 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/27/17 11:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 11:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/27/17 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/27/17 11:51	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/27/17 11:51	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/27/17 11:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/27/17 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/27/17 11:51	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/27/17 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/27/17 11:51	1
Allyl chloride	ND		2.0	0.38	ug/L			12/27/17 11:51	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/27/17 11:51	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/27/17 11:51	1
2-Hexanone	ND		10	1.2	ug/L			12/27/17 11:51	1
Bromobenzene	ND		1.0	0.31	ug/L			12/27/17 11:51	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/27/17 11:51	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/27/17 11:51	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/27/17 11:51	1
Acetone	ND		10	1.8	ug/L			12/27/17 11:51	1
Benzene	ND		1.0	0.28	ug/L			12/27/17 11:51	1
Bromoform	ND		1.0	0.43	ug/L			12/27/17 11:51	1
Bromomethane	ND		1.0	0.42	ug/L			12/27/17 11:51	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/27/17 11:51	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/27/17 11:51	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/27/17 11:51	1
Chloroethane	ND		1.0	0.41	ug/L			12/27/17 11:51	1
Chloroform	ND		1.0	0.31	ug/L			12/27/17 11:51	1
Chloromethane	ND		1.0	0.43	ug/L			12/27/17 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/27/17 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/27/17 11:51	1
Cyclohexane	ND		1.0	0.44	ug/L			12/27/17 11:51	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/27/17 11:51	1
Dibromomethane	ND		1.0	0.46	ug/L			12/27/17 11:51	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/27/17 11:51	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/27/17 11:51	1
Dichlorofluoromethane	ND		2.0	0.43	ug/L			12/27/17 11:51	1
Ethyl ether	ND		2.0	0.35	ug/L			12/27/17 11:51	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/27/17 11:51	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/27/17 11:51	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309234/6

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.25	ug/L			12/27/17 11:51	1
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/27/17 11:51	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/27/17 11:51	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/27/17 11:51	1
Methyl acetate	ND		10	1.4	ug/L			12/27/17 11:51	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/27/17 11:51	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/27/17 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.71	ug/L			12/27/17 11:51	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/27/17 11:51	1
Methyl tert butyl ether	ND		1.0	0.27	ug/L			12/27/17 11:51	1
Methylene Chloride	1.01		1.0	0.53	ug/L			12/27/17 11:51	1
o-Xylene	ND		1.0	0.28	ug/L			12/27/17 11:51	1
Styrene	ND		1.0	0.23	ug/L			12/27/17 11:51	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/27/17 11:51	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/27/17 11:51	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/27/17 11:51	1
Toluene	ND		1.0	0.23	ug/L			12/27/17 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/27/17 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/27/17 11:51	1
Trichloroethene	ND		1.0	0.33	ug/L			12/27/17 11:51	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/27/17 11:51	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/27/17 11:51	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/27/17 11:51	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/27/17 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		12/27/17 11:51	1
4-Bromofluorobenzene (Surr)	80		69 - 120		12/27/17 11:51	1
Toluene-d8 (Surr)	103		73 - 120		12/27/17 11:51	1
Dibromofluoromethane (Surr)	104		69 - 124		12/27/17 11:51	1

Lab Sample ID: LCS 240-309234/4

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.64		ug/L		96	73 - 136
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	64 - 147
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.0		ug/L		110	65 - 144
1,1,2-Trichloroethane	10.0	11.3		ug/L		113	76 - 121
1,1-Dichloroethane	10.0	10.2		ug/L		102	74 - 120
1,1-Dichloroethene	10.0	10.4		ug/L		104	65 - 127
1,1-Dichloropropene	10.0	10.4		ug/L		104	80 - 122
1,2,3-Trichlorobenzene	10.0	8.97		ug/L		90	31 - 144
1,2,3-Trichloropropane	10.0	11.2		ug/L		112	53 - 134
1,2,4-Trichlorobenzene	10.0	7.75		ug/L		77	34 - 141

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309234/4

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	10.0	9.02		ug/L		90	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.01		ug/L		90	50 - 130
1,2-Dichlorobenzene	10.0	9.30		ug/L		93	80 - 120
1,2-Dichloroethane	10.0	10.9		ug/L		109	68 - 133
1,2-Dichloropropane	10.0	10.5		ug/L		105	78 - 127
1,3,5-Trimethylbenzene	10.0	8.83		ug/L		88	79 - 120
1,3-Dichlorobenzene	10.0	9.12		ug/L		91	80 - 120
1,3-Dichloropropane	10.0	10.2		ug/L		102	71 - 124
1,4-Dichlorobenzene	10.0	9.07		ug/L		91	80 - 120
Allyl chloride	10.0	9.24		ug/L		92	57 - 143
2,2-Dichloropropane	10.0	10.2		ug/L		102	32 - 178
2-Chlorotoluene	10.0	9.61		ug/L		96	80 - 120
2-Hexanone	20.0	15.9		ug/L		80	28 - 169
Bromobenzene	10.0	9.56		ug/L		96	73 - 120
Bromochloromethane	10.0	9.96		ug/L		100	78 - 120
4-Chlorotoluene	10.0	9.53		ug/L		95	79 - 120
p-Isopropyltoluene	10.0	8.42		ug/L		84	78 - 125
Acetone	20.0	15.2		ug/L		76	35 - 131
Benzene	10.0	10.2		ug/L		102	79 - 120
Bromoform	10.0	8.14		ug/L		81	55 - 145
Bromomethane	10.0	8.76		ug/L		88	17 - 158
Carbon disulfide	10.0	11.6		ug/L		116	49 - 141
Carbon tetrachloride	10.0	11.3		ug/L		113	55 - 171
Chlorobenzene	10.0	9.86		ug/L		99	80 - 120
Chloroethane	10.0	9.68		ug/L		97	10 - 149
Chloroform	10.0	10.4		ug/L		104	80 - 120
Chloromethane	10.0	8.97		ug/L		90	59 - 124
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	77 - 120
cis-1,3-Dichloropropene	10.0	9.82		ug/L		98	75 - 120
Cyclohexane	10.0	11.5		ug/L		115	66 - 135
Hexachlorobutadiene	10.0	7.10		ug/L		71	36 - 146
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	9.94		ug/L		99	79 - 125
Dichlorodifluoromethane	10.0	10.1		ug/L		101	42 - 141
Dichlorofluoromethane	10.0	8.08		ug/L		81	28 - 138
Ethyl ether	10.0	9.72		ug/L		97	72 - 125
Ethylbenzene	10.0	9.39		ug/L		94	80 - 120
1,2-Dibromoethane	10.0	9.99		ug/L		100	80 - 120
Naphthalene	10.0	8.60		ug/L		86	31 - 127
m-Xylene & p-Xylene	10.0	9.42		ug/L		94	80 - 120
n-Butylbenzene	10.0	7.55		ug/L		76	60 - 137
Isopropylbenzene	10.0	8.53		ug/L		85	80 - 128
Methyl acetate	20.0	23.6		ug/L		118	63 - 137
N-Propylbenzene	10.0	9.60		ug/L		96	76 - 120
2-Butanone (MEK)	20.0	20.0		ug/L		100	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/L		96	53 - 144
sec-Butylbenzene	10.0	8.22		ug/L		82	76 - 124
Methyl tert butyl ether	10.0	9.56		ug/L		96	73 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309234/4

Matrix: Water

Analysis Batch: 309234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	12.0		ug/L		120	64 - 140
o-Xylene	10.0	9.15		ug/L		92	80 - 120
Styrene	10.0	8.91		ug/L		89	80 - 121
tert-Butylbenzene	10.0	8.05		ug/L		81	79 - 120
Tetrachloroethene	10.0	9.51		ug/L		95	80 - 122
Tetrahydrofuran	20.0	21.1		ug/L		105	63 - 131
Toluene	10.0	10.3		ug/L		103	78 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	74 - 124
trans-1,3-Dichloropropene	10.0	9.06		ug/L		91	67 - 120
Trichloroethene	10.0	9.81		ug/L		98	76 - 124
Trichlorofluoromethane	10.0	9.61		ug/L		96	27 - 176
Vinyl chloride	10.0	9.78		ug/L		98	65 - 124
Methylcyclohexane	10.0	9.72		ug/L		97	63 - 141
Chlorodibromomethane	10.0	9.29		ug/L		93	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		61 - 138
4-Bromofluorobenzene (Surr)	87		69 - 120
Toluene-d8 (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	102		69 - 124

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 309234

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	9.52		ug/L		95	67 - 142
1,1,1-Trichloroethane	ND		10.0	10.4		ug/L		104	57 - 156
1,1,2,2-Tetrachloroethane	ND		10.0	11.3		ug/L		113	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	8.36		ug/L		84	58 - 137
1,1,2-Trichloroethane	ND		10.0	11.4		ug/L		114	68 - 127
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	69 - 122
1,1-Dichloroethene	ND		10.0	10.4		ug/L		104	62 - 127
1,1-Dichloropropene	ND		10.0	9.90		ug/L		99	55 - 136
1,2,3-Trichlorobenzene	ND		10.0	8.62		ug/L		86	40 - 139
1,2,3-Trichloropropane	ND		10.0	12.4		ug/L		124	41 - 152
1,2,4-Trichlorobenzene	ND		10.0	7.62		ug/L		76	26 - 138
1,2,4-Trimethylbenzene	ND		10.0	8.53		ug/L		85	64 - 120
1,2-Dibromo-3-Chloropropane	ND		10.0	8.03		ug/L		80	48 - 130
1,2-Dichlorobenzene	ND		10.0	9.20		ug/L		92	70 - 120
1,2-Dichloroethane	ND		10.0	10.9		ug/L		109	64 - 138
1,2-Dichloropropane	ND		10.0	10.7		ug/L		107	72 - 131
1,3,5-Trimethylbenzene	ND		10.0	8.61		ug/L		86	67 - 120
1,3-Dichlorobenzene	ND		10.0	8.88		ug/L		89	71 - 120
1,3-Dichloropropane	ND		10.0	10.9		ug/L		109	58 - 137
1,4-Dichlorobenzene	ND		10.0	9.29		ug/L		93	72 - 120
Allyl chloride	ND		10.0	8.63		ug/L		86	55 - 137

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 309234

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	ND		10.0	9.93		ug/L		99	34 - 153
2-Chlorotoluene	ND		10.0	9.12		ug/L		91	52 - 134
2-Hexanone	ND		20.0	16.7		ug/L		83	21 - 184
Bromobenzene	ND		10.0	9.52		ug/L		95	59 - 131
Bromochloromethane	ND		10.0	11.1		ug/L		111	66 - 132
4-Chlorotoluene	ND		10.0	9.26		ug/L		93	52 - 133
p-Isopropyltoluene	ND		10.0	7.49		ug/L		75	70 - 120
Acetone	2.8	J	20.0	16.6		ug/L		69	19 - 133
Benzene	ND		10.0	10.3		ug/L		103	69 - 127
Bromoform	ND		10.0	7.15		ug/L		72	61 - 135
Bromomethane	ND	F2	10.0	7.97		ug/L		80	10 - 148
Carbon disulfide	ND		10.0	11.1		ug/L		111	46 - 143
Carbon tetrachloride	ND		10.0	10.1		ug/L		101	53 - 175
Chlorobenzene	ND		10.0	10.2		ug/L		102	76 - 120
Chloroethane	ND		10.0	11.3		ug/L		113	10 - 141
Chloroform	ND		10.0	10.5		ug/L		105	74 - 125
Chloromethane	ND		10.0	8.69		ug/L		87	34 - 127
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	69 - 127
cis-1,3-Dichloropropene	ND		10.0	8.26		ug/L		83	68 - 120
Cyclohexane	ND		10.0	8.80		ug/L		88	56 - 135
Hexachlorobutadiene	ND		10.0	6.21		ug/L		62	30 - 134
Dibromomethane	ND		10.0	10.4		ug/L		104	73 - 120
Bromodichloromethane	ND		10.0	9.75		ug/L		97	75 - 128
Dichlorodifluoromethane	ND		10.0	10.4		ug/L		104	45 - 130
Dichlorofluoromethane	ND		10.0	9.56		ug/L		96	36 - 161
Ethyl ether	ND		10.0	9.55		ug/L		96	65 - 124
Ethylbenzene	ND		10.0	9.12		ug/L		91	72 - 121
1,2-Dibromoethane	ND		10.0	9.69		ug/L		97	73 - 121
Naphthalene	ND		10.0	8.65		ug/L		86	28 - 150
m-Xylene & p-Xylene	ND		10.0	9.06		ug/L		91	70 - 121
n-Butylbenzene	ND		10.0	6.88		ug/L		69	38 - 133
Isopropylbenzene	ND		10.0	8.37		ug/L		84	70 - 132
Methyl acetate	ND		20.0	22.1		ug/L		110	52 - 139
N-Propylbenzene	ND		10.0	9.28		ug/L		93	50 - 134
2-Butanone (MEK)	ND		20.0	18.4		ug/L		92	34 - 153
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.2		ug/L		91	53 - 147
sec-Butylbenzene	ND		10.0	7.72		ug/L		77	43 - 133
Methyl tert butyl ether	ND		10.0	9.76		ug/L		98	67 - 125
Methylene Chloride	ND		10.0	11.4		ug/L		114	52 - 137
o-Xylene	ND		10.0	9.24		ug/L		92	71 - 125
Styrene	ND		10.0	8.72		ug/L		87	74 - 125
tert-Butylbenzene	ND		10.0	7.42		ug/L		74	48 - 131
Tetrachloroethene	ND		10.0	9.38		ug/L		94	69 - 126
Tetrahydrofuran	ND		20.0	20.5		ug/L		102	40 - 128
Toluene	ND		10.0	10.2		ug/L		102	69 - 125
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	66 - 131
trans-1,3-Dichloropropene	ND		10.0	8.12		ug/L		81	59 - 120
Trichloroethene	ND		10.0	9.85		ug/L		98	68 - 129

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 309234

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		10.0	8.93		ug/L		89	28 - 172
Vinyl chloride	ND		10.0	10.5		ug/L		105	55 - 123
Methylcyclohexane	ND		10.0	6.83		ug/L		68	46 - 139
Chlorodibromomethane	ND		10.0	8.61		ug/L		86	62 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		61 - 138
4-Bromofluorobenzene (Surr)	96		69 - 120
Toluene-d8 (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	110		69 - 124

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 309234

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	9.78		ug/L		98	67 - 142	3	18
1,1,1-Trichloroethane	ND		10.0	10.5		ug/L		105	57 - 156	1	13
1,1,2,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	51 - 123	4	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	8.63		ug/L		86	58 - 137	3	35
1,1,2-Trichloroethane	ND		10.0	11.3		ug/L		113	68 - 127	1	11
1,1-Dichloroethane	ND		10.0	10.4		ug/L		104	69 - 122	2	11
1,1-Dichloroethene	ND		10.0	9.90		ug/L		99	62 - 127	5	14
1,1-Dichloropropene	ND		10.0	10.1		ug/L		101	55 - 136	2	35
1,2,3-Trichlorobenzene	ND		10.0	8.14		ug/L		81	40 - 139	6	35
1,2,3-Trichloropropane	ND		10.0	11.2		ug/L		112	41 - 152	11	12
1,2,4-Trichlorobenzene	ND		10.0	7.08		ug/L		71	26 - 138	7	35
1,2,4-Trimethylbenzene	ND		10.0	7.90		ug/L		79	64 - 120	8	22
1,2-Dibromo-3-Chloropropane	ND		10.0	8.55		ug/L		86	48 - 130	6	31
1,2-Dichlorobenzene	ND		10.0	8.75		ug/L		88	70 - 120	5	19
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	64 - 138	1	11
1,2-Dichloropropane	ND		10.0	10.8		ug/L		108	72 - 131	0	12
1,3,5-Trimethylbenzene	ND		10.0	8.11		ug/L		81	67 - 120	6	25
1,3-Dichlorobenzene	ND		10.0	8.31		ug/L		83	71 - 120	7	18
1,3-Dichloropropane	ND		10.0	10.6		ug/L		106	58 - 137	2	35
1,4-Dichlorobenzene	ND		10.0	8.47		ug/L		85	72 - 120	9	17
Allyl chloride	ND		10.0	8.34		ug/L		83	55 - 137	3	20
2,2-Dichloropropane	ND		10.0	9.57		ug/L		96	34 - 153	4	35
2-Chlorotoluene	ND		10.0	8.61		ug/L		86	52 - 134	6	35
2-Hexanone	ND		20.0	17.6		ug/L		88	21 - 184	6	12
Bromobenzene	ND		10.0	9.08		ug/L		91	59 - 131	5	35
Bromochloromethane	ND		10.0	9.90		ug/L		99	66 - 132	11	15
4-Chlorotoluene	ND		10.0	9.03		ug/L		90	52 - 133	2	35
p-Isopropyltoluene	ND		10.0	7.16		ug/L		72	70 - 120	4	22
Acetone	2.8	J	20.0	15.7		ug/L		65	19 - 133	5	35
Benzene	ND		10.0	10.4		ug/L		104	69 - 127	1	10
Bromoform	ND		10.0	6.61		ug/L		66	61 - 135	8	13

