



Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

SEMI-ANNUAL GROUNDWATER MONITORING DATA REPORT

TO: Tyler Jacobs, USEPA

CC: Shaun Shields, EGLE RRD
Brendan Mullen, RACER
Dave Favero, RACER

FROM: Rodney Abke & Mike Smith, Applied EcoSystems, Inc.

DATE: May 27, 2025

SUBJECT: RACER Flint West Industrial Land (#12990)
Semi-Annual Monitoring



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1.0 INTRODUCTION

Since the previous Data Report (dated January 15, 2025), Applied EcoSystems, Inc. (Æ) conducted a routine groundwater monitoring event (gauging and sampling) on the RACER Flint West Industrial Land (Site) and the north-adjointing Genesee County Parks (GCP) property on March 18, 2025. This report provides a summary and the results of that groundwater monitoring event.

A Site Location Map is included in Figure 1; and for reference, Site investigation locations are included in Figure 2. The Site consists of approximately three acres of land located west of Stevens Street and north of Glenwood Avenue in Flint, Genesee County, Michigan. Almost the entire Site consists of concrete pavement remaining after the demolition of a former manufacturing building. The Site is secured with a locked chain-link fence.

The Site is developed with a Consumers Energy electrical substation with an equipment shelter in the central part of the Site and with a utility conduit shed on the southeast corner of the Site. Per John Ebenhoeh with Consumers Energy, the small building on the southeast corner is a shelter for electrical conduits that run under the road to the GM tool and die facility. This small building is accessed approximately once per year for approximately two hours. The building in the fenced area is a support equipment shelter for the substation. The fenced area is accessed approximately once per month for approximately two hours, and the building itself is accessed less frequently and for shorter durations.

2.0 MONITORING ACTIVITIES COMPLETED

Groundwater Monitoring¹

- All monitoring wells were gauged for depth to water on March 18, 2025. A Groundwater Contour Map prepared using the March 18, 2025, groundwater elevation data is included as Figure 3 in Appendix A. For reference, previously submitted cross-section diagrams showing soil types and groundwater elevations are included in Appendix B as Attachment 1.
- A routine groundwater monitoring event was conducted on March 18, 2025.
- Groundwater samples were collected from monitoring wells MW-103S, MW-108S, MW-110S, MW-112S, and MW-114S¹ to be analyzed for Volatile Organic Compounds (VOCs), dissolved and total metals (arsenic, chromium [total], chromium VI, copper, lead, selenium, and zinc), and per- and polyfluoroalkyl substances (PFAS).

Analytical results are summarized in Appendix B as Attachment 2. Laboratory analytical reports for all monitoring activities are included in Appendix B as Attachment 3.

¹ A reduction in the number of wells sampled during the semi-annual sampling events was requested in an email dated August 13, 2024. Additionally, based on discussion with the USEPA and the correspondence, five side-gradient wells (MW-100S, MW-104S, MW-106SR, MW-107S, and MW-117S) will be sampled once every two years beginning in the Spring of 2026. USEPA approved the requested revised sampling plan via an August 13, 2024 email.

3.0 MONITORING RESULTS

Comparison of the March 18, 2025, groundwater data to current EGLE Generic Residential Cleanup Criteria (GRCC) and Generic Non-Residential Cleanup Criteria (GNRCC) dated October 12, 2023 and to USEPA Maximum Contaminant Levels (MCLs) for five PFAS compounds including PFOA and PFOS indicates the following:

Metals: Dissolved Arsenic was detected exceeding drinking water (DW) and groundwater to surface water interface (GSI) criteria as shown in the following table. The concentrations are consistent with expected regional conditions, do not appear to represent a plume, and are considered generally to be naturally occurring. Although EGLE has published state-wide and regional “background” concentrations for soils, no such values have been published for groundwater; however, the concentrations generally are consistent with concentrations encountered by Æ at other uncontaminated sites in the Flint area. The dissolved metals concentrations are considered to be more representative of Site conditions than total metal concentrations for the purposes of this assessment.