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 309234

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND	F2	10.0	5.32	F2	ug/L		53	10 - 148	40	35
Carbon disulfide	ND		10.0	10.8		ug/L		108	46 - 143	3	18
Carbon tetrachloride	ND		10.0	9.93		ug/L		99	53 - 175	1	17
Chlorobenzene	ND		10.0	9.70		ug/L		97	76 - 120	5	12
Chloroethane	ND		10.0	8.12		ug/L		81	10 - 141	33	35
Chloroform	ND		10.0	10.6		ug/L		106	74 - 125	1	11
Chloromethane	ND		10.0	7.47		ug/L		75	34 - 127	15	25
cis-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	69 - 127	1	11
cis-1,3-Dichloropropene	ND		10.0	8.33		ug/L		83	68 - 120	1	13
Cyclohexane	ND		10.0	9.55		ug/L		96	56 - 135	8	35
Hexachlorobutadiene	ND		10.0	6.10		ug/L		61	30 - 134	2	35
Dibromomethane	ND		10.0	9.99		ug/L		100	73 - 120	5	16
Bromodichloromethane	ND		10.0	9.42		ug/L		94	75 - 128	3	13
Dichlorodifluoromethane	ND		10.0	9.64		ug/L		96	45 - 130	8	34
Dichlorofluoromethane	ND		10.0	8.57		ug/L		86	36 - 161	11	35
Ethyl ether	ND		10.0	9.40		ug/L		94	65 - 124	2	11
Ethylbenzene	ND		10.0	9.31		ug/L		93	72 - 121	2	15
1,2-Dibromoethane	ND		10.0	9.81		ug/L		98	73 - 121	1	12
Naphthalene	ND		10.0	8.42		ug/L		84	28 - 150	3	35
m-Xylene & p-Xylene	ND		10.0	9.33		ug/L		93	70 - 121	3	15
n-Butylbenzene	ND		10.0	6.66		ug/L		67	38 - 133	3	35
Isopropylbenzene	ND		10.0	8.42		ug/L		84	70 - 132	1	16
Methyl acetate	ND		20.0	22.0		ug/L		110	52 - 139	0	14
N-Propylbenzene	ND		10.0	8.69		ug/L		87	50 - 134	7	35
2-Butanone (MEK)	ND		20.0	18.7		ug/L		93	34 - 153	1	23
4-Methyl-2-pentanone (MIBK)	ND		20.0	19.1		ug/L		95	53 - 147	5	16
sec-Butylbenzene	ND		10.0	7.36		ug/L		74	43 - 133	5	35
Methyl tert butyl ether	ND		10.0	10.1		ug/L		101	67 - 125	3	12
Methylene Chloride	ND		10.0	10.3		ug/L		103	52 - 137	10	12
o-Xylene	ND		10.0	9.30		ug/L		93	71 - 125	1	15
Styrene	ND		10.0	8.80		ug/L		88	74 - 125	1	14
tert-Butylbenzene	ND		10.0	7.00		ug/L		70	48 - 131	6	35
Tetrachloroethene	ND		10.0	9.16		ug/L		92	69 - 126	2	18
Tetrahydrofuran	ND		20.0	20.9		ug/L		105	40 - 128	2	15
Toluene	ND		10.0	10.0		ug/L		100	69 - 125	2	14
trans-1,2-Dichloroethene	ND		10.0	10.1		ug/L		101	66 - 131	2	11
trans-1,3-Dichloropropene	ND		10.0	7.85		ug/L		78	59 - 120	3	14
Trichloroethene	ND		10.0	9.76		ug/L		98	68 - 129	1	12
Trichlorofluoromethane	ND		10.0	8.31		ug/L		83	28 - 172	7	26
Vinyl chloride	ND		10.0	10.3		ug/L		103	55 - 123	1	12
Methylcyclohexane	ND		10.0	7.79		ug/L		78	46 - 139	13	35
Chlorodibromomethane	ND		10.0	8.44		ug/L		84	62 - 131	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		61 - 138
4-Bromofluorobenzene (Surr)	88		69 - 120
Toluene-d8 (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	101		69 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Lab Sample ID: MB 240-309421/6
Matrix: Water
Analysis Batch: 309421

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.46	ug/L			12/28/17 12:34	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/L			12/28/17 12:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.32	ug/L			12/28/17 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.41	ug/L			12/28/17 12:34	1
1,1,2-Trichloroethane	ND		1.0	0.34	ug/L			12/28/17 12:34	1
1,1-Dichloroethane	ND		1.0	0.25	ug/L			12/28/17 12:34	1
1,1-Dichloroethene	ND		1.0	0.27	ug/L			12/28/17 12:34	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			12/28/17 12:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.35	ug/L			12/28/17 12:34	1
1,2,3-Trichloropropane	ND		1.0	0.54	ug/L			12/28/17 12:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			12/28/17 12:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 12:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.47	ug/L			12/28/17 12:34	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/28/17 12:34	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			12/28/17 12:34	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			12/28/17 12:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.24	ug/L			12/28/17 12:34	1
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			12/28/17 12:34	1
1,3-Dichloropropane	ND		1.0	0.29	ug/L			12/28/17 12:34	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			12/28/17 12:34	1
Allyl chloride	ND		2.0	0.38	ug/L			12/28/17 12:34	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			12/28/17 12:34	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			12/28/17 12:34	1
2-Hexanone	ND		10	1.2	ug/L			12/28/17 12:34	1
Bromobenzene	ND		1.0	0.31	ug/L			12/28/17 12:34	1
Bromochloromethane	ND		1.0	0.47	ug/L			12/28/17 12:34	1
4-Chlorotoluene	ND		1.0	0.23	ug/L			12/28/17 12:34	1
p-Isopropyltoluene	ND		1.0	0.29	ug/L			12/28/17 12:34	1
Acetone	ND		10	1.8	ug/L			12/28/17 12:34	1
Benzene	ND		1.0	0.28	ug/L			12/28/17 12:34	1
Bromoform	ND		1.0	0.43	ug/L			12/28/17 12:34	1
Bromomethane	ND		1.0	0.42	ug/L			12/28/17 12:34	1
Carbon disulfide	ND		1.0	0.34	ug/L			12/28/17 12:34	1
Carbon tetrachloride	ND		1.0	0.35	ug/L			12/28/17 12:34	1
Chlorobenzene	ND		1.0	0.32	ug/L			12/28/17 12:34	1
Chloroethane	ND		1.0	0.41	ug/L			12/28/17 12:34	1
Chloroform	ND		1.0	0.31	ug/L			12/28/17 12:34	1
Chloromethane	ND		1.0	0.43	ug/L			12/28/17 12:34	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/28/17 12:34	1
cis-1,3-Dichloropropene	ND		1.0	0.26	ug/L			12/28/17 12:34	1
Cyclohexane	ND		1.0	0.44	ug/L			12/28/17 12:34	1
Hexachlorobutadiene	ND		1.0	0.36	ug/L			12/28/17 12:34	1
Dibromomethane	ND		1.0	0.46	ug/L			12/28/17 12:34	1
Bromodichloromethane	ND		1.0	0.30	ug/L			12/28/17 12:34	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/28/17 12:34	1
Dichlorofluoromethane	ND		1.0	0.43	ug/L			12/28/17 12:34	1
Ethyl ether	ND		1.0	0.35	ug/L			12/28/17 12:34	1
Ethylbenzene	ND		1.0	0.26	ug/L			12/28/17 12:34	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			12/28/17 12:34	1
Naphthalene	ND		1.0	0.25	ug/L			12/28/17 12:34	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309421/6

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.24	ug/L			12/28/17 12:34	1
n-Butylbenzene	ND		1.0	0.21	ug/L			12/28/17 12:34	1
Isopropylbenzene	ND		1.0	0.21	ug/L			12/28/17 12:34	1
Methyl acetate	ND		10	1.4	ug/L			12/28/17 12:34	1
N-Propylbenzene	ND		1.0	0.45	ug/L			12/28/17 12:34	1
2-Butanone (MEK)	ND		10	1.0	ug/L			12/28/17 12:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.71	ug/L			12/28/17 12:34	1
sec-Butylbenzene	ND		1.0	0.27	ug/L			12/28/17 12:34	1
Methyl tert butyl ether	ND		2.0	0.27	ug/L			12/28/17 12:34	1
Methylene Chloride	ND		1.0	0.53	ug/L			12/28/17 12:34	1
o-Xylene	ND		1.0	0.28	ug/L			12/28/17 12:34	1
Styrene	ND		1.0	0.23	ug/L			12/28/17 12:34	1
tert-Butylbenzene	ND		1.0	0.26	ug/L			12/28/17 12:34	1
Tetrachloroethene	ND		1.0	0.30	ug/L			12/28/17 12:34	1
Tetrahydrofuran	ND		5.0	0.84	ug/L			12/28/17 12:34	1
Toluene	ND		1.0	0.23	ug/L			12/28/17 12:34	1
trans-1,2-Dichloroethene	ND		1.0	0.29	ug/L			12/28/17 12:34	1
trans-1,3-Dichloropropene	ND		1.0	0.31	ug/L			12/28/17 12:34	1
Trichloroethene	ND		1.0	0.33	ug/L			12/28/17 12:34	1
Trichlorofluoromethane	ND		1.0	0.50	ug/L			12/28/17 12:34	1
Vinyl chloride	ND		1.0	0.45	ug/L			12/28/17 12:34	1
Methylcyclohexane	ND		1.0	0.45	ug/L			12/28/17 12:34	1
Chlorodibromomethane	ND		1.0	0.25	ug/L			12/28/17 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		61 - 138		12/28/17 12:34	1
4-Bromofluorobenzene (Surr)	82		69 - 120		12/28/17 12:34	1
Toluene-d8 (Surr)	114		73 - 120		12/28/17 12:34	1
Dibromofluoromethane (Surr)	110		69 - 124		12/28/17 12:34	1

Lab Sample ID: LCS 240-309421/4

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	73 - 136
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	64 - 147
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	58 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.4		ug/L		104	65 - 144
1,1,2-Trichloroethane	10.0	11.7		ug/L		117	76 - 121
1,1-Dichloroethane	10.0	10.6		ug/L		106	74 - 120
1,1-Dichloroethene	10.0	10.8		ug/L		108	65 - 127
1,1-Dichloropropene	10.0	11.1		ug/L		111	80 - 122
1,2,3-Trichlorobenzene	10.0	10.1		ug/L		101	31 - 144
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	53 - 134
1,2,4-Trichlorobenzene	10.0	8.18		ug/L		82	34 - 141
1,2,4-Trimethylbenzene	10.0	9.67		ug/L		97	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309421/4

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	7.59		ug/L		76	50 - 130
1,2-Dichlorobenzene	10.0	9.71		ug/L		97	80 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	68 - 133
1,2-Dichloropropane	10.0	11.3		ug/L		113	78 - 127
1,3,5-Trimethylbenzene	10.0	9.52		ug/L		95	79 - 120
1,3-Dichlorobenzene	10.0	9.79		ug/L		98	80 - 120
1,3-Dichloropropane	10.0	11.0		ug/L		110	71 - 124
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
Allyl chloride	10.0	10.6		ug/L		106	57 - 143
2,2-Dichloropropane	10.0	10.7		ug/L		107	32 - 178
2-Chlorotoluene	10.0	10.3		ug/L		103	80 - 120
2-Hexanone	20.0	15.2		ug/L		76	28 - 169
Bromobenzene	10.0	10.3		ug/L		103	73 - 120
Bromochloromethane	10.0	11.3		ug/L		113	78 - 120
4-Chlorotoluene	10.0	10.7		ug/L		107	79 - 120
p-Isopropyltoluene	10.0	8.88		ug/L		89	78 - 125
Acetone	20.0	14.7		ug/L		74	35 - 131
Benzene	10.0	10.9		ug/L		109	79 - 120
Bromoform	10.0	7.49		ug/L		75	55 - 145
Bromomethane	10.0	8.97		ug/L		90	17 - 158
Carbon disulfide	10.0	11.7		ug/L		117	49 - 141
Carbon tetrachloride	10.0	11.0		ug/L		110	55 - 171
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	9.36		ug/L		94	10 - 149
Chloroform	10.0	10.9		ug/L		109	80 - 120
Chloromethane	10.0	9.57		ug/L		96	59 - 124
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	77 - 120
cis-1,3-Dichloropropene	10.0	9.53		ug/L		95	75 - 120
Cyclohexane	10.0	11.5		ug/L		115	66 - 135
Hexachlorobutadiene	10.0	8.05		ug/L		81	36 - 146
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	10.4		ug/L		104	79 - 125
Dichlorodifluoromethane	10.0	9.91		ug/L		99	42 - 141
Dichlorofluoromethane	10.0	8.86		ug/L		89	28 - 138
Ethyl ether	10.0	9.93		ug/L		99	72 - 125
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
1,2-Dibromoethane	10.0	10.3		ug/L		103	80 - 120
Naphthalene	10.0	8.64		ug/L		86	31 - 127
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
n-Butylbenzene	10.0	8.24		ug/L		82	60 - 137
Isopropylbenzene	10.0	9.51		ug/L		95	80 - 128
Methyl acetate	20.0	21.2		ug/L		106	63 - 137
N-Propylbenzene	10.0	9.81		ug/L		98	76 - 120
2-Butanone (MEK)	20.0	18.5		ug/L		93	43 - 149
4-Methyl-2-pentanone (MIBK)	20.0	17.3		ug/L		86	53 - 144
sec-Butylbenzene	10.0	9.07		ug/L		91	76 - 124
Methyl tert butyl ether	10.0	9.43		ug/L		94	73 - 120
Methylene Chloride	10.0	11.8		ug/L		118	64 - 140

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309421/4

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Styrene	10.0	9.53		ug/L		95	80 - 121
tert-Butylbenzene	10.0	9.04		ug/L		90	79 - 120
Tetrachloroethene	10.0	10.0		ug/L		100	80 - 122
Tetrahydrofuran	20.0	19.5		ug/L		98	63 - 131
Toluene	10.0	11.1		ug/L		111	78 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 124
trans-1,3-Dichloropropene	10.0	9.10		ug/L		91	67 - 120
Trichloroethene	10.0	10.7		ug/L		107	76 - 124
Trichlorofluoromethane	10.0	9.43		ug/L		94	27 - 176
Vinyl chloride	10.0	9.76		ug/L		98	65 - 124
Methylcyclohexane	10.0	9.68		ug/L		97	63 - 141
Chlorodibromomethane	10.0	9.54		ug/L		95	64 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		61 - 138
4-Bromofluorobenzene (Surr)	84		69 - 120
Toluene-d8 (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	99		69 - 124

Lab Sample ID: 240-89452-A-40 MS

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		100	106		ug/L		106	67 - 142
1,1,1-Trichloroethane	3.2	J F2	100	106		ug/L		102	57 - 156
1,1,2,2-Tetrachloroethane	ND	F1	100	111		ug/L		111	51 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	78.9		ug/L		79	58 - 137
1,1,2-Trichloroethane	ND	F2 F1	100	112		ug/L		112	68 - 127
1,1-Dichloroethane	ND		100	110		ug/L		110	69 - 122
1,1-Dichloroethene	ND		100	103		ug/L		103	62 - 127
1,1-Dichloropropene	ND		100	103		ug/L		103	55 - 136
1,2,3-Trichlorobenzene	ND		100	92.2		ug/L		92	40 - 139
1,2,3-Trichloropropane	ND	F2	100	109		ug/L		109	41 - 152
1,2,4-Trichlorobenzene	ND		100	81.2		ug/L		81	26 - 138
1,2,4-Trimethylbenzene	ND		100	92.5		ug/L		92	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F2	100	71.5		ug/L		72	48 - 130
1,2-Dichlorobenzene	ND		100	101		ug/L		101	70 - 120
1,2-Dichloroethane	ND		100	112		ug/L		112	64 - 138
1,2-Dichloropropane	ND		100	113		ug/L		113	72 - 131
1,3,5-Trimethylbenzene	ND		100	92.2		ug/L		92	67 - 120
1,3-Dichlorobenzene	ND		100	95.5		ug/L		95	71 - 120
1,3-Dichloropropane	ND		100	107		ug/L		107	58 - 137
1,4-Dichlorobenzene	ND		100	99.4		ug/L		99	72 - 120
2,2-Dichloropropane	ND		100	105		ug/L		105	34 - 153
2-Chlorotoluene	ND		100	105		ug/L		105	52 - 134

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-A-40 MS

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND	F2	200	144		ug/L		72	21 - 184
Bromobenzene	ND		100	104		ug/L		104	59 - 131
Bromochloromethane	ND		100	108		ug/L		108	66 - 132
4-Chlorotoluene	ND		100	109		ug/L		109	52 - 133
p-Isopropyltoluene	ND		100	82.7		ug/L		83	70 - 120
Acetone	ND		200	135		ug/L		67	19 - 133
Benzene	ND		100	107		ug/L		107	69 - 127
Bromoform	ND	F2	100	67.6		ug/L		68	61 - 135
Bromomethane	ND		100	94.6		ug/L		95	10 - 148
Carbon disulfide	ND		100	110		ug/L		110	46 - 143
Carbon tetrachloride	ND		100	104		ug/L		104	53 - 175
Chlorobenzene	ND		100	104		ug/L		104	76 - 120
Chloroethane	ND		100	98.5		ug/L		99	10 - 141
Chloroform	ND		100	111		ug/L		111	74 - 125
Chloromethane	ND		100	100		ug/L		100	34 - 127
cis-1,2-Dichloroethene	27		100	138		ug/L		111	69 - 127
cis-1,3-Dichloropropene	ND		100	93.6		ug/L		94	68 - 120
Hexachlorobutadiene	ND		100	68.5		ug/L		68	30 - 134
Dibromomethane	ND		100	104		ug/L		104	73 - 120
Bromodichloromethane	ND		100	103		ug/L		103	75 - 128
Dichlorodifluoromethane	ND		100	94.8		ug/L		95	45 - 130
Dichlorofluoromethane	ND		100	97.7		ug/L		98	36 - 161
Ethyl ether	ND		100	95.9		ug/L		96	65 - 124
Ethylbenzene	ND		100	101		ug/L		101	72 - 121
1,2-Dibromoethane	ND	F2	100	96.8		ug/L		97	73 - 121
Naphthalene	ND		100	81.4		ug/L		81	28 - 150
m-Xylene & p-Xylene	ND		100	96.1		ug/L		96	70 - 121
n-Butylbenzene	ND		100	75.9		ug/L		76	38 - 133
Isopropylbenzene	ND		100	87.7		ug/L		88	70 - 132
N-Propylbenzene	ND		100	100		ug/L		100	50 - 134
2-Butanone (MEK)	ND		200	172		ug/L		86	34 - 153
4-Methyl-2-pentanone (MIBK)	ND	F2	200	163		ug/L		82	53 - 147
sec-Butylbenzene	ND		100	86.0		ug/L		86	43 - 133
Methyl tert butyl ether	ND	F2	100	94.9		ug/L		95	67 - 125
Methylene Chloride	ND		100	119		ug/L		119	52 - 137
o-Xylene	ND		100	97.8		ug/L		98	71 - 125
Styrene	ND		100	95.2		ug/L		95	74 - 125
tert-Butylbenzene	ND		100	85.1		ug/L		85	48 - 131
Tetrachloroethene	ND		100	91.7		ug/L		92	69 - 126
Tetrahydrofuran	ND	F2	200	194		ug/L		97	40 - 128
Toluene	ND		100	109		ug/L		109	69 - 125
trans-1,2-Dichloroethene	21		100	129		ug/L		108	66 - 131
trans-1,3-Dichloropropene	ND	F2	100	87.0		ug/L		87	59 - 120
Trichloroethene	210	F1	100	327		ug/L		116	68 - 129
Trichlorofluoromethane	ND		100	90.8		ug/L		91	28 - 172
Vinyl chloride	ND		100	105		ug/L		105	55 - 123
Chlorodibromomethane	ND		100	88.5		ug/L		88	62 - 131

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-A-40 MS

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		61 - 138
4-Bromofluorobenzene (Surr)	91		69 - 120
Toluene-d8 (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	107		69 - 124

Lab Sample ID: 240-89452-A-40 MSD

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		100	109		ug/L		109	67 - 142	3	18
1,1,1-Trichloroethane	3.2	J F2	100	124	F2	ug/L		121	57 - 156	16	13
1,1,2,2-Tetrachloroethane	ND	F1	100	129	F1	ug/L		129	51 - 123	15	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	105		ug/L		105	58 - 137	29	35
1,1,2-Trichloroethane	ND	F2 F1	100	129	F1 F2	ug/L		129	68 - 127	15	11
1,1-Dichloroethane	ND		100	118		ug/L		118	69 - 122	7	11
1,1-Dichloroethene	ND		100	116		ug/L		116	62 - 127	12	14
1,1-Dichloropropene	ND		100	118		ug/L		118	55 - 136	13	35
1,2,3-Trichlorobenzene	ND		100	97.5		ug/L		98	40 - 139	6	35
1,2,3-Trichloropropane	ND	F2	100	127	F2	ug/L		127	41 - 152	16	12
1,2,4-Trichlorobenzene	ND		100	86.4		ug/L		86	26 - 138	6	35
1,2,4-Trimethylbenzene	ND		100	101		ug/L		101	64 - 120	9	22
1,2-Dibromo-3-Chloropropane	ND	F2	100	101	F2	ug/L		101	48 - 130	34	31
1,2-Dichlorobenzene	ND		100	108		ug/L		108	70 - 120	7	19
1,2-Dichloroethane	ND		100	122		ug/L		122	64 - 138	8	11
1,2-Dichloropropane	ND		100	125		ug/L		125	72 - 131	10	12
1,3,5-Trimethylbenzene	ND		100	105		ug/L		105	67 - 120	13	25
1,3-Dichlorobenzene	ND		100	106		ug/L		106	71 - 120	10	18
1,3-Dichloropropane	ND		100	119		ug/L		119	58 - 137	11	35
1,4-Dichlorobenzene	ND		100	106		ug/L		106	72 - 120	6	17
2,2-Dichloropropane	ND		100	116		ug/L		116	34 - 153	9	35
2-Chlorotoluene	ND		100	110		ug/L		110	52 - 134	4	35
2-Hexanone	ND	F2	200	189	F2	ug/L		95	21 - 184	27	12
Bromobenzene	ND		100	113		ug/L		113	59 - 131	8	35
Bromochloromethane	ND		100	115		ug/L		115	66 - 132	7	15
4-Chlorotoluene	ND		100	118		ug/L		118	52 - 133	8	35
p-Isopropyltoluene	ND		100	94.9		ug/L		95	70 - 120	14	22
Acetone	ND		200	160		ug/L		80	19 - 133	17	35
Benzene	ND		100	117		ug/L		117	69 - 127	9	10
Bromoform	ND	F2	100	80.9	F2	ug/L		81	61 - 135	18	13
Bromomethane	ND		100	97.4		ug/L		97	10 - 148	3	35
Carbon disulfide	ND		100	119		ug/L		119	46 - 143	8	18
Carbon tetrachloride	ND		100	122		ug/L		122	53 - 175	16	17
Chlorobenzene	ND		100	110		ug/L		110	76 - 120	6	12
Chloroethane	ND		100	107		ug/L		107	10 - 141	9	35
Chloroform	ND		100	117		ug/L		117	74 - 125	6	11
Chloromethane	ND		100	112		ug/L		112	34 - 127	11	25

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89452-A-40 MSD

Matrix: Water

Analysis Batch: 309421

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	27		100	144		ug/L		116	69 - 127	4	11
cis-1,3-Dichloropropene	ND		100	106		ug/L		106	68 - 120	12	13
Hexachlorobutadiene	ND		100	78.7		ug/L		79	30 - 134	14	35
Dibromomethane	ND		100	116		ug/L		116	73 - 120	11	16
Bromodichloromethane	ND		100	113		ug/L		113	75 - 128	9	13
Dichlorodifluoromethane	ND		100	117		ug/L		117	45 - 130	21	34
Dichlorofluoromethane	ND		100	99.2		ug/L		99	36 - 161	2	35
Ethyl ether	ND		100	108		ug/L		108	65 - 124	11	11
Ethylbenzene	ND		100	111		ug/L		111	72 - 121	9	15
1,2-Dibromoethane	ND	F2	100	112	F2	ug/L		112	73 - 121	14	12
Naphthalene	ND		100	98.7		ug/L		99	28 - 150	19	35
m-Xylene & p-Xylene	ND		100	109		ug/L		109	70 - 121	12	15
n-Butylbenzene	ND		100	87.1		ug/L		87	38 - 133	14	35
Isopropylbenzene	ND		100	101		ug/L		101	70 - 132	14	16
N-Propylbenzene	ND		100	112		ug/L		112	50 - 134	11	35
2-Butanone (MEK)	ND		200	194		ug/L		97	34 - 153	12	23
4-Methyl-2-pentanone (MIBK)	ND	F2	200	214	F2	ug/L		107	53 - 147	27	16
sec-Butylbenzene	ND		100	98.1		ug/L		98	43 - 133	13	35
Methyl tert butyl ether	ND	F2	100	111	F2	ug/L		111	67 - 125	16	12
Methylene Chloride	ND		100	123		ug/L		123	52 - 137	3	12
o-Xylene	ND		100	107		ug/L		107	71 - 125	9	15
Styrene	ND		100	103		ug/L		103	74 - 125	8	14
tert-Butylbenzene	ND		100	100		ug/L		100	48 - 131	16	35
Tetrachloroethene	ND		100	108		ug/L		108	69 - 126	16	18
Tetrahydrofuran	ND	F2	200	239	F2	ug/L		120	40 - 128	21	15
Toluene	ND		100	115		ug/L		115	69 - 125	5	14
trans-1,2-Dichloroethene	21		100	143		ug/L		122	66 - 131	10	11
trans-1,3-Dichloropropene	ND	F2	100	101	F2	ug/L		101	59 - 120	15	14
Trichloroethene	210	F1	100	350	F1	ug/L		139	68 - 129	7	12
Trichlorofluoromethane	ND		100	101		ug/L		101	28 - 172	10	26
Vinyl chloride	ND		100	112		ug/L		112	55 - 123	6	12
Chlorodibromomethane	ND		100	101		ug/L		101	62 - 131	13	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		61 - 138
4-Bromofluorobenzene (Surr)	97		69 - 120
Toluene-d8 (Surr)	111		73 - 120
Dibromofluoromethane (Surr)	110		69 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/20/17 07:00	12/22/17 14:07	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/20/17 07:00	12/22/17 14:07	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		1.0	0.34	ug/L		12/20/17 07:00	12/22/17 14:07	1
Anthracene	ND		0.20	0.088	ug/L		12/20/17 07:00	12/22/17 14:07	1
Atrazine	ND		2.0	0.34	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/20/17 07:00	12/22/17 14:07	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/20/17 07:00	12/22/17 14:07	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/20/17 07:00	12/22/17 14:07	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/20/17 07:00	12/22/17 14:07	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 14:07	1
Caprolactam	ND		5.0	0.20	ug/L		12/20/17 07:00	12/22/17 14:07	1
Carbazole	ND		1.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/20/17 07:00	12/22/17 14:07	1
Chrysene	ND		0.20	0.050	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/20/17 07:00	12/22/17 14:07	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/20/17 07:00	12/22/17 14:07	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/20/17 07:00	12/22/17 14:07	1
Diethyl phthalate	0.666	J	2.0	0.60	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/20/17 07:00	12/22/17 14:07	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/20/17 07:00	12/22/17 14:07	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/20/17 07:00	12/22/17 14:07	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/20/17 07:00	12/22/17 14:07	1
Fluoranthene	ND		0.20	0.045	ug/L		12/20/17 07:00	12/22/17 14:07	1
Fluorene	ND		0.20	0.041	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/20/17 07:00	12/22/17 14:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/20/17 07:00	12/22/17 14:07	1
Isophorone	ND		1.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/20/17 07:00	12/22/17 14:07	1
Naphthalene	ND		0.20	0.063	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/20/17 07:00	12/22/17 14:07	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308397/19-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		2.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/20/17 07:00	12/22/17 14:07	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/20/17 07:00	12/22/17 14:07	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/20/17 07:00	12/22/17 14:07	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/20/17 07:00	12/22/17 14:07	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/20/17 07:00	12/22/17 14:07	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/20/17 07:00	12/22/17 14:07	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/20/17 07:00	12/22/17 14:07	1
Phenanthrene	ND		0.20	0.062	ug/L		12/20/17 07:00	12/22/17 14:07	1
Phenol	ND		1.0	0.60	ug/L		12/20/17 07:00	12/22/17 14:07	1
Pyrene	ND		0.20	0.042	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/20/17 07:00	12/22/17 14:07	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/20/17 07:00	12/22/17 14:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		38 - 120	12/20/17 07:00	12/22/17 14:07	1
2-Fluorophenol (Surr)	42		10 - 120	12/20/17 07:00	12/22/17 14:07	1
2,4,6-Tribromophenol (Surr)	73		28 - 120	12/20/17 07:00	12/22/17 14:07	1
Nitrobenzene-d5 (Surr)	68		32 - 120	12/20/17 07:00	12/22/17 14:07	1
Phenol-d5 (Surr)	26		10 - 120	12/20/17 07:00	12/22/17 14:07	1
Terphenyl-d14 (Surr)	88		23 - 127	12/20/17 07:00	12/22/17 14:07	1

Lab Sample ID: LCS 240-308397/20-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	20.0	15.3		ug/L		76	54 - 120
Acenaphthylene	20.0	14.4		ug/L		72	53 - 120
Acetophenone	20.0	14.8		ug/L		74	56 - 120
Anthracene	20.0	15.6		ug/L		78	56 - 120
Atrazine	40.0	34.8		ug/L		87	61 - 127
Benzaldehyde	40.0	32.6		ug/L		81	47 - 134
Benzo[a]anthracene	20.0	14.5		ug/L		73	54 - 120
Benzo[b]fluoranthene	20.0	15.1		ug/L		76	53 - 120
Benzo[k]fluoranthene	20.0	14.3		ug/L		71	55 - 120
Benzo[g,h,i]perylene	20.0	13.6		ug/L		68	55 - 120
Benzo[a]pyrene	20.0	14.0		ug/L		70	54 - 120
Butyl benzyl phthalate	20.0	15.6		ug/L		78	51 - 120
1,1'-Biphenyl	20.0	14.9		ug/L		74	53 - 120
Bis(2-chloroethoxy)methane	20.0	15.0		ug/L		75	56 - 120
Bis(2-chloroethyl)ether	20.0	14.4		ug/L		72	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	13.3		ug/L		67	50 - 120
4-Bromophenyl phenyl ether	20.0	16.4		ug/L		82	54 - 120
Caprolactam	40.0	4.01	J	ug/L		10	10 - 120
Carbazole	20.0	16.8		ug/L		84	62 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308397/20-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	20.0	4.02		ug/L		20	10 - 120
4-Chloro-3-methylphenol	20.0	14.7		ug/L		74	54 - 120
2-Chloronaphthalene	20.0	14.6		ug/L		73	53 - 120
2-Chlorophenol	20.0	13.7		ug/L		69	53 - 120
4-Chlorophenyl phenyl ether	20.0	15.8		ug/L		79	56 - 120
Chrysene	20.0	15.2		ug/L		76	56 - 120
2-Methylnaphthalene	20.0	13.6		ug/L		68	54 - 120
3 & 4 Methylphenol	20.0	11.7		ug/L		58	40 - 120
Dibenz(a,h)anthracene	20.0	14.1		ug/L		71	52 - 120
Dibenzofuran	20.0	15.5		ug/L		77	55 - 120
3,3'-Dichlorobenzidine	40.0	32.6		ug/L		82	57 - 120
2,4-Dichlorophenol	20.0	14.3		ug/L		71	55 - 120
Diethyl phthalate	20.0	17.3		ug/L		86	42 - 132
2,4-Dimethylphenol	20.0	14.4		ug/L		72	52 - 120
Dimethyl phthalate	20.0	16.2		ug/L		81	56 - 120
4,6-Dinitro-2-methylphenol	40.0	27.9		ug/L		70	36 - 120
2,4-Dinitrophenol	40.0	26.2		ug/L		66	12 - 120
2,4-Dinitrotoluene	20.0	16.6		ug/L		83	60 - 120
Di-n-butyl phthalate	20.0	15.6		ug/L		78	61 - 120
Di-n-octyl phthalate	20.0	11.6		ug/L		58	58 - 120
Fluoranthene	20.0	16.4		ug/L		82	58 - 120
Fluorene	20.0	15.8		ug/L		79	56 - 120
Hexachlorobenzene	20.0	14.9		ug/L		74	51 - 120
Hexachlorobutadiene	20.0	11.6		ug/L		58	44 - 120
Hexachlorocyclopentadiene	20.0	10.9		ug/L		54	19 - 120
Hexachloroethane	20.0	10.8		ug/L		54	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	13.6		ug/L		68	54 - 120
Isophorone	20.0	14.7		ug/L		73	55 - 120
2-Methylphenol	20.0	12.8		ug/L		64	46 - 120
Naphthalene	20.0	14.0		ug/L		70	53 - 120
2-Nitroaniline	20.0	16.3		ug/L		81	51 - 120
3-Nitroaniline	20.0	15.3		ug/L		76	53 - 120
4-Nitroaniline	20.0	16.1		ug/L		80	55 - 120
Nitrobenzene	20.0	15.0		ug/L		75	55 - 120
2-Nitrophenol	20.0	14.6		ug/L		73	54 - 120
4-Nitrophenol	40.0	14.4		ug/L		36	10 - 120
N-Nitrosodiphenylamine	20.0	15.8		ug/L		79	55 - 120
N-Nitrosodi-n-propylamine	20.0	14.8		ug/L		74	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	14.5		ug/L		72	45 - 120
Pentachlorophenol	40.0	32.5		ug/L		81	30 - 120
Phenanthrene	20.0	15.7		ug/L		78	55 - 120
Phenol	20.0	6.16		ug/L		31	10 - 120
Pyrene	20.0	16.2		ug/L		81	57 - 120
2,4,5-Trichlorophenol	20.0	16.1		ug/L		80	54 - 120
2,4,6-Trichlorophenol	20.0	15.3		ug/L		77	54 - 120
2,6-Dinitrotoluene	20.0	16.6		ug/L		83	60 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308397/20-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308397

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		38 - 120
2-Fluorophenol (Surr)	50		10 - 120
2,4,6-Tribromophenol (Surr)	85		28 - 120
Nitrobenzene-d5 (Surr)	76		32 - 120
Phenol-d5 (Surr)	32		10 - 120
Terphenyl-d14 (Surr)	81		23 - 127

Lab Sample ID: MB 240-308680/16-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/21/17 10:30	12/22/17 14:55	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/21/17 10:30	12/22/17 14:55	1
Acetophenone	ND		1.0	0.34	ug/L		12/21/17 10:30	12/22/17 14:55	1
Anthracene	ND		0.20	0.088	ug/L		12/21/17 10:30	12/22/17 14:55	1
Atrazine	ND		2.0	0.34	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/21/17 10:30	12/22/17 14:55	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/21/17 10:30	12/22/17 14:55	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/21/17 10:30	12/22/17 14:55	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/21/17 10:30	12/22/17 14:55	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 14:55	1
Caprolactam	ND		5.0	0.20	ug/L		12/21/17 10:30	12/22/17 14:55	1
Carbazole	ND		1.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/21/17 10:30	12/22/17 14:55	1
Chrysene	ND		0.20	0.050	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/21/17 10:30	12/22/17 14:55	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/21/17 10:30	12/22/17 14:55	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/21/17 10:30	12/22/17 14:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/21/17 10:30	12/22/17 14:55	1
Diethyl phthalate	0.624	J	2.0	0.60	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/21/17 10:30	12/22/17 14:55	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/21/17 10:30	12/22/17 14:55	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-308680/16-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/21/17 10:30	12/22/17 14:55	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/21/17 10:30	12/22/17 14:55	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/21/17 10:30	12/22/17 14:55	1
Fluoranthene	ND		0.20	0.045	ug/L		12/21/17 10:30	12/22/17 14:55	1
Fluorene	ND		0.20	0.041	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/21/17 10:30	12/22/17 14:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/21/17 10:30	12/22/17 14:55	1
Isophorone	ND		1.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/21/17 10:30	12/22/17 14:55	1
Naphthalene	ND		0.20	0.063	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/21/17 10:30	12/22/17 14:55	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/21/17 10:30	12/22/17 14:55	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/21/17 10:30	12/22/17 14:55	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/21/17 10:30	12/22/17 14:55	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/21/17 10:30	12/22/17 14:55	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/21/17 10:30	12/22/17 14:55	1
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/21/17 10:30	12/22/17 14:55	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/21/17 10:30	12/22/17 14:55	1
Phenanthrene	ND		0.20	0.062	ug/L		12/21/17 10:30	12/22/17 14:55	1
Phenol	ND		1.0	0.60	ug/L		12/21/17 10:30	12/22/17 14:55	1
Pyrene	ND		0.20	0.042	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/21/17 10:30	12/22/17 14:55	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/21/17 10:30	12/22/17 14:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		38 - 120	12/21/17 10:30	12/22/17 14:55	1
2-Fluorophenol (Surr)	46		10 - 120	12/21/17 10:30	12/22/17 14:55	1
2,4,6-Tribromophenol (Surr)	71		28 - 120	12/21/17 10:30	12/22/17 14:55	1
Nitrobenzene-d5 (Surr)	67		32 - 120	12/21/17 10:30	12/22/17 14:55	1
Phenol-d5 (Surr)	30		10 - 120	12/21/17 10:30	12/22/17 14:55	1
Terphenyl-d14 (Surr)	88		23 - 127	12/21/17 10:30	12/22/17 14:55	1

Lab Sample ID: LCS 240-308680/17-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	15.2		ug/L		76	54 - 120
Acenaphthylene	20.0	14.8		ug/L		74	53 - 120
Acetophenone	20.0	14.1		ug/L		71	56 - 120
Anthracene	20.0	16.7		ug/L		84	56 - 120
Atrazine	40.0	36.4		ug/L		91	61 - 127