Table 1.0 – Dissolved Metals Exceedances in Groundwater

Well ID	Metal	Drinking Water Criterion	GSI Criterion	Result
MW-103S	Arsenic, total	10	10	18
MW-112S	Dissolved Arsenic	10	10	15
MW-112S	Arsenic, total	10	10	39
MW-114S	Dissolved Arsenic	10	10	17
MW-114S	Arsenic, total	10	10	244
MW-114S	Chromium VI	100	11	20
MW-114S	Copper	1,000	20	76
MW-114S	Lead	4	44	54

- All results are expressed in µg/L.
- Groundwater Results in **red** indicate a criteria exceedance.

VOCs: Exceedances were present as follow:

Table 2.0 – VOCs Exceedances in Groundwater

Well ID	VOC	Drinking Water Criterion	GSI Criterion	Result
MW-114S	Trichloroethene	5	200	161

- All results are expressed in µg/L.
- Groundwater Results in **red** indicate a criteria exceedance.

PFAS: Detected concentrations of PFAS that have EGLE criteria or USEPA MCLs did not exceed criteria in any sample, except Perfluorooctane sulfonic acid (PFOS) concentrations exceeded drinking water criterion (4 ng/L) and/or GSI criteria (12 ng/L) in MW-103S, MW-112S, and MW-114S. These results are similar to the previous PFAS results for the groundwater samples collected in September 2024.



A table of all groundwater sample analytical results for all groundwater samples collected on behalf of RACER is included in Appendix B as Attachment 2. Sample analytical results for the March 2025 sampling events are included in Appendix B as Attachment 3. Figure 4 illustrates the GSI and drinking water exceedances for VOCs and metals in groundwater identified in groundwater samples collected from 2018 through 2025. For reference, Figure 5 includes data boxes and exceedances identified in soil samples. Figure 6 includes data boxes and exceedances for PFAS results. Low-flow sampling forms for the March 2025 sampling event are included in Appendix D. The Laboratory Data Validation Report is included in Appendix E.

Note that elevated tetrachloroethene levels have been consistently detected in one up-gradient well (MW-105S) since April 2012; and trichloroethene (TCE) also consistently has been detected in the same well, likely as a degradation product of the tetrachloroethene. This well is hydrogeologically downgradient from a former print shop located south of the Site.

The primary Site-specific constituents of concern are TCE and vinyl chloride, which appear to be exhibiting natural attenuation. PFOS concentrations have decreased or remained stable.

4.0 LABORATORY DATA VALIDATION SUMMARY

On March 18, 2025, Æ collected groundwater samples from five monitoring wells at the RACER Flint West Industrial Land Site using USEPA low-stress sampling protocols. One duplicate sample, one field blank, and one matrix spike and duplicate were collected. Samples were collected in appropriate laboratory-provided bottles with laboratory-provided preservatives and were maintained on ice until delivery under complete chain-of-custody protocols to Merit Laboratories within appropriate holding times. No sample condition issues were identified in the field or upon laboratory receipt. Samples were analyzed by specified standard methods for VOCs, EGLE 28 PFAS, six total and dissolved metals, and total and dissolved chromium VI. Filtration and preservation for dissolved metals including dissolved chromium VI were performed immediately upon laboratory receipt instead of during field collection.

Laboratory deliverables include two analytical laboratory reports, two quality control reports, and chains-of-custody for each -- one group of laboratory analytical and quality-control reports each for PFAS and for VOCs and metals. Each laboratory report contained a case narrative, laboratory accreditation/certification information, laboratory contact information, analytical methods, and analyte reporting relative to method detection limits (MDLs) and reporting limits (RLs). Data qualifiers were identified and evaluated in this Laboratory Data Validation report. No samples were extracted or analyzed beyond their holding times.