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308680/17-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	40.0	30.6		ug/L		76	47 - 134
Benzo[a]anthracene	20.0	16.3		ug/L		81	54 - 120
Benzo[b]fluoranthene	20.0	15.9		ug/L		80	53 - 120
Benzo[k]fluoranthene	20.0	15.1		ug/L		76	55 - 120
Benzo[g,h,i]perylene	20.0	15.1		ug/L		76	55 - 120
Benzo[a]pyrene	20.0	15.6		ug/L		78	54 - 120
Butyl benzyl phthalate	20.0	16.7		ug/L		84	51 - 120
1,1'-Biphenyl	20.0	15.0		ug/L		75	53 - 120
Bis(2-chloroethoxy)methane	20.0	14.5		ug/L		73	56 - 120
Bis(2-chloroethyl)ether	20.0	13.9		ug/L		70	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	15.4		ug/L		77	50 - 120
4-Bromophenyl phenyl ether	20.0	17.0		ug/L		85	54 - 120
Caprolactam	40.0	4.02	J	ug/L		10	10 - 120
Carbazole	20.0	17.3		ug/L		87	62 - 120
4-Chloroaniline	20.0	5.02		ug/L		25	10 - 120
4-Chloro-3-methylphenol	20.0	13.9		ug/L		70	54 - 120
2-Chloronaphthalene	20.0	15.1		ug/L		75	53 - 120
2-Chlorophenol	20.0	13.2		ug/L		66	53 - 120
4-Chlorophenyl phenyl ether	20.0	15.7		ug/L		79	56 - 120
Chrysene	20.0	16.6		ug/L		83	56 - 120
2-Methylnaphthalene	20.0	13.8		ug/L		69	54 - 120
3 & 4 Methylphenol	20.0	10.9		ug/L		55	40 - 120
Dibenz(a,h)anthracene	20.0	15.2		ug/L		76	52 - 120
Dibenzofuran	20.0	15.9		ug/L		79	55 - 120
3,3'-Dichlorobenzidine	40.0	34.4		ug/L		86	57 - 120
2,4-Dichlorophenol	20.0	14.4		ug/L		72	55 - 120
Diethyl phthalate	20.0	17.8		ug/L		89	42 - 132
2,4-Dimethylphenol	20.0	13.8		ug/L		69	52 - 120
Dimethyl phthalate	20.0	16.7		ug/L		83	56 - 120
4,6-Dinitro-2-methylphenol	40.0	28.8		ug/L		72	36 - 120
2,4-Dinitrophenol	40.0	26.6		ug/L		66	12 - 120
2,4-Dinitrotoluene	20.0	18.0		ug/L		90	60 - 120
Di-n-butyl phthalate	20.0	17.0		ug/L		85	61 - 120
Di-n-octyl phthalate	20.0	12.6		ug/L		63	58 - 120
Fluoranthene	20.0	17.2		ug/L		86	58 - 120
Fluorene	20.0	15.9		ug/L		79	56 - 120
Hexachlorobenzene	20.0	16.1		ug/L		80	51 - 120
Hexachlorobutadiene	20.0	11.2		ug/L		56	44 - 120
Hexachlorocyclopentadiene	20.0	11.1		ug/L		56	19 - 120
Hexachloroethane	20.0	10.6		ug/L		53	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.0		ug/L		75	54 - 120
Isophorone	20.0	14.0		ug/L		70	55 - 120
2-Methylphenol	20.0	12.0		ug/L		60	46 - 120
Naphthalene	20.0	13.5		ug/L		68	53 - 120
2-Nitroaniline	20.0	16.5		ug/L		83	51 - 120
3-Nitroaniline	20.0	15.9		ug/L		79	53 - 120
4-Nitroaniline	20.0	16.7		ug/L		84	55 - 120
Nitrobenzene	20.0	14.3		ug/L		72	55 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-308680/17-A

Matrix: Water

Analysis Batch: 308835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	20.0	14.2		ug/L		71	54 - 120
4-Nitrophenol	40.0	13.9		ug/L		35	10 - 120
N-Nitrosodiphenylamine	20.0	16.5		ug/L		82	55 - 120
N-Nitrosodi-n-propylamine	20.0	13.9		ug/L		69	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.9		ug/L		69	45 - 120
Pentachlorophenol	40.0	33.8		ug/L		85	30 - 120
Phenanthrene	20.0	16.2		ug/L		81	55 - 120
Phenol	20.0	5.40		ug/L		27	10 - 120
Pyrene	20.0	17.2		ug/L		86	57 - 120
2,4,5-Trichlorophenol	20.0	16.9		ug/L		84	54 - 120
2,4,6-Trichlorophenol	20.0	15.3		ug/L		76	54 - 120
2,6-Dinitrotoluene	20.0	16.7		ug/L		84	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	80		38 - 120
2-Fluorophenol (Surr)	44		10 - 120
2,4,6-Tribromophenol (Surr)	88		28 - 120
Nitrobenzene-d5 (Surr)	75		32 - 120
Phenol-d5 (Surr)	28		10 - 120
Terphenyl-d14 (Surr)	88		23 - 127

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308835

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		19.2	14.0		ug/L		73	35 - 120
Acenaphthylene	ND		19.2	13.2		ug/L		69	36 - 120
Acetophenone	ND		19.2	12.8		ug/L		66	42 - 120
Anthracene	ND		19.2	15.1		ug/L		79	35 - 120
Atrazine	ND		38.5	33.5		ug/L		87	47 - 121
Benzaldehyde	ND		38.5	27.5		ug/L		72	46 - 120
Benzo[a]anthracene	ND		19.2	13.4		ug/L		70	16 - 120
Benzo[b]fluoranthene	ND		19.2	12.4		ug/L		64	10 - 120
Benzo[k]fluoranthene	ND		19.2	12.1		ug/L		63	10 - 120
Benzo[g,h,i]perylene	ND		19.2	11.8		ug/L		61	10 - 120
Benzo[a]pyrene	ND		19.2	11.9		ug/L		62	10 - 120
Butyl benzyl phthalate	ND		19.2	15.2		ug/L		79	39 - 120
1,1'-Biphenyl	ND		19.2	13.5		ug/L		70	45 - 120
Bis(2-chloroethoxy)methane	ND		19.2	12.9		ug/L		67	44 - 120
Bis(2-chloroethyl)ether	ND		19.2	12.4		ug/L		64	42 - 120
Bis(2-ethylhexyl) phthalate	ND		19.2	11.6		ug/L		60	15 - 120
4-Bromophenyl phenyl ether	ND		19.2	15.1		ug/L		79	41 - 120
Caprolactam	ND	F1	38.5	2.48	J F1	ug/L		6	10 - 120
Carbazole	ND		19.2	16.0		ug/L		83	55 - 120
4-Chloroaniline	ND		19.2	2.50		ug/L		13	10 - 120
4-Chloro-3-methylphenol	ND		19.2	12.6		ug/L		66	32 - 120
2-Chloronaphthalene	ND		19.2	13.3		ug/L		69	42 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308835

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	ND		19.2	11.5		ug/L		60	29 - 120
4-Chlorophenyl phenyl ether	ND		19.2	14.5		ug/L		75	43 - 120
Chrysene	ND		19.2	14.1		ug/L		73	14 - 120
2-Methylnaphthalene	ND		19.2	12.4		ug/L		64	43 - 120
3 & 4 Methylphenol	ND		19.2	9.37		ug/L		49	15 - 120
Dibenz(a,h)anthracene	ND		19.2	11.4		ug/L		60	10 - 120
Dibenzofuran	ND		19.2	14.2		ug/L		74	46 - 120
3,3'-Dichlorobenzidine	ND		38.5	29.6		ug/L		77	10 - 120
2,4-Dichlorophenol	ND		19.2	12.5		ug/L		65	19 - 121
Diethyl phthalate	0.61	J B	19.2	16.3		ug/L		81	49 - 120
2,4-Dimethylphenol	ND		19.2	12.0		ug/L		63	16 - 120
Dimethyl phthalate	ND		19.2	15.2		ug/L		79	47 - 120
4,6-Dinitro-2-methylphenol	ND		38.5	24.9		ug/L		65	10 - 120
2,4-Dinitrophenol	ND		38.5	4.38	J	ug/L		11	10 - 120
2,4-Dinitrotoluene	ND		19.2	16.3		ug/L		85	49 - 120
Di-n-butyl phthalate	ND		19.2	15.6		ug/L		81	42 - 120
Di-n-octyl phthalate	ND		19.2	9.61		ug/L		50	13 - 120
Fluoranthene	ND		19.2	15.7		ug/L		82	28 - 120
Fluorene	ND		19.2	14.9		ug/L		77	36 - 120
Hexachlorobenzene	ND		19.2	14.3		ug/L		74	31 - 120
Hexachlorobutadiene	ND		19.2	10.9		ug/L		57	30 - 120
Hexachlorocyclopentadiene	ND		19.2	10.3		ug/L		54	10 - 120
Hexachloroethane	ND		19.2	10.9		ug/L		57	12 - 120
Indeno[1,2,3-cd]pyrene	ND		19.2	11.3		ug/L		59	10 - 120
Isophorone	ND		19.2	12.6		ug/L		66	45 - 120
2-Methylphenol	ND		19.2	10.5		ug/L		55	18 - 120
Naphthalene	ND		19.2	12.4		ug/L		65	32 - 120
2-Nitroaniline	ND		19.2	15.1		ug/L		78	35 - 120
3-Nitroaniline	ND		19.2	13.5		ug/L		70	10 - 120
4-Nitroaniline	ND		19.2	15.2		ug/L		79	10 - 120
Nitrobenzene	ND		19.2	12.7		ug/L		66	48 - 120
2-Nitrophenol	ND		19.2	10.3		ug/L		53	43 - 120
4-Nitrophenol	ND		38.5	11.0		ug/L		29	10 - 120
N-Nitrosodiphenylamine	ND		19.2	14.6		ug/L		76	39 - 120
N-Nitrosodi-n-propylamine	ND		19.2	12.5		ug/L		65	45 - 120
2,2'-oxybis[1-chloropropane]	ND		19.2	12.8		ug/L		67	44 - 120
Pentachlorophenol	ND		38.5	22.6		ug/L		59	20 - 120
Phenanthrene	ND		19.2	14.9		ug/L		78	36 - 120
Phenol	ND		19.2	4.45		ug/L		23	10 - 120
Pyrene	ND		19.2	15.4		ug/L		80	28 - 120
2,4,5-Trichlorophenol	ND		19.2	14.2		ug/L		74	20 - 120
2,4,6-Trichlorophenol	ND		19.2	11.0		ug/L		57	40 - 120
2,6-Dinitrotoluene	ND		19.2	15.9		ug/L		83	48 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		38 - 120
2-Fluorophenol (Surr)	39		10 - 120
2,4,6-Tribromophenol (Surr)	78		28 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308835

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308680

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	68		32 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	75		23 - 127

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308835

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		19.2	14.2		ug/L		74	35 - 120	2	35
Acenaphthylene	ND		19.2	13.5		ug/L		70	36 - 120	2	35
Acetophenone	ND		19.2	12.9		ug/L		67	42 - 120	1	31
Anthracene	ND		19.2	14.9		ug/L		77	35 - 120	2	35
Atrazine	ND		38.5	33.4		ug/L		87	47 - 121	0	25
Benzaldehyde	ND		38.5	27.3		ug/L		71	46 - 120	1	35
Benzo[a]anthracene	ND		19.2	12.5		ug/L		65	16 - 120	7	35
Benzo[b]fluoranthene	ND		19.2	11.4		ug/L		59	10 - 120	8	35
Benzo[k]fluoranthene	ND		19.2	11.3		ug/L		59	10 - 120	7	35
Benzo[g,h,i]perylene	ND		19.2	10.3		ug/L		54	10 - 120	13	35
Benzo[a]pyrene	ND		19.2	10.9		ug/L		57	10 - 120	8	35
Butyl benzyl phthalate	ND		19.2	15.0		ug/L		78	39 - 120	2	30
1,1'-Biphenyl	ND		19.2	13.9		ug/L		72	45 - 120	3	26
Bis(2-chloroethoxy)methane	ND		19.2	13.2		ug/L		69	44 - 120	2	32
Bis(2-chloroethyl)ether	ND		19.2	12.3		ug/L		64	42 - 120	1	35
Bis(2-ethylhexyl) phthalate	ND		19.2	10.0		ug/L		52	15 - 120	15	35
4-Bromophenyl phenyl ether	ND		19.2	15.3		ug/L		80	41 - 120	1	27
Caprolactam	ND	F1	38.5	1.99	J F1	ug/L		5	10 - 120	22	33
Carbazole	ND		19.2	15.7		ug/L		82	55 - 120	2	24
4-Chloroaniline	ND		19.2	2.32		ug/L		12	10 - 120	8	35
4-Chloro-3-methylphenol	ND		19.2	12.6		ug/L		65	32 - 120	0	32
2-Chloronaphthalene	ND		19.2	14.0		ug/L		73	42 - 120	6	28
2-Chlorophenol	ND		19.2	11.3		ug/L		59	29 - 120	2	35
4-Chlorophenyl phenyl ether	ND		19.2	14.5		ug/L		76	43 - 120	0	27
Chrysene	ND		19.2	13.0		ug/L		68	14 - 120	8	35
2-Methylnaphthalene	ND		19.2	12.8		ug/L		67	43 - 120	4	30
3 & 4 Methylphenol	ND		19.2	8.50		ug/L		44	15 - 120	10	35
Dibenz(a,h)anthracene	ND		19.2	9.84		ug/L		51	10 - 120	15	35
Dibenzofuran	ND		19.2	14.6		ug/L		76	46 - 120	2	25
3,3'-Dichlorobenzidine	ND		38.5	28.8		ug/L		75	10 - 120	3	35
2,4-Dichlorophenol	ND		19.2	12.6		ug/L		66	19 - 121	1	34
Diethyl phthalate	0.61	J B	19.2	16.6		ug/L		83	49 - 120	2	24
2,4-Dimethylphenol	ND		19.2	12.5		ug/L		65	16 - 120	4	35
Dimethyl phthalate	ND		19.2	15.5		ug/L		81	47 - 120	2	24
4,6-Dinitro-2-methylphenol	ND		38.5	25.0		ug/L		65	10 - 120	0	35
2,4-Dinitrophenol	ND		38.5	5.56		ug/L		14	10 - 120	24	35
2,4-Dinitrotoluene	ND		19.2	16.1		ug/L		84	49 - 120	1	26
Di-n-butyl phthalate	ND		19.2	15.2		ug/L		79	42 - 120	3	27
Di-n-octyl phthalate	ND		19.2	8.47		ug/L		44	13 - 120	13	35

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308835

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene	ND		19.2	15.0		ug/L		78	28 - 120	5	35
Fluorene	ND		19.2	15.0		ug/L		78	36 - 120	1	35
Hexachlorobenzene	ND		19.2	13.8		ug/L		72	31 - 120	3	26
Hexachlorobutadiene	ND		19.2	10.6		ug/L		55	30 - 120	2	35
Hexachlorocyclopentadiene	ND		19.2	10.0		ug/L		52	10 - 120	3	35
Hexachloroethane	ND		19.2	10.4		ug/L		54	12 - 120	5	35
Indeno[1,2,3-cd]pyrene	ND		19.2	10.4		ug/L		54	10 - 120	9	35
Isophorone	ND		19.2	12.7		ug/L		66	45 - 120	1	33
2-Methylphenol	ND		19.2	9.80		ug/L		51	18 - 120	7	35
Naphthalene	ND		19.2	12.3		ug/L		64	32 - 120	0	35
2-Nitroaniline	ND		19.2	15.1		ug/L		79	35 - 120	0	28
3-Nitroaniline	ND		19.2	13.3		ug/L		69	10 - 120	2	35
4-Nitroaniline	ND		19.2	15.0		ug/L		78	10 - 120	1	35
Nitrobenzene	ND		19.2	12.9		ug/L		67	48 - 120	1	35
2-Nitrophenol	ND		19.2	10.5		ug/L		54	43 - 120	2	35
4-Nitrophenol	ND		38.5	9.36		ug/L		24	10 - 120	16	35
N-Nitrosodiphenylamine	ND		19.2	14.8		ug/L		77	39 - 120	1	35
N-Nitrosodi-n-propylamine	ND		19.2	12.2		ug/L		64	45 - 120	2	33
2,2'-oxybis[1-chloropropane]	ND		19.2	12.6		ug/L		66	44 - 120	2	34
Pentachlorophenol	ND		38.5	22.6		ug/L		59	20 - 120	0	24
Phenanthrene	ND		19.2	14.9		ug/L		78	36 - 120	0	35
Phenol	ND		19.2	3.71		ug/L		19	10 - 120	18	35
Pyrene	ND		19.2	15.5		ug/L		81	28 - 120	1	35
2,4,5-Trichlorophenol	ND		19.2	14.1		ug/L		73	20 - 120	1	33
2,4,6-Trichlorophenol	ND		19.2	10.8		ug/L		56	40 - 120	1	29
2,6-Dinitrotoluene	ND		19.2	16.0		ug/L		83	48 - 120	0	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		38 - 120
2-Fluorophenol (Surr)	33		10 - 120
2,4,6-Tribromophenol (Surr)	79		28 - 120
Nitrobenzene-d5 (Surr)	70		32 - 120
Phenol-d5 (Surr)	20		10 - 120
Terphenyl-d14 (Surr)	68		23 - 127

Lab Sample ID: MB 240-309109/12-A

Matrix: Water

Analysis Batch: 309390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.044	ug/L		12/26/17 12:46	12/28/17 11:20	1
Acenaphthylene	ND		0.20	0.048	ug/L		12/26/17 12:46	12/28/17 11:20	1
Acetophenone	ND		1.0	0.34	ug/L		12/26/17 12:46	12/28/17 11:20	1
Anthracene	ND		0.20	0.088	ug/L		12/26/17 12:46	12/28/17 11:20	1
Atrazine	ND		2.0	0.34	ug/L		12/26/17 12:46	12/28/17 11:20	1
Benzaldehyde	ND		2.0	0.39	ug/L		12/26/17 12:46	12/28/17 11:20	1
Benzo[a]anthracene	ND		0.20	0.030	ug/L		12/26/17 12:46	12/28/17 11:20	1
Benzo[b]fluoranthene	ND		0.20	0.039	ug/L		12/26/17 12:46	12/28/17 11:20	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309109/12-A

Matrix: Water

Analysis Batch: 309390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.045	ug/L		12/26/17 12:46	12/28/17 11:20	1
Benzo[g,h,i]perylene	ND		0.20	0.046	ug/L		12/26/17 12:46	12/28/17 11:20	1
Benzo[a]pyrene	ND		0.20	0.051	ug/L		12/26/17 12:46	12/28/17 11:20	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		12/26/17 12:46	12/28/17 11:20	1
1,1'-Biphenyl	ND		1.0	0.13	ug/L		12/26/17 12:46	12/28/17 11:20	1
Bis(2-chloroethoxy)methane	ND		1.0	0.32	ug/L		12/26/17 12:46	12/28/17 11:20	1
Bis(2-chloroethyl)ether	ND		1.0	0.10	ug/L		12/26/17 12:46	12/28/17 11:20	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.7	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Bromophenyl phenyl ether	ND		2.0	0.22	ug/L		12/26/17 12:46	12/28/17 11:20	1
Caprolactam	ND		5.0	0.20	ug/L		12/26/17 12:46	12/28/17 11:20	1
Carbazole	ND		1.0	0.28	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Chloroaniline	ND		2.0	0.21	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Chloro-3-methylphenol	ND		2.0	0.21	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Chloronaphthalene	ND		1.0	0.10	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Chlorophenol	ND		1.0	0.29	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Chlorophenyl phenyl ether	ND		2.0	0.30	ug/L		12/26/17 12:46	12/28/17 11:20	1
Chrysene	ND		0.20	0.050	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Methylnaphthalene	ND		0.20	0.090	ug/L		12/26/17 12:46	12/28/17 11:20	1
3 & 4 Methylphenol	ND		2.0	0.80	ug/L		12/26/17 12:46	12/28/17 11:20	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		12/26/17 12:46	12/28/17 11:20	1
Dibenzofuran	ND		1.0	0.020	ug/L		12/26/17 12:46	12/28/17 11:20	1
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4-Dichlorophenol	ND		2.0	0.19	ug/L		12/26/17 12:46	12/28/17 11:20	1
Diethyl phthalate	ND		2.0	0.60	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4-Dimethylphenol	ND		2.0	0.25	ug/L		12/26/17 12:46	12/28/17 11:20	1
Dimethyl phthalate	ND		2.0	0.29	ug/L		12/26/17 12:46	12/28/17 11:20	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.4	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4-Dinitrophenol	ND		5.0	0.32	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4-Dinitrotoluene	ND		5.0	0.25	ug/L		12/26/17 12:46	12/28/17 11:20	1
Di-n-butyl phthalate	ND		5.0	1.7	ug/L		12/26/17 12:46	12/28/17 11:20	1
Di-n-octyl phthalate	ND		2.0	0.23	ug/L		12/26/17 12:46	12/28/17 11:20	1
Fluoranthene	ND		0.20	0.045	ug/L		12/26/17 12:46	12/28/17 11:20	1
Fluorene	ND		0.20	0.041	ug/L		12/26/17 12:46	12/28/17 11:20	1
Hexachlorobenzene	ND		0.20	0.085	ug/L		12/26/17 12:46	12/28/17 11:20	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L		12/26/17 12:46	12/28/17 11:20	1
Hexachlorocyclopentadiene	ND		10	0.24	ug/L		12/26/17 12:46	12/28/17 11:20	1
Hexachloroethane	ND		1.0	0.19	ug/L		12/26/17 12:46	12/28/17 11:20	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.043	ug/L		12/26/17 12:46	12/28/17 11:20	1
Isophorone	ND		1.0	0.27	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Methylphenol	ND		1.0	0.17	ug/L		12/26/17 12:46	12/28/17 11:20	1
Naphthalene	ND		0.20	0.063	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Nitroaniline	ND		2.0	0.21	ug/L		12/26/17 12:46	12/28/17 11:20	1
3-Nitroaniline	ND		2.0	0.28	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Nitroaniline	ND		2.0	0.22	ug/L		12/26/17 12:46	12/28/17 11:20	1
Nitrobenzene	ND		1.0	0.040	ug/L		12/26/17 12:46	12/28/17 11:20	1
2-Nitrophenol	ND		2.0	0.28	ug/L		12/26/17 12:46	12/28/17 11:20	1
4-Nitrophenol	ND		5.0	0.29	ug/L		12/26/17 12:46	12/28/17 11:20	1
N-Nitrosodiphenylamine	ND		1.0	0.31	ug/L		12/26/17 12:46	12/28/17 11:20	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-309109/12-A

Matrix: Water

Analysis Batch: 309390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 309109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		1.0	0.24	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,2'-oxybis[1-chloropropane]	ND		1.0	0.40	ug/L		12/26/17 12:46	12/28/17 11:20	1
Pentachlorophenol	ND		5.0	0.27	ug/L		12/26/17 12:46	12/28/17 11:20	1
Phenanthrene	ND		0.20	0.062	ug/L		12/26/17 12:46	12/28/17 11:20	1
Phenol	ND		1.0	0.60	ug/L		12/26/17 12:46	12/28/17 11:20	1
Pyrene	ND		0.20	0.042	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4,5-Trichlorophenol	ND		5.0	0.30	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,4,6-Trichlorophenol	ND		5.0	0.24	ug/L		12/26/17 12:46	12/28/17 11:20	1
2,6-Dinitrotoluene	ND		5.0	0.80	ug/L		12/26/17 12:46	12/28/17 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		38 - 120	12/26/17 12:46	12/28/17 11:20	1
2-Fluorophenol (Surr)	45		10 - 120	12/26/17 12:46	12/28/17 11:20	1
2,4,6-Tribromophenol (Surr)	83		28 - 120	12/26/17 12:46	12/28/17 11:20	1
Nitrobenzene-d5 (Surr)	71		32 - 120	12/26/17 12:46	12/28/17 11:20	1
Phenol-d5 (Surr)	31		10 - 120	12/26/17 12:46	12/28/17 11:20	1
Terphenyl-d14 (Surr)	95		23 - 127	12/26/17 12:46	12/28/17 11:20	1

Lab Sample ID: LCS 240-309109/13-A

Matrix: Water

Analysis Batch: 309390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	20.0	16.7		ug/L		84	54 - 120
Acenaphthylene	20.0	16.7		ug/L		83	53 - 120
Acetophenone	20.0	15.9		ug/L		80	56 - 120
Anthracene	20.0	17.2		ug/L		86	56 - 120
Atrazine	40.0	41.3		ug/L		103	61 - 127
Benzaldehyde	40.0	34.4		ug/L		86	47 - 134
Benzo[a]anthracene	20.0	17.7		ug/L		89	54 - 120
Benzo[b]fluoranthene	20.0	16.3		ug/L		81	53 - 120
Benzo[k]fluoranthene	20.0	16.7		ug/L		84	55 - 120
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	55 - 120
Benzo[a]pyrene	20.0	17.0		ug/L		85	54 - 120
Butyl benzyl phthalate	20.0	20.7		ug/L		103	51 - 120
1,1'-Biphenyl	20.0	17.1		ug/L		85	53 - 120
Bis(2-chloroethoxy)methane	20.0	16.2		ug/L		81	56 - 120
Bis(2-chloroethyl)ether	20.0	15.5		ug/L		78	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	20.0		ug/L		100	50 - 120
4-Bromophenyl phenyl ether	20.0	16.6		ug/L		83	54 - 120
Caprolactam	40.0	4.87	J	ug/L		12	10 - 120
Carbazole	20.0	18.0		ug/L		90	62 - 120
4-Chloroaniline	20.0	2.02		ug/L		10	10 - 120
4-Chloro-3-methylphenol	20.0	16.8		ug/L		84	54 - 120
2-Chloronaphthalene	20.0	16.5		ug/L		83	53 - 120
2-Chlorophenol	20.0	15.7		ug/L		78	53 - 120
4-Chlorophenyl phenyl ether	20.0	17.2		ug/L		86	56 - 120
Chrysene	20.0	17.2		ug/L		86	56 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-309109/13-A

Matrix: Water

Analysis Batch: 309390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	20.0	15.2		ug/L		76	54 - 120
3 & 4 Methylphenol	20.0	12.5		ug/L		63	40 - 120
Dibenz(a,h)anthracene	20.0	15.8		ug/L		79	52 - 120
Dibenzofuran	20.0	17.0		ug/L		85	55 - 120
3,3'-Dichlorobenzidine	40.0	42.7		ug/L		107	57 - 120
2,4-Dichlorophenol	20.0	16.0		ug/L		80	55 - 120
Diethyl phthalate	20.0	19.1		ug/L		95	42 - 132
2,4-Dimethylphenol	20.0	16.3		ug/L		82	52 - 120
Dimethyl phthalate	20.0	18.4		ug/L		92	56 - 120
4,6-Dinitro-2-methylphenol	40.0	33.2		ug/L		83	36 - 120
2,4-Dinitrophenol	40.0	20.0		ug/L		50	12 - 120
2,4-Dinitrotoluene	20.0	20.3		ug/L		101	60 - 120
Di-n-butyl phthalate	20.0	19.3		ug/L		97	61 - 120
Di-n-octyl phthalate	20.0	16.8		ug/L		84	58 - 120
Fluoranthene	20.0	17.6		ug/L		88	58 - 120
Fluorene	20.0	17.5		ug/L		87	56 - 120
Hexachlorobenzene	20.0	15.9		ug/L		79	51 - 120
Hexachlorobutadiene	20.0	14.2		ug/L		71	44 - 120
Hexachlorocyclopentadiene	20.0	15.6		ug/L		78	19 - 120
Hexachloroethane	20.0	14.4		ug/L		72	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		86	54 - 120
Isophorone	20.0	15.8		ug/L		79	55 - 120
2-Methylphenol	20.0	14.3		ug/L		71	46 - 120
Naphthalene	20.0	14.9		ug/L		74	53 - 120
2-Nitroaniline	20.0	19.5		ug/L		98	51 - 120
3-Nitroaniline	20.0	15.0		ug/L		75	53 - 120
4-Nitroaniline	20.0	19.7		ug/L		99	55 - 120
Nitrobenzene	20.0	15.9		ug/L		80	55 - 120
2-Nitrophenol	20.0	18.2		ug/L		91	54 - 120
4-Nitrophenol	40.0	17.1		ug/L		43	10 - 120
N-Nitrosodiphenylamine	20.0	16.8		ug/L		84	55 - 120
N-Nitrosodi-n-propylamine	20.0	16.4		ug/L		82	53 - 120
2,2'-oxybis[1-chloropropane]	20.0	16.8		ug/L		84	45 - 120
Pentachlorophenol	40.0	32.4		ug/L		81	30 - 120
Phenanthrene	20.0	16.2		ug/L		81	55 - 120
Phenol	20.0	6.73		ug/L		34	10 - 120
Pyrene	20.0	18.5		ug/L		93	57 - 120
2,4,5-Trichlorophenol	20.0	19.2		ug/L		96	54 - 120
2,4,6-Trichlorophenol	20.0	18.5		ug/L		93	54 - 120
2,6-Dinitrotoluene	20.0	19.3		ug/L		96	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	92		38 - 120
2-Fluorophenol (Surr)	55		10 - 120
2,4,6-Tribromophenol (Surr)	100		28 - 120
Nitrobenzene-d5 (Surr)	80		32 - 120
Phenol-d5 (Surr)	36		10 - 120
Terphenyl-d14 (Surr)	100		23 - 127

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 309390

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene - RE	ND	H	19.0	17.1	H	ug/L		90	35 - 120
Acenaphthylene - RE	ND	H	19.0	16.8	H	ug/L		88	36 - 120
Acetophenone - RE	ND	H	19.0	14.2	H	ug/L		75	42 - 120
Anthracene - RE	ND	H	19.0	18.0	H	ug/L		95	35 - 120
Atrazine - RE	ND	H	38.1	43.8	H	ug/L		115	47 - 121
Benzaldehyde - RE	ND	H	38.1	30.4	H	ug/L		80	46 - 120
Benzo[a]anthracene - RE	ND	H	19.0	17.2	H	ug/L		90	16 - 120
Benzo[b]fluoranthene - RE	ND	H	19.0	15.8	H	ug/L		83	10 - 120
Benzo[k]fluoranthene - RE	ND	H	19.0	14.5	H	ug/L		76	10 - 120
Benzo[g,h,i]perylene - RE	ND	H	19.0	15.9	H	ug/L		84	10 - 120
Benzo[a]pyrene - RE	ND	H	19.0	15.8	H	ug/L		83	10 - 120
Butyl benzyl phthalate - RE	ND	H	19.0	21.5	H	ug/L		113	39 - 120
1,1'-Biphenyl - RE	ND	H	19.0	16.7	H	ug/L		88	45 - 120
Bis(2-chloroethoxy)methane - RE	ND	H	19.0	14.9	H	ug/L		78	44 - 120
Bis(2-chloroethyl)ether - RE	ND	H	19.0	13.3	H	ug/L		70	42 - 120
Bis(2-ethylhexyl) phthalate - RE	ND	H	19.0	18.8	H	ug/L		99	15 - 120
4-Bromophenyl phenyl ether - RE	ND	H	19.0	17.2	H	ug/L		90	41 - 120
Caprolactam - RE	ND	H	38.1	5.83	H	ug/L		15	10 - 120
Carbazole - RE	ND	H	19.0	18.5	H	ug/L		97	55 - 120
4-Chloroaniline - RE	ND	H	19.0	3.53	H	ug/L		19	10 - 120
4-Chloro-3-methylphenol - RE	ND	H	19.0	17.0	H	ug/L		89	32 - 120
2-Chloronaphthalene - RE	ND	H	19.0	16.2	H	ug/L		85	42 - 120
2-Chlorophenol - RE	ND	H	19.0	14.1	H	ug/L		74	29 - 120
4-Chlorophenyl phenyl ether - RE	ND	H	19.0	17.9	H	ug/L		94	43 - 120
Chrysene - RE	ND	H	19.0	16.6	H	ug/L		87	14 - 120
2-Methylnaphthalene - RE	ND	H	19.0	14.5	H	ug/L		76	43 - 120
3 & 4 Methylphenol - RE	ND	H	19.0	11.4	H	ug/L		60	15 - 120
Dibenz(a,h)anthracene - RE	ND	H	19.0	14.9	H	ug/L		78	10 - 120
Dibenzofuran - RE	ND	H	19.0	17.2	H	ug/L		90	46 - 120
3,3'-Dichlorobenzidine - RE	ND	H	38.1	41.4	H	ug/L		109	10 - 120
2,4-Dichlorophenol - RE	ND	H	19.0	15.5	H	ug/L		82	19 - 121
Diethyl phthalate - RE	1.6	J H	19.0	20.4	H	ug/L		99	49 - 120
2,4-Dimethylphenol - RE	ND	H	19.0	15.6	H	ug/L		82	16 - 120
Dimethyl phthalate - RE	ND	H	19.0	19.7	H	ug/L		103	47 - 120
4,6-Dinitro-2-methylphenol - RE	ND	H	38.1	10.2	H	ug/L		27	10 - 120
2,4-Dinitrophenol - RE	ND	H	38.1	7.85	H	ug/L		21	10 - 120
2,4-Dinitrotoluene - RE	ND	H	19.0	21.3	H	ug/L		112	49 - 120
Di-n-butyl phthalate - RE	ND	H	19.0	20.2	H	ug/L		106	42 - 120
Di-n-octyl phthalate - RE	ND	H	19.0	15.9	H	ug/L		83	13 - 120
Fluoranthene - RE	ND	H	19.0	18.0	H	ug/L		94	28 - 120
Fluorene - RE	ND	H	19.0	18.0	H	ug/L		95	36 - 120
Hexachlorobenzene - RE	ND	H	19.0	15.8	H	ug/L		83	31 - 120
Hexachlorobutadiene - RE	ND	H	19.0	12.8	H	ug/L		67	30 - 120
Hexachlorocyclopentadiene - RE	ND	H	19.0	8.40	J H	ug/L		44	10 - 120
Hexachloroethane - RE	ND	H	19.0	12.6	H	ug/L		66	12 - 120
Indeno[1,2,3-cd]pyrene - RE	ND	H	19.0	15.8	H	ug/L		83	10 - 120
Isophorone - RE	ND	H	19.0	15.3	H	ug/L		80	45 - 120
2-Methylphenol - RE	ND	H	19.0	12.7	H	ug/L		67	18 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 309390

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene - RE	ND	H	19.0	14.0	H	ug/L		74	32 - 120
2-Nitroaniline - RE	ND	H	19.0	20.5	H	ug/L		108	35 - 120
3-Nitroaniline - RE	ND	H	19.0	18.6	H	ug/L		98	10 - 120
4-Nitroaniline - RE	ND	H	19.0	21.1	H	ug/L		111	10 - 120
Nitrobenzene - RE	ND	H	19.0	14.7	H	ug/L		77	48 - 120
2-Nitrophenol - RE	ND	H	19.0	16.1	H	ug/L		85	43 - 120
4-Nitrophenol - RE	ND	H	38.1	19.0	H	ug/L		50	10 - 120
N-Nitrosodiphenylamine - RE	ND	H	19.0	17.3	H	ug/L		91	39 - 120
N-Nitrosodi-n-propylamine - RE	ND	H	19.0	15.2	H	ug/L		80	45 - 120
2,2'-oxybis[1-chloropropane] - RE	ND	H	19.0	14.9	H	ug/L		78	44 - 120
Pentachlorophenol - RE	ND	H	38.1	35.7	H	ug/L		94	20 - 120
Phenanthrene - RE	ND	H	19.0	16.8	H	ug/L		88	36 - 120
Phenol - RE	ND	H	19.0	6.04	H	ug/L		32	10 - 120
Pyrene - RE	ND	H	19.0	18.5	H	ug/L		97	28 - 120
2,4,5-Trichlorophenol - RE	ND	H	19.0	19.5	H	ug/L		102	20 - 120
2,4,6-Trichlorophenol - RE	ND	H	19.0	18.7	H	ug/L		98	40 - 120
2,6-Dinitrotoluene - RE	ND	H	19.0	19.9	H	ug/L		104	48 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr) - RE	93		38 - 120
2-Fluorophenol (Surr) - RE	50		10 - 120
2,4,6-Tribromophenol (Surr) - RE	112		28 - 120
Nitrobenzene-d5 (Surr) - RE	77		32 - 120
Phenol-d5 (Surr) - RE	33		10 - 120
Terphenyl-d14 (Surr) - RE	97		23 - 127

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 309390

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene - RE	ND	H	19.0	15.4	H	ug/L		81	35 - 120	11	35
Acenaphthylene - RE	ND	H	19.0	15.2	H	ug/L		80	36 - 120	10	35
Acetophenone - RE	ND	H	19.0	13.5	H	ug/L		71	42 - 120	5	31
Anthracene - RE	ND	H	19.0	17.5	H	ug/L		92	35 - 120	3	35
Atrazine - RE	ND	H	38.1	42.3	H	ug/L		111	47 - 121	4	25
Benzaldehyde - RE	ND	H	38.1	28.5	H	ug/L		75	46 - 120	6	35
Benzo[a]anthracene - RE	ND	H	19.0	16.3	H	ug/L		86	16 - 120	5	35
Benzo[b]fluoranthene - RE	ND	H	19.0	14.3	H	ug/L		75	10 - 120	10	35
Benzo[k]fluoranthene - RE	ND	H	19.0	13.4	H	ug/L		70	10 - 120	8	35
Benzo[g,h,i]perylene - RE	ND	H	19.0	14.6	H	ug/L		77	10 - 120	8	35
Benzo[a]pyrene - RE	ND	H	19.0	14.5	H	ug/L		76	10 - 120	9	35
Butyl benzyl phthalate - RE	ND	H	19.0	20.5	H	ug/L		108	39 - 120	5	30
1,1'-Biphenyl - RE	ND	H	19.0	15.0	H	ug/L		79	45 - 120	11	26
Bis(2-chloroethoxy)methane - RE	ND	H	19.0	14.4	H	ug/L		75	44 - 120	3	32
Bis(2-chloroethyl)ether - RE	ND	H	19.0	12.6	H	ug/L		66	42 - 120	6	35