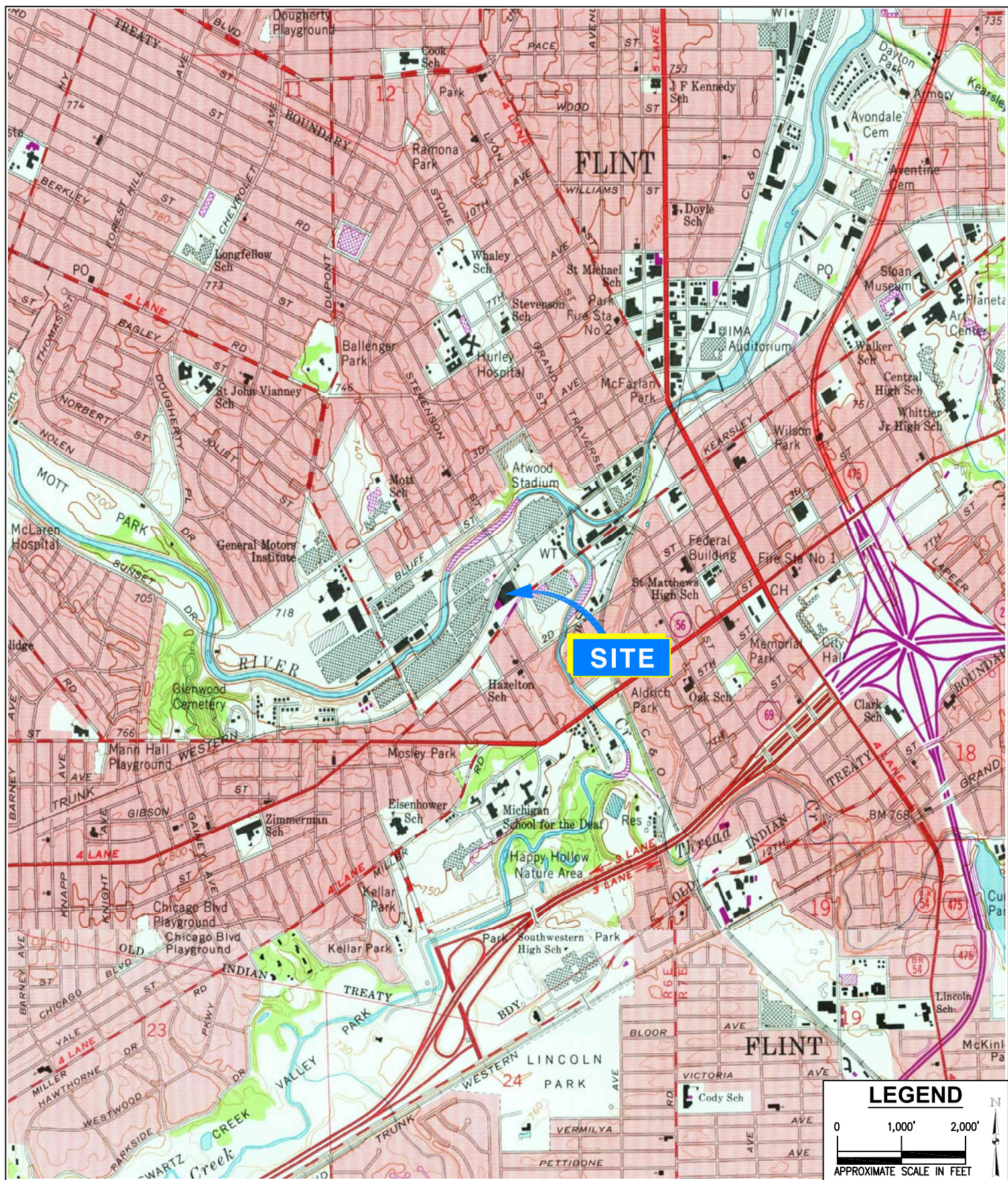
All surrogate recoveries were within their allowable ranges for each surrogate compound, indicating satisfactory laboratory performance overall. Analysis of laboratory blank samples identified no indications of significant cross-contamination. The equipment blank identified no detectable analytes greater than RLs. The field blank was determined to contain no detectable analytes. The trip blank was identified with no detectable analytes. Accordingly, no significant indications of cross-contamination were identified. Laboratory Control Spike (LCS) and LCS Duplicate analyses indicated the potential for PFAS Adona to be reported low; however, because that analyte was

detected at the Site only in spiked samples, this condition is not considered to have affected report conclusions. Matrix spikes and their duplicates indicated potential for Chromium VI to be identified low and for the PFAS analyte ADONA to be identified with low precision; however, neither of these analytes was identified