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 309390

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate - RE	ND	H	19.0	16.9	H	ug/L		89	15 - 120	11	35
4-Bromophenyl phenyl ether - RE	ND	H	19.0	16.3	H	ug/L		85	41 - 120	5	27
Caprolactam - RE	ND	H	38.1	4.85	H	ug/L		13	10 - 120	18	33
Carbazole - RE	ND	H	19.0	18.5	H	ug/L		97	55 - 120	0	24
4-Chloroaniline - RE	ND	H	19.0	2.88	H	ug/L		15	10 - 120	20	35
4-Chloro-3-methylphenol - RE	ND	H	19.0	15.8	H	ug/L		83	32 - 120	7	32
2-Chloronaphthalene - RE	ND	H	19.0	14.6	H	ug/L		77	42 - 120	10	28
2-Chlorophenol - RE	ND	H	19.0	12.9	H	ug/L		67	29 - 120	9	35
4-Chlorophenyl phenyl ether - RE	ND	H	19.0	16.4	H	ug/L		86	43 - 120	9	27
Chrysene - RE	ND	H	19.0	15.7	H	ug/L		82	14 - 120	6	35
2-Methylnaphthalene - RE	ND	H	19.0	13.9	H	ug/L		73	43 - 120	4	30
3 & 4 Methylphenol - RE	ND	H	19.0	10.0	H	ug/L		53	15 - 120	12	35
Dibenz(a,h)anthracene - RE	ND	H	19.0	13.7	H	ug/L		72	10 - 120	8	35
Dibenzofuran - RE	ND	H	19.0	15.8	H	ug/L		83	46 - 120	9	25
3,3'-Dichlorobenzidine - RE	ND	H	38.1	40.4	H	ug/L		106	10 - 120	2	35
2,4-Dichlorophenol - RE	ND	H	19.0	14.7	H	ug/L		77	19 - 121	5	34
Diethyl phthalate - RE	1.6	J H	19.0	19.2	H	ug/L		93	49 - 120	6	24
2,4-Dimethylphenol - RE	ND	H	19.0	14.4	H	ug/L		76	16 - 120	8	35
Dimethyl phthalate - RE	ND	H	19.0	18.1	H	ug/L		95	47 - 120	8	24
4,6-Dinitro-2-methylphenol - RE	ND	H	38.1	12.2	H	ug/L		32	10 - 120	18	35
2,4-Dinitrophenol - RE	ND	H	38.1	8.83	H	ug/L		23	10 - 120	12	35
2,4-Dinitrotoluene - RE	ND	H	19.0	19.9	H	ug/L		104	49 - 120	7	26
Di-n-butyl phthalate - RE	ND	H	19.0	19.7	H	ug/L		103	42 - 120	2	27
Di-n-octyl phthalate - RE	ND	H	19.0	14.1	H	ug/L		74	13 - 120	12	35
Fluoranthene - RE	ND	H	19.0	17.8	H	ug/L		94	28 - 120	1	35
Fluorene - RE	ND	H	19.0	16.5	H	ug/L		87	36 - 120	9	35
Hexachlorobenzene - RE	ND	H	19.0	15.3	H	ug/L		80	31 - 120	3	26
Hexachlorobutadiene - RE	ND	H	19.0	12.1	H	ug/L		64	30 - 120	5	35
Hexachlorocyclopentadiene - RE	ND	H	19.0	7.71	J H	ug/L		40	10 - 120	9	35
Hexachloroethane - RE	ND	H	19.0	11.3	H	ug/L		60	12 - 120	10	35
Indeno[1,2,3-cd]pyrene - RE	ND	H	19.0	14.6	H	ug/L		77	10 - 120	8	35
Isophorone - RE	ND	H	19.0	14.4	H	ug/L		76	45 - 120	6	33
2-Methylphenol - RE	ND	H	19.0	11.4	H	ug/L		60	18 - 120	11	35
Naphthalene - RE	ND	H	19.0	13.3	H	ug/L		70	32 - 120	5	35
2-Nitroaniline - RE	ND	H	19.0	19.2	H	ug/L		101	35 - 120	7	28
3-Nitroaniline - RE	ND	H	19.0	16.7	H	ug/L		88	10 - 120	11	35
4-Nitroaniline - RE	ND	H	19.0	19.9	H	ug/L		104	10 - 120	6	35
Nitrobenzene - RE	ND	H	19.0	14.1	H	ug/L		74	48 - 120	4	35
2-Nitrophenol - RE	ND	H	19.0	15.5	H	ug/L		81	43 - 120	4	35
4-Nitrophenol - RE	ND	H	38.1	15.7	H	ug/L		41	10 - 120	19	35
N-Nitrosodiphenylamine - RE	ND	H	19.0	16.7	H	ug/L		88	39 - 120	3	35
N-Nitrosodi-n-propylamine - RE	ND	H	19.0	14.2	H	ug/L		75	45 - 120	7	33
2,2'-oxybis[1-chloropropane] - RE	ND	H	19.0	13.9	H	ug/L		73	44 - 120	7	34
Pentachlorophenol - RE	ND	H	38.1	33.6	H	ug/L		88	20 - 120	6	24
Phenanthrene - RE	ND	H	19.0	16.4	H	ug/L		86	36 - 120	2	35
Phenol - RE	ND	H	19.0	5.13	H	ug/L		27	10 - 120	16	35
Pyrene - RE	ND	H	19.0	18.3	H	ug/L		96	28 - 120	1	35

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 309390

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 309109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol - RE	ND	H	19.0	17.6	H	ug/L		92	20 - 120	11	33
2,4,6-Trichlorophenol - RE	ND	H	19.0	17.3	H	ug/L		91	40 - 120	8	29
2,6-Dinitrotoluene - RE	ND	H	19.0	18.5	H	ug/L		97	48 - 120	7	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Fluorobiphenyl (Surr) - RE	84		38 - 120								
2-Fluorophenol (Surr) - RE	42		10 - 120								
2,4,6-Tribromophenol (Surr) - RE	104		28 - 120								
Nitrobenzene-d5 (Surr) - RE	73		32 - 120								
Phenol-d5 (Surr) - RE	28		10 - 120								
Terphenyl-d14 (Surr) - RE	89		23 - 127								

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 240-308106/4

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/18/17 10:55	1

Lab Sample ID: LCS 240-308106/5

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	788		ug/L		98	80 - 120

Lab Sample ID: LCSD 240-308106/28

Matrix: Water

Analysis Batch: 308106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	686		ug/L		86	80 - 120	14	20

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308106

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	ND		800	665		ug/L		83	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308106

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	ND		800	746		ug/L		93	80 - 120	12	20

Lab Sample ID: MB 240-308249/4

Matrix: Water

Analysis Batch: 308249

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C6-C10)	ND		100	40	ug/L			12/19/17 08:01	1

Lab Sample ID: LCS 240-308249/5

Matrix: Water

Analysis Batch: 308249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C6-C10)	800	792		ug/L		99	80 - 120

Lab Sample ID: LCSD 240-308249/7

Matrix: Water

Analysis Batch: 308249

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C6-C10)	800	760		ug/L		95	80 - 120	4	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-308318/15-A

Matrix: Water

Analysis Batch: 308545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		0.20	0.050	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/19/17 10:30	12/20/17 21:22	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/19/17 10:30	12/20/17 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		10 - 120	12/19/17 10:30	12/20/17 21:22	1
Tetrachloro-m-xylene	60		22 - 120	12/19/17 10:30	12/20/17 21:22	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-308318/16-A

Matrix: Water

Analysis Batch: 308545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308318

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Aroclor-1016			2.50	1.70		ug/L		68	28 - 120		
Aroclor-1260			2.50	2.43		ug/L		97	30 - 120		
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
DCB Decachlorobiphenyl	88		10 - 120								
Tetrachloro-m-xylene	63		22 - 120								

Lab Sample ID: MB 240-308637/18-A

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308637

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	ND		0.20	0.050	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1221	ND		0.20	0.090	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1232	ND		0.20	0.070	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1242	ND		0.20	0.060	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1248	ND		0.20	0.050	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1254	ND		0.20	0.030	ug/L		12/21/17 07:29	12/22/17 11:27	1
Aroclor-1260	ND		0.20	0.040	ug/L		12/21/17 07:29	12/22/17 11:27	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	%Recovery	Qualifier					12/21/17 07:29	12/22/17 11:27	1
Tetrachloro-m-xylene	67		10 - 120				12/21/17 07:29	12/22/17 11:27	1
	62		22 - 120				12/21/17 07:29	12/22/17 11:27	1

Lab Sample ID: LCS 240-308637/19-A

Matrix: Water

Analysis Batch: 308801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308637

			Spike	LCS	LCS					
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Aroclor-1016			2.50	1.86		ug/L		75	28 - 120	
Aroclor-1260			2.50	2.24		ug/L		90	30 - 120	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl	78		10 - 120							
Tetrachloro-m-xylene	82		22 - 120							

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308801

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308637

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aroclor-1016	ND	*	2.38	1.74		ug/L		73	14 - 120		
Aroclor-1260	ND	*	2.38	2.14		ug/L		90	10 - 120		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
DCB Decachlorobiphenyl	71		10 - 120								
Tetrachloro-m-xylene	80		22 - 120								

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308801

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	ND	*	2.38	1.81		ug/L		76	14 - 120	4	30
Aroclor-1260	ND	*	2.38	2.30		ug/L		97	10 - 120	7	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	79		10 - 120								
Tetrachloro-m-xylene	85		22 - 120								

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-308133/19-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.0276	J	0.10	0.020	mg/L		12/18/17 10:23	12/19/17 18:43	1

Lab Sample ID: LCS 240-308133/20-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
WI Diesel Range Organics (C10-C28)	0.500	0.445		mg/L		89	75 - 115			

Lab Sample ID: LCSD 240-308133/21-A

Matrix: Water

Analysis Batch: 308394

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.500	0.489		mg/L		98	75 - 115	10	20

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308394

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.320	F1	mg/L		57	60 - 130		

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308394

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	0.050	J F1 B	0.476	0.331	F1	mg/L		59	60 - 130	3	25

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-308170/1-A
Matrix: Water
Analysis Batch: 308336

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		200	1.3	ug/L		12/18/17 14:00	12/19/17 16:04	1
Aluminum	ND		200	47	ug/L		12/18/17 14:00	12/19/17 16:04	1
Cadmium	ND		5.0	0.20	ug/L		12/18/17 14:00	12/19/17 16:04	1
Chromium	ND		10	0.63	ug/L		12/18/17 14:00	12/19/17 16:04	1
Silver	ND		10	0.62	ug/L		12/18/17 14:00	12/19/17 16:04	1
Arsenic	ND		10	4.1	ug/L		12/18/17 14:00	12/19/17 16:04	1
Beryllium	ND		5.0	0.60	ug/L		12/18/17 14:00	12/19/17 16:04	1
Lead	ND		3.0	2.8	ug/L		12/18/17 14:00	12/19/17 16:04	1
Calcium	ND		5000	310	ug/L		12/18/17 14:00	12/19/17 16:04	1
Cobalt	ND		7.0	0.75	ug/L		12/18/17 14:00	12/19/17 16:04	1
Copper	ND		25	3.5	ug/L		12/18/17 14:00	12/19/17 16:04	1
Iron	ND		100	26	ug/L		12/18/17 14:00	12/19/17 16:04	1
Potassium	ND		5000	560	ug/L		12/18/17 14:00	12/19/17 16:04	1
Magnesium	ND		5000	780	ug/L		12/18/17 14:00	12/19/17 16:04	1
Manganese	ND		15	2.1	ug/L		12/18/17 14:00	12/19/17 16:04	1
Sodium	ND		5000	560	ug/L		12/18/17 14:00	12/19/17 16:04	1
Nickel	ND		40	2.2	ug/L		12/18/17 14:00	12/19/17 16:04	1
Antimony	ND		10	7.5	ug/L		12/18/17 14:00	12/19/17 16:04	1
Vanadium	ND		10	5.6	ug/L		12/18/17 14:00	12/19/17 16:04	1
Zinc	ND		50	9.7	ug/L		12/18/17 14:00	12/19/17 16:04	1

Lab Sample ID: LCS 240-308170/2-A
Matrix: Water
Analysis Batch: 308336

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2090		ug/L		104	80 - 120
Aluminum	2000	2110		ug/L		105	80 - 120
Cadmium	50.0	54.8		ug/L		110	80 - 120
Chromium	200	211		ug/L		105	80 - 120
Silver	50.0	52.8		ug/L		106	80 - 120
Arsenic	2000	2190		ug/L		109	80 - 120
Beryllium	50.0	52.3		ug/L		105	80 - 120
Lead	500	521		ug/L		104	80 - 120
Calcium	50000	51600		ug/L		103	80 - 120
Cobalt	500	516		ug/L		103	80 - 120
Copper	250	262		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Potassium	50000	51400		ug/L		103	80 - 120
Magnesium	50000	51600		ug/L		103	80 - 120
Manganese	500	541		ug/L		108	80 - 120
Sodium	50000	52100		ug/L		104	80 - 120
Nickel	500	532		ug/L		106	80 - 120
Antimony	500	536		ug/L		107	80 - 120
Vanadium	500	533		ug/L		107	80 - 120
Zinc	500	538		ug/L		108	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308336

Client Sample ID: AMW-23B (20171214)

Prep Type: Dissolved

Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	210		2000	2340		ug/L		106	75 - 125
Aluminum	ND		2000	2160		ug/L		108	75 - 125
Cadmium	ND		50.0	56.2		ug/L		112	75 - 125
Chromium	ND		200	212		ug/L		106	75 - 125
Silver	ND		50.0	53.8		ug/L		108	75 - 125
Arsenic	5.6 J		2000	2260		ug/L		112	75 - 125
Beryllium	ND		50.0	53.3		ug/L		107	75 - 125
Lead	ND		500	524		ug/L		105	75 - 125
Calcium	83000		50000	134000		ug/L		103	75 - 125
Cobalt	ND		500	532		ug/L		106	75 - 125
Copper	ND		250	267		ug/L		107	75 - 125
Iron	3500		1000	4480		ug/L		98	75 - 125
Potassium	2100 J		50000	54900		ug/L		106	75 - 125
Magnesium	28000		50000	80200		ug/L		103	75 - 125
Manganese	230		500	776		ug/L		109	75 - 125
Sodium	10000		50000	63300		ug/L		106	75 - 125
Nickel	ND		500	547		ug/L		109	75 - 125
Antimony	ND		500	551		ug/L		110	75 - 125
Vanadium	ND		500	530		ug/L		106	75 - 125
Zinc	ND		500	556		ug/L		111	75 - 125

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308336

Client Sample ID: AMW-23B (20171214)

Prep Type: Dissolved

Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Barium	210		2000	2380		ug/L		109	75 - 125	2	20
Aluminum	ND		2000	2180		ug/L		109	75 - 125	1	20
Cadmium	ND		50.0	57.1		ug/L		114	75 - 125	2	20
Chromium	ND		200	218		ug/L		109	75 - 125	3	20
Silver	ND		50.0	56.7		ug/L		113	75 - 125	5	20
Arsenic	5.6 J		2000	2290		ug/L		114	75 - 125	1	20
Beryllium	ND		50.0	54.3		ug/L		109	75 - 125	2	20
Lead	ND		500	533		ug/L		107	75 - 125	2	20
Calcium	83000		50000	138000		ug/L		110	75 - 125	3	20
Cobalt	ND		500	540		ug/L		108	75 - 125	1	20
Copper	ND		250	277		ug/L		111	75 - 125	4	20
Iron	3500		1000	4590		ug/L		109	75 - 125	2	20
Potassium	2100 J		50000	56700		ug/L		109	75 - 125	3	20
Magnesium	28000		50000	82600		ug/L		108	75 - 125	3	20
Manganese	230		500	799		ug/L		114	75 - 125	3	20
Sodium	10000		50000	65300		ug/L		111	75 - 125	3	20
Nickel	ND		500	552		ug/L		110	75 - 125	1	20
Antimony	ND		500	559		ug/L		112	75 - 125	1	20
Vanadium	ND		500	535		ug/L		107	75 - 125	1	20
Zinc	ND		500	558		ug/L		112	75 - 125	0	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-308170/1-A
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.89	ug/L		12/18/17 14:00	12/20/17 10:59	1
Thallium	ND		1.0	0.20	ug/L		12/18/17 14:00	12/20/17 10:59	1

Lab Sample ID: LCS 240-308170/3-A
Matrix: Water
Analysis Batch: 308636

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 308170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1000	1000		ug/L		100	80 - 120
Thallium	250	262		ug/L		105	80 - 120

Lab Sample ID: 240-89451-7 MS
Matrix: Water
Analysis Batch: 308636

Client Sample ID: AMW-23B (20171214)
Prep Type: Dissolved
Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		1000	960		ug/L		96	75 - 125
Thallium	ND		250	254		ug/L		102	75 - 125

Lab Sample ID: 240-89451-7 MSD
Matrix: Water
Analysis Batch: 308636

Client Sample ID: AMW-23B (20171214)
Prep Type: Dissolved
Prep Batch: 308170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		1000	964		ug/L		96	75 - 125	0	20
Thallium	ND		250	260		ug/L		104	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-308181/1-A
Matrix: Water
Analysis Batch: 308470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		12/18/17 14:00	12/19/17 19:42	1

Lab Sample ID: LCS 240-308181/2-A
Matrix: Water
Analysis Batch: 308470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.25		ug/L		105	80 - 120

Lab Sample ID: 240-89451-7 MS
Matrix: Water
Analysis Batch: 308470

Client Sample ID: AMW-23B (20171214)
Prep Type: Dissolved
Prep Batch: 308181

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.12		ug/L		112	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308470

Client Sample ID: AMW-23B (20171214)

Prep Type: Dissolved

Prep Batch: 308181

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.07		ug/L		107	80 - 120	4	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-308329/1-A

Matrix: Water

Analysis Batch: 308386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 308329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0020	mg/L		12/19/17 11:16	12/19/17 13:31	1

Lab Sample ID: LCS 240-308329/2-A

Matrix: Water

Analysis Batch: 308386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 308329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.598	0.564		mg/L		94	59 - 129

Lab Sample ID: 240-89451-7 MS

Matrix: Water

Analysis Batch: 308386

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0021	J	0.0400	0.0396		mg/L		94	22 - 135

Lab Sample ID: 240-89451-7 MSD

Matrix: Water

Analysis Batch: 308386

Client Sample ID: AMW-23B (20171214)

Prep Type: Total/NA

Prep Batch: 308329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0021	J	0.0400	0.0389		mg/L		92	22 - 135	2	40

Lab Sample ID: MRL 240-308386/12

Matrix: Water

Analysis Batch: 308386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00920	J	mg/L		92	70 - 130

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

GC/MS VOA

Analysis Batch: 309056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	8260B	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	8260B	
240-89451-9	TRIP BLANK AMW-19	Total/NA	Water	8260B	
240-89451-10	TRIP BLANK DUP-01	Total/NA	Water	8260B	
MB 240-309056/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309056/4	Lab Control Sample	Total/NA	Water	8260B	
240-89452-B-32 MS	Matrix Spike	Total/NA	Water	8260B	
240-89452-H-32 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 309234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-3	AMW-25 (20171214)	Total/NA	Water	8260B	
240-89451-4	AMW-20 (20171214)	Total/NA	Water	8260B	
240-89451-5	DUP-02 (20171214)	Total/NA	Water	8260B	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	8260B	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	8260B	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	8260B	
240-89451-11	TRIP BLANK AMW-25	Total/NA	Water	8260B	
MB 240-309234/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309234/4	Lab Control Sample	Total/NA	Water	8260B	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	8260B	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	8260B	

Analysis Batch: 309421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-12	TRIP BLANK AMW-20	Total/NA	Water	8260B	
240-89451-13	TRIP BLANK DUP-02	Total/NA	Water	8260B	
240-89451-14	TRIP BLANK AMW-24	Total/NA	Water	8260B	
240-89451-15	TRIP BLANK AMW-23B	Total/NA	Water	8260B	
240-89451-16	TRIP BLANK AMW-23B MS	Total/NA	Water	8260B	
240-89451-17	TRIP BLANK AMW-23B MSD	Total/NA	Water	8260B	
240-89451-18	TRIP BLANK AMW-23	Total/NA	Water	8260B	
MB 240-309421/6	Method Blank	Total/NA	Water	8260B	
LCS 240-309421/4	Lab Control Sample	Total/NA	Water	8260B	
240-89452-A-40 MS	Matrix Spike	Total/NA	Water	8260B	
240-89452-A-40 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 308397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	3510C	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	3510C	
240-89451-3	AMW-25 (20171214)	Total/NA	Water	3510C	
MB 240-308397/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308397/20-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 308680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-4	AMW-20 (20171214)	Total/NA	Water	3510C	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

GC/MS Semi VOA (Continued)

Prep Batch: 308680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-5	DUP-02 (20171214)	Total/NA	Water	3510C	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	3510C	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	3510C	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	3510C	
MB 240-308680/16-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308680/17-A	Lab Control Sample	Total/NA	Water	3510C	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	3510C	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	3510C	

Analysis Batch: 308835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	8270C	308397
240-89451-2	DUP-01 (20171213)	Total/NA	Water	8270C	308397
240-89451-3	AMW-25 (20171214)	Total/NA	Water	8270C	308397
240-89451-4	AMW-20 (20171214)	Total/NA	Water	8270C	308680
240-89451-5	DUP-02 (20171214)	Total/NA	Water	8270C	308680
240-89451-7	AMW-23B (20171214)	Total/NA	Water	8270C	308680
MB 240-308397/19-A	Method Blank	Total/NA	Water	8270C	308397
MB 240-308680/16-A	Method Blank	Total/NA	Water	8270C	308680
LCS 240-308397/20-A	Lab Control Sample	Total/NA	Water	8270C	308397
LCS 240-308680/17-A	Lab Control Sample	Total/NA	Water	8270C	308680
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	8270C	308680
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	8270C	308680

Analysis Batch: 309051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-6	AMW-24 (20171214)	Total/NA	Water	8270C	308680
240-89451-8	AMW-23 (20171214)	Total/NA	Water	8270C	308680

Prep Batch: 309109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-4 - RE	AMW-20 (20171214)	Total/NA	Water	3510C	
240-89451-5 - RE	DUP-02 (20171214)	Total/NA	Water	3510C	
240-89451-7 - RE	AMW-23B (20171214)	Total/NA	Water	3510C	
MB 240-309109/12-A	Method Blank	Total/NA	Water	3510C	
LCS 240-309109/13-A	Lab Control Sample	Total/NA	Water	3510C	
240-89451-7 MS - RE	AMW-23B (20171214)	Total/NA	Water	3510C	
240-89451-7 MSD - RE	AMW-23B (20171214)	Total/NA	Water	3510C	

Analysis Batch: 309390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-4 - RE	AMW-20 (20171214)	Total/NA	Water	8270C	309109
240-89451-5 - RE	DUP-02 (20171214)	Total/NA	Water	8270C	309109
240-89451-7 - RE	AMW-23B (20171214)	Total/NA	Water	8270C	309109
MB 240-309109/12-A	Method Blank	Total/NA	Water	8270C	309109
LCS 240-309109/13-A	Lab Control Sample	Total/NA	Water	8270C	309109
240-89451-7 MS - RE	AMW-23B (20171214)	Total/NA	Water	8270C	309109
240-89451-7 MSD - RE	AMW-23B (20171214)	Total/NA	Water	8270C	309109

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

GC VOA

Analysis Batch: 308106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	WI-GRO	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	WI-GRO	
240-89451-4	AMW-20 (20171214)	Total/NA	Water	WI-GRO	
240-89451-5	DUP-02 (20171214)	Total/NA	Water	WI-GRO	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	WI-GRO	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	WI-GRO	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	WI-GRO	
240-89451-19	TRIP BLANK WI GRO	Total/NA	Water	WI-GRO	
MB 240-308106/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308106/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-308106/28	Lab Control Sample Dup	Total/NA	Water	WI-GRO	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	WI-GRO	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	WI-GRO	

Analysis Batch: 308249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-3	AMW-25 (20171214)	Total/NA	Water	WI-GRO	
MB 240-308249/4	Method Blank	Total/NA	Water	WI-GRO	
LCS 240-308249/5	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 240-308249/7	Lab Control Sample Dup	Total/NA	Water	WI-GRO	

GC Semi VOA

Prep Batch: 308133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	3510C	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	3510C	
240-89451-3	AMW-25 (20171214)	Total/NA	Water	3510C	
240-89451-4	AMW-20 (20171214)	Total/NA	Water	3510C	
240-89451-5	DUP-02 (20171214)	Total/NA	Water	3510C	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	3510C	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	3510C	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	3510C	
MB 240-308133/19-A	Method Blank	Total/NA	Water	3510C	
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	3510C	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	3510C	

Prep Batch: 308318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	3520C	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	3520C	
MB 240-308318/15-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308318/16-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 308394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	WI-DRO	308133
240-89451-2	DUP-01 (20171213)	Total/NA	Water	WI-DRO	308133

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

GC Semi VOA (Continued)

Analysis Batch: 308394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-4	AMW-20 (20171214)	Total/NA	Water	WI-DRO	308133
240-89451-5	DUP-02 (20171214)	Total/NA	Water	WI-DRO	308133
240-89451-6	AMW-24 (20171214)	Total/NA	Water	WI-DRO	308133
240-89451-7	AMW-23B (20171214)	Total/NA	Water	WI-DRO	308133
240-89451-8	AMW-23 (20171214)	Total/NA	Water	WI-DRO	308133
MB 240-308133/19-A	Method Blank	Total/NA	Water	WI-DRO	308133
LCS 240-308133/20-A	Lab Control Sample	Total/NA	Water	WI-DRO	308133
LCSD 240-308133/21-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	308133
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	WI-DRO	308133
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	WI-DRO	308133

Analysis Batch: 308540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-3	AMW-25 (20171214)	Total/NA	Water	WI-DRO	308133

Analysis Batch: 308545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	8082	308318
240-89451-2	DUP-01 (20171213)	Total/NA	Water	8082	308318
MB 240-308318/15-A	Method Blank	Total/NA	Water	8082	308318
LCS 240-308318/16-A	Lab Control Sample	Total/NA	Water	8082	308318

Prep Batch: 308637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-3	AMW-25 (20171214)	Total/NA	Water	3520C	
240-89451-4	AMW-20 (20171214)	Total/NA	Water	3520C	
240-89451-5	DUP-02 (20171214)	Total/NA	Water	3520C	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	3520C	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	3520C	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	3520C	
MB 240-308637/18-A	Method Blank	Total/NA	Water	3520C	
LCS 240-308637/19-A	Lab Control Sample	Total/NA	Water	3520C	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	3520C	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	3520C	

Analysis Batch: 308801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-3	AMW-25 (20171214)	Total/NA	Water	8082	308637
240-89451-4	AMW-20 (20171214)	Total/NA	Water	8082	308637
240-89451-5	DUP-02 (20171214)	Total/NA	Water	8082	308637
240-89451-6	AMW-24 (20171214)	Total/NA	Water	8082	308637
240-89451-7	AMW-23B (20171214)	Total/NA	Water	8082	308637
240-89451-8	AMW-23 (20171214)	Total/NA	Water	8082	308637
MB 240-308637/18-A	Method Blank	Total/NA	Water	8082	308637
LCS 240-308637/19-A	Lab Control Sample	Total/NA	Water	8082	308637
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	8082	308637
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	8082	308637

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Metals

Prep Batch: 308170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Dissolved	Water	3005A	
240-89451-2	DUP-01 (20171213)	Dissolved	Water	3005A	
240-89451-3	AMW-25 (20171214)	Dissolved	Water	3005A	
240-89451-4	AMW-20 (20171214)	Dissolved	Water	3005A	
240-89451-5	DUP-02 (20171214)	Dissolved	Water	3005A	
240-89451-6	AMW-24 (20171214)	Dissolved	Water	3005A	
240-89451-7	AMW-23B (20171214)	Dissolved	Water	3005A	
240-89451-8	AMW-23 (20171214)	Dissolved	Water	3005A	
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-308170/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-308170/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	3005A	
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	3005A	
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	3005A	
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	3005A	

Prep Batch: 308181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Dissolved	Water	7470A	
240-89451-2	DUP-01 (20171213)	Dissolved	Water	7470A	
240-89451-3	AMW-25 (20171214)	Dissolved	Water	7470A	
240-89451-4	AMW-20 (20171214)	Dissolved	Water	7470A	
240-89451-5	DUP-02 (20171214)	Dissolved	Water	7470A	
240-89451-6	AMW-24 (20171214)	Dissolved	Water	7470A	
240-89451-7	AMW-23B (20171214)	Dissolved	Water	7470A	
240-89451-8	AMW-23 (20171214)	Dissolved	Water	7470A	
MB 240-308181/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-308181/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	7470A	
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	7470A	

Analysis Batch: 308336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Dissolved	Water	6010B	308170
240-89451-2	DUP-01 (20171213)	Dissolved	Water	6010B	308170
240-89451-3	AMW-25 (20171214)	Dissolved	Water	6010B	308170
240-89451-4	AMW-20 (20171214)	Dissolved	Water	6010B	308170
240-89451-5	DUP-02 (20171214)	Dissolved	Water	6010B	308170
240-89451-6	AMW-24 (20171214)	Dissolved	Water	6010B	308170
240-89451-7	AMW-23B (20171214)	Dissolved	Water	6010B	308170
240-89451-8	AMW-23 (20171214)	Dissolved	Water	6010B	308170
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	6010B	308170
LCS 240-308170/2-A	Lab Control Sample	Total Recoverable	Water	6010B	308170
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	6010B	308170
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	6010B	308170

Analysis Batch: 308470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Dissolved	Water	7470A	308181
240-89451-2	DUP-01 (20171213)	Dissolved	Water	7470A	308181
240-89451-3	AMW-25 (20171214)	Dissolved	Water	7470A	308181

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Metals (Continued)

Analysis Batch: 308470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-4	AMW-20 (20171214)	Dissolved	Water	7470A	308181
240-89451-5	DUP-02 (20171214)	Dissolved	Water	7470A	308181
240-89451-6	AMW-24 (20171214)	Dissolved	Water	7470A	308181
240-89451-7	AMW-23B (20171214)	Dissolved	Water	7470A	308181
240-89451-8	AMW-23 (20171214)	Dissolved	Water	7470A	308181
MB 240-308181/1-A	Method Blank	Total/NA	Water	7470A	308181
LCS 240-308181/2-A	Lab Control Sample	Total/NA	Water	7470A	308181
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	7470A	308181
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	7470A	308181

Analysis Batch: 308636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Dissolved	Water	6020A	308170
240-89451-2	DUP-01 (20171213)	Dissolved	Water	6020A	308170
240-89451-3	AMW-25 (20171214)	Dissolved	Water	6020A	308170
240-89451-4	AMW-20 (20171214)	Dissolved	Water	6020A	308170
240-89451-5	DUP-02 (20171214)	Dissolved	Water	6020A	308170
240-89451-6	AMW-24 (20171214)	Dissolved	Water	6020A	308170
240-89451-7	AMW-23B (20171214)	Dissolved	Water	6020A	308170
240-89451-8	AMW-23 (20171214)	Dissolved	Water	6020A	308170
MB 240-308170/1-A	Method Blank	Total Recoverable	Water	6020A	308170
LCS 240-308170/3-A	Lab Control Sample	Total Recoverable	Water	6020A	308170
240-89451-7 MS	AMW-23B (20171214)	Dissolved	Water	6020A	308170
240-89451-7 MSD	AMW-23B (20171214)	Dissolved	Water	6020A	308170

General Chemistry

Prep Batch: 308329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	9012A	
240-89451-2	DUP-01 (20171213)	Total/NA	Water	9012A	
240-89451-3	AMW-25 (20171214)	Total/NA	Water	9012A	
240-89451-4	AMW-20 (20171214)	Total/NA	Water	9012A	
240-89451-5	DUP-02 (20171214)	Total/NA	Water	9012A	
240-89451-6	AMW-24 (20171214)	Total/NA	Water	9012A	
240-89451-7	AMW-23B (20171214)	Total/NA	Water	9012A	
240-89451-8	AMW-23 (20171214)	Total/NA	Water	9012A	
MB 240-308329/1-A	Method Blank	Total/NA	Water	9012A	
LCS 240-308329/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	9012A	
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	9012A	

Analysis Batch: 308386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-1	AMW-19 (20171213)	Total/NA	Water	9012A	308329
240-89451-2	DUP-01 (20171213)	Total/NA	Water	9012A	308329
240-89451-3	AMW-25 (20171214)	Total/NA	Water	9012A	308329
240-89451-4	AMW-20 (20171214)	Total/NA	Water	9012A	308329
240-89451-5	DUP-02 (20171214)	Total/NA	Water	9012A	308329
240-89451-6	AMW-24 (20171214)	Total/NA	Water	9012A	308329

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

General Chemistry (Continued)

Analysis Batch: 308386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-89451-7	AMW-23B (20171214)	Total/NA	Water	9012A	308329
240-89451-8	AMW-23 (20171214)	Total/NA	Water	9012A	308329
MB 240-308329/1-A	Method Blank	Total/NA	Water	9012A	308329
LCS 240-308329/2-A	Lab Control Sample	Total/NA	Water	9012A	308329
MRL 240-308386/12	Lab Control Sample	Total/NA	Water	9012A	
240-89451-7 MS	AMW-23B (20171214)	Total/NA	Water	9012A	308329
240-89451-7 MSD	AMW-23B (20171214)	Total/NA	Water	9012A	308329

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-19 (20171213)

Date Collected: 12/13/17 16:50

Date Received: 12/15/17 09:50

Lab Sample ID: 240-89451-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309056	12/26/17 18:04	LEE	TAL CAN
Total/NA	Prep	3510C			308397	12/20/17 07:00	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 16:31	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 16:15	RTR	TAL CAN
Total/NA	Prep	3520C			308318	12/19/17 10:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	308545	12/20/17 20:43	KMG	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 19:37	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:20	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 11:52	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 19:56	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 13:56	MMM	TAL CAN

Client Sample ID: DUP-01 (20171213)

Date Collected: 12/13/17 16:50

Date Received: 12/15/17 09:50

Lab Sample ID: 240-89451-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309056	12/26/17 18:27	LEE	TAL CAN
Total/NA	Prep	3510C			308397	12/20/17 07:00	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 16:56	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 16:55	RTR	TAL CAN
Total/NA	Prep	3520C			308318	12/19/17 10:30	WKD	TAL CAN
Total/NA	Analysis	8082		1	308545	12/20/17 21:02	KMG	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 20:04	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:25	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 11:57	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 19:59	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 13:58	MMM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-25 (20171214)

Lab Sample ID: 240-89451-3

Date Collected: 12/14/17 13:30

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	309234	12/27/17 12:55	LEE	TAL CAN
Total/NA	Prep	3510C			308397	12/20/17 07:00	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 17:20	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		10	308249	12/19/17 09:21	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 12:40	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		10	308540	12/20/17 16:46	RES	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:30	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:01	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:00	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 14:03	MMM	TAL CAN

Client Sample ID: AMW-20 (20171214)

Lab Sample ID: 240-89451-4

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 13:17	LEE	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 20:32	JMG	TAL CAN
Total/NA	Prep	3510C	RE		309109	12/26/17 12:46	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309390	12/28/17 16:28	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 18:16	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 12:59	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 20:58	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:34	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:06	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:02	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 14:05	MMM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: DUP-02 (20171214)

Lab Sample ID: 240-89451-5

Date Collected: 12/14/17 09:57

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 13:40	LEE	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 20:56	JMG	TAL CAN
Total/NA	Prep	3510C	RE		309109	12/26/17 12:46	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309390	12/28/17 16:52	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 18:55	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 13:17	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 21:25	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:39	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:10	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:04	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 14:07	MMM	TAL CAN

Client Sample ID: AMW-24 (20171214)

Lab Sample ID: 240-89451-6

Date Collected: 12/14/17 12:37

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 14:03	LEE	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 12:24	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 19:35	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 13:35	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 21:52	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:44	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:15	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:06	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 14:08	MMM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: AMW-23B (20171214)

Lab Sample ID: 240-89451-7

Date Collected: 12/14/17 12:23

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 14:26	LEE	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	308835	12/22/17 18:32	JMG	TAL CAN
Total/NA	Prep	3510C	RE		309109	12/26/17 12:46	DVT	TAL CAN
Total/NA	Analysis	8270C	RE	1	309390	12/28/17 15:17	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 20:15	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 13:54	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 22:19	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 16:22	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 11:21	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 19:46	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 13:45	MMM	TAL CAN

Client Sample ID: AMW-23 (20171214)

Lab Sample ID: 240-89451-8

Date Collected: 12/14/17 10:10

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 14:48	LEE	TAL CAN
Total/NA	Prep	3510C			308680	12/21/17 10:30	DVT	TAL CAN
Total/NA	Analysis	8270C		1	309051	12/26/17 12:48	JMG	TAL CAN
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 22:57	RTR	TAL CAN
Total/NA	Prep	3520C			308637	12/21/17 07:29	WKD	TAL CAN
Total/NA	Analysis	8082		1	308801	12/22/17 14:49	LSH	TAL CAN
Total/NA	Prep	3510C			308133	12/18/17 10:23	SDE	TAL CAN
Total/NA	Analysis	WI-DRO		1	308394	12/19/17 23:40	DEB	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6010B		1	308336	12/19/17 17:48	AS1	TAL CAN
Dissolved	Prep	3005A			308170	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020A		1	308636	12/20/17 12:19	AS1	TAL CAN
Dissolved	Prep	7470A			308181	12/18/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	308470	12/19/17 20:08	DSH	TAL CAN
Total/NA	Prep	9012A			308329	12/19/17 11:16	MMM	TAL CAN
Total/NA	Analysis	9012A		1	308386	12/19/17 14:10	MMM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-19

Lab Sample ID: 240-89451-9

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309056	12/26/17 18:50	LEE	TAL CAN

Client Sample ID: TRIP BLANK DUP-01

Lab Sample ID: 240-89451-10

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309056	12/26/17 19:12	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-25

Lab Sample ID: 240-89451-11

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309234	12/27/17 15:11	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-20

Lab Sample ID: 240-89451-12

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 15:58	LEE	TAL CAN

Client Sample ID: TRIP BLANK DUP-02

Lab Sample ID: 240-89451-13

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 16:21	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-24

Lab Sample ID: 240-89451-14

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 16:44	LEE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Client Sample ID: TRIP BLANK AMW-23B

Lab Sample ID: 240-89451-15

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 17:06	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-23B MS

Lab Sample ID: 240-89451-16

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 17:29	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-23B MSD

Lab Sample ID: 240-89451-17

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 18:31	LEE	TAL CAN

Client Sample ID: TRIP BLANK AMW-23

Lab Sample ID: 240-89451-18

Date Collected: 12/14/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	309421	12/28/17 19:35	LEE	TAL CAN

Client Sample ID: TRIP BLANK WI GRO

Lab Sample ID: 240-89451-19

Date Collected: 12/13/17 00:00

Matrix: Water

Date Received: 12/15/17 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WI-GRO		1	308106	12/18/17 23:37	RTR	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford TCAP - E200572

TestAmerica Job ID: 240-89451-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

TestAmerica Canton

4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0773

1.6/0.3 2.4/C2.1 1.4/C1.1 1.2/C0.9
0.8/C0.5

Chain of Custody Record

2.0/C1.7 1.0/C0.7 2.2/C1.9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: KRISTOFFER HINSKEY Address: 28550 Cabot Drive Suite 500 City: Novi State: MI 48377 Phone: 269-579-5402 Email: kristoffer.hinskey@arcadis-us.com Project Name: Ford TCAP - E200572 Site: Ford TCAP St. Paul, MN		Lab Info Lab #1: Adam Thompson Lab #2: 218-260-7854 Lab #3: PO # MN000631.0001.00002 Lab #4: WO # MN000631.0001.00002 Lab #5: Project # 24006638 Lab #6: SSOW#		Carrier Tracking No(s) 240-47651-20775.3 Page 3 of 4 Job #	
Due Date Requested: TAT Requested (days): Standard 10-day		Analysis Requested			
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample ID: AMW-19(20171213) Dup-01(20171213) AMW-25(20171214) AMW-20(20171214) Dup-02(20171214) AMW-24(20171214) AMW-23B(20171214) AMW-23(20171214)	Sample Date: 12/13/17 12/13/17 12/14/17 12/14/17 12/14/17 12/14/17 12/14/17 12/14/17	Sample Time: 1650 - 1330 0957 - 1237 1223 1010	Sample Type (C=Comp, G=grab): G G G G G G G G	Matrix (Water, S-solid, O-waste/oil, ST-Tissue, A-Air): Water Water Water Water Water Water Water Water	Preservation Code: A N B A D X
Trip Blank Temp Blank					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by:		Date: 12/14/17		Company: Arcadis	
Relinquished by:		Date: 12-14-17		Company: T. Hines	
Relinquished by:		Date:		Company:	
Custody Seal Intact: Yes ☐ No ☐		Custody Seal No.:		Cooler Temperature(s): C and Other Remarks:	

TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>89451</u>
Canton Facility		
Client <u>Arcadis</u>	Site Name _____	Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>12-15-17</u>	Opened on <u>12-15-17</u>	
FedEx: 1 st Grd <u>EXP</u>	UPS FAS Clipper	Client Drop Off TestAmerica Courier Other
Receipt After-hours: Drop-off Date/Time		Storage Location
TestAmerica Cooler # _____	Foam Box _____	Client Cooler Box <u>Other</u>
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____		
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt ☒ See Multiple Cooler Form		
IR GUN# IR-8 (CF <u>-0.3</u> °C) Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C
IR GUN #36 (CF <u>+0.3</u> °C) Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C
IR GUN # 627 (CF <u>-1.3</u> °C) Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>10</u>	Yes No	
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes <u>No</u>	
-Were tamper/custody seals intact and uncompromised?	Yes No NA	
3. Shippers' packing slip attached to the cooler(s)?	Yes No	
4. Did custody papers accompany the sample(s)?	Yes No	
5. Were the custody papers relinquished & signed in the appropriate place?	Yes No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No	
7. Did all bottles arrive in good condition (Unbroken)?	Yes No	
8. Could all bottle labels be reconciled with the COC?	Yes No	
9. Were correct bottle(s) used for the test(s) indicated?	Yes No	
10. Sufficient quantity received to perform indicated analyses?	Yes No	
11. Are these work share samples?	Yes <u>No</u>	
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# <u>HC730269</u>
13. Were VOAs on the COC?	Yes No	
14. Were air bubbles >6 mm in any VOA vials? Larger than this.	Yes <u>No</u> NA	
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes No	
16. Was a LL Hg or Me Hg trip blank present? _____	Yes <u>No</u>	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other		
Concerning _____		

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: _____
<u>25 TB vials rec'd - 2 TB^{vials} logged for each cooler (sample specific) for 8260</u> <u>5 TB vials logged for W1 G20</u>		
17. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
18. SAMPLE PRESERVATION		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
AMW-19 (20171213)	240-89451-G-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-19 (20171213)	240-89451-H-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-19 (20171213)	240-89451-M-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-19 (20171213)	240-89451-N-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-01 (20171213)	240-89451-G-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
DUP-01 (20171213)	240-89451-H-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
DUP-01 (20171213)	240-89451-M-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-01 (20171213)	240-89451-N-2	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-25 (20171214)	240-89451-G-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-25 (20171214)	240-89451-H-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-25 (20171214)	240-89451-M-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-25 (20171214)	240-89451-N-3	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-20 (20171214)	240-89451-G-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-20 (20171214)	240-89451-H-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-20 (20171214)	240-89451-M-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-20 (20171214)	240-89451-N-4	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-02 (20171214)	240-89451-G-5	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
DUP-02 (20171214)	240-89451-H-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
DUP-02 (20171214)	240-89451-M-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
DUP-02 (20171214)	240-89451-N-5	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-24 (20171214)	240-89451-G-6	Amber Plastic 250mL - NaOH	>12	_____	_____
AMW-24 (20171214)	240-89451-H-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-24 (20171214)	240-89451-L-6	Amber Glass 1 liter - Nitric Acid	<2	_____	_____
AMW-24 (20171214)	240-89451-M-6	Amber Glass 1 liter - Nitric Acid	<2	_____	_____
AMW-23B (20171214)	240-89451-AK-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-AL-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-AM-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-AN-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-AO-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-AP-7	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23B (20171214)	240-89451-S-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-23B (20171214)	240-89451-T-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-23B (20171214)	240-89451-U-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
AMW-23B (20171214)	240-89451-V-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-23B (20171214)	240-89451-W-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-23B (20171214)	240-89451-X-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-23 (20171214)	240-89451-G-8	Plastic 250ml - with Sodium Hydrox	>12	_____	_____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
AMW-23 (20171214)	240-89451-H-8	Plastic 500ml - with Nitric Acid	<2	_____	_____
AMW-23 (20171214)	240-89451-M-8	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
AMW-23 (20171214)	240-89451-N-8	Amber Glass 1 liter - Hydrochloric	<2	_____	_____

Data Quality Assessment / Data Usability Evaluation

FORD-Twin Cities Assembly Plant – St. Paul, Minnesota

Laboratory analytical data produced as part of the Ford-TCAP December 2017 groundwater investigation was reviewed by CADENA Inc. Data verification reports generated by CADENA were completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers. Where applicable, the review/verification of the level II analytical reports included checking the following:

- Holding times
- Blank contamination
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- MS/MSD Relative percent differences (RPDs)
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- LCS/LCSD Relative percent differences (RPDs)
- Surrogate recoveries

All of the groundwater samples collected at the site were analyzed by TestAmerica - North Canton. Samples were analyzed for GCMS VOC, GCMS SVOC, PCB, GC VOC, GC Other, Metals and General Chemistry parameter(s).

Arcadis has prepared this data quality assessment / data usability evaluation (DQA/DUE) to describe the laboratory data validation and review process, to denote any data qualifiers as related to potential bias or rejection, and to render judgment regarding the usability of any qualified data for the intended purposes.

The following CADENA verification reports/Test America analytical reports submitted with this report were reviewed: 240-89410-1, 240-89451-1, 240-89524-1, 240-89649-1, 240-89734-1 and 240-89849-1.

The following summaries discuss the outlying QC values identified in the CADENA verification reports and Arcadis' assessment regarding the usability of such data. This DQA of the data and verification effort was performed to identify any QC deviations which may result in the qualification of data as estimated (with potential bias if applicable) or rejected "R" (not usable) data. Only QC deviations that would require the estimation or rejection of specific data are documented below. Additionally, any sample analyses that required the reporting of elevated reporting limit (RLs)/method detection limits (MDLs) due to dilution are documented below.

240-89410-1

Volatiles

The laboratory control sample exhibited a recovery above control limits for the compound cis-1,2-Dichloroethene. The detected cis-1,2-Dichloroethene result for associated sample location AMW-22B(20171213) (Lab Sample ID: 240-89410-2) should be considered estimated (potential high bias).

The matrix spike/matrix spike duplicate performed on sample location AMW-22(20171213) (Lab Sample ID: 240-89410-1) exhibited a MS and/or MSD recovery below control limits for the compounds Allyl chloride, cis-1,3-Dichloropropene and Methylcyclohexane. The non-detect results for the compounds Allyl chloride, cis-1,3-Dichloropropene and Methylcyclohexane for sample location AMW-22(20171213) (Lab Sample ID: 240-89410-1) should be considered estimated (potential low bias).

SVOCs

The laboratory control sample exhibited a recovery below control limits (<10%) for the compounds Caprolactam and 4-Chloroaniline. The non-detect results for the compounds Caprolactam and 4-Chloroaniline for sample locations AMW-03(20171212) (Lab Sample ID: 240-89410-3), AMW-03B(20171212) (Lab Sample ID: 240-89410-4) and AMW-10(20171212) (Lab Sample ID: 240-89410-5) should be rejected and are considered not usable.

The laboratory control sample exhibited a recovery below control limits for the compound Di-n-octyl phthalate. The non-detect results for the compound Di-n-octyl phthalate for sample locations AMW-03(20171212) (Lab Sample ID: 240-89410-3), AMW-03B(20171212) (Lab Sample ID: 240-89410-4) and AMW-10(20171212) (Lab Sample ID: 240-89410-5) should be considered estimated (potential low bias).

Wisconsin GRO/DRO

WI-DRO was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-22(20171213) (Lab Sample ID: 240-89410-1), AMW-22B(20171213) (Lab Sample ID: 240-89410-2), AMW-03(20171212) (Lab Sample ID: 240-89410-3) and AMW-03B(20171212) (Lab Sample ID: 240-89410-4).

Total Cyanide

Total Cyanide was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: All samples within this Sample Delivery Group (SDG).

240-89451-1

Volatiles

Sample location AMW-25 (20171214) (240-89451-3)[10X] required dilution prior to analysis. The dilution resulted in elevated reporting limits/method detection limits.

SVOCs

The surrogate compound 2,4,6-Tribromophenol associated with the acid fraction analytes in associated sample locations AMW-20 (20171214) (Lab Sample ID: 240-89451-4), DUP-02 (20171214) (Lab Sample ID: 240-89451-5) and AMW-23B (20171214) (Lab Sample ID: 240-89451-7) exhibited a recovery below control limits (<10%) in the original analysis. The acid fraction analytes for these samples were re-extracted over the recommended holding time of 7 days and reanalyzed. The reanalysis of the acid fraction analytes for sample locations AMW-20 (20171214) (Lab Sample ID: 240-89451-4), DUP-02 (20171214) (Lab Sample ID: 240-89451-5) and AMW-23B (20171214) (Lab Sample ID: 240-89451-7) were used for reporting purposes and should be considered estimated (potential low bias).

The matrix spike/matrix spike duplicate performed on sample location AMW-23B (20171214) (Lab Sample ID: 240-89451-7) exhibited a MS/MSD recovery below control limits (<10%) for the compound Caprolactam. The not detected result for the compound Caprolactam for sample location AMW-23B (20171214) (Lab Sample ID: 240-89451-7) should be rejected and is considered not usable.

The compound Diethyl phthalate was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: DUP-01 (20171213) (Lab Sample ID: 240-89451-2) and AMW-23B (20171214) (Lab Sample ID: 240-89451-7).

Wisconsin GRO/DRO

The matrix spike/matrix spike duplicate performed on sample location AMW-23B (20171214) (Lab Sample ID: 240-89451-7) exhibited a MS/MSD recovery below control limits for WI-DRO. The WI-DRO result for sample location AMW-23B (20171214) (Lab Sample ID: 240-89451-7) should be considered estimated (potential low bias).

WI-DRO was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-19 (20171213) (Lab Sample ID: 240-89451-1), DUP-01 (20171213) (Lab Sample ID: 240-89451-2), AMW-20 (20171214) (Lab Sample ID: 240-89451-4), AMW-24 (20171214) (Lab Sample ID: 240-89451-6), AMW-23B (20171214) (Lab Sample ID: 240-89451-7) and AMW-23 (20171214) (Lab Sample ID: 240-89451-7). The following associated sample results should be considered to be non-detect at the reported concentration and qualified

with B flags due to potential laboratory contamination: DUP-02 (20171214) (Lab Sample ID: 240-89451-5).

Sample location AMW-25 (20171214) (240-89451-3)[10X] required dilution prior to analysis. The dilution resulted in elevated reporting limits/method detection limits.

Total Cyanide

Sample location AMW-25 (20171214) (240-89451-3) was diluted due to the nature of the sample matrix. The dilution resulted in elevated reporting limits/method detection limits.

240-89524-1

Wisconsin GRO/DRO

WI-DRO was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-21(20171215) (Lab Sample ID: 240-89524-2), AMW-07(20171215) (Lab Sample ID: 240-89524-3) and AMW-05B(20171215) (Lab Sample ID: 240-89524-4). The following associated sample results should be considered to be non-detect at the reported concentration and qualified with B flags due to potential laboratory contamination: AMW-26(20171215) (Lab Sample ID: 240-89524-1).

240-89649-1

Volatiles

The matrix spike/matrix spike duplicate performed on sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) exhibited a MS/MSD recovery below control limits for the compounds Bromoform and trans-1,3-Dichloropropene. The non-detect results for the compounds Bromoform and trans-1,3-Dichloropropene for sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) should be considered estimated (potential low bias).

Sample location AMW-06(20171219) (240-89649-6)[33.33X] required dilution prior to analysis. The dilution resulted in elevated reporting limits/method detection limits.

SVOCs

The matrix spike performed on sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) exhibited a MS recovery below control limits (<10%) for the compound Caprolactam. The not detected result for the compound Caprolactam for sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) should be rejected and is considered not usable.

Wisconsin GRO/DRO

WI-DRO was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-04(20171218) (Lab Sample ID: 240-89649-1), AMW-27(20171218) (Lab Sample ID: 240-89649-2), AMW-29(20171218) (Lab Sample ID: 240-89649-4) and DUP-03(20171218) (Lab Sample ID: 240-89649-5).

The matrix spike/matrix spike duplicate performed on sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) exhibited a MS/MSD recovery below control limits for WI-DRO. The results for WI-DRO for sample location AMW-28(20171218) (Lab Sample ID: 240-89649-3) should be considered estimated (potential low bias).

240-89734-1

SVOCs

The compound Diethyl phthalate was found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-30 (20171220) (Lab Sample ID: 240-89734-1), AMW-31 (20171220) (Lab Sample ID: 240-89734-2) and AMW-02 (20171219) (Lab Sample ID: 240-89734-3).

Wisconsin GRO/DRO

Sample AMW-31 (20171220) (240-89734-2)[5X] required dilution prior to analysis (WI-DRO). The dilution resulted in elevated reporting limits/method detection limits.

PCBs

Sample AMW-31 (20171220) (240-89734-2)[10X] required dilution prior to analysis. The dilution resulted in elevated reporting limits/method detection limits.

240-89849-1

Dissolved Metals

The analytes Aluminum and Vanadium were found in the associated blank. The following associated sample results should be considered to be non-detect at the RL and qualified with UB flags due to potential laboratory contamination: AMW-01(20171220) (Lab Sample ID: 240-89849-1) Aluminum only and AMW-08(20171221) (Lab Sample ID: 240-89849-2) Vanadium only.

The review of the CADENA verification reports/Test America analytical reports submitted with this report identified a few minor quality assurance/quality control (QA/QC) non-compliance issues that would result in the estimation of that data, but would still be considered usable. Therefore, the analytical data, with the exception of the rejected non-detect Caprolactam results for sample locations AMW-03(20171212) (Lab Sample ID: 240-89410-3), AMW-03B(20171212) (Lab Sample ID: 240-89410-4) and AMW-10(20171212) (Lab Sample ID: 240-89410-5), AMW-23B (20171214) (Lab Sample ID: 240-89451-7), AMW-28(20171218) (Lab Sample ID: 240-89649-3) and non-detect 4-Chloroaniline results for sample locations AMW-03(20171212) (Lab Sample ID: 240-89410-3), AMW-03B(20171212) (Lab Sample ID: 240-89410-4) and AMW-10(20171212) (Lab Sample ID: 240-89410-5), AMW-23B (20171214) are considered reliable and acceptable for use with the qualifications noted for the Ford-TCAP December 2017 groundwater investigation sampling event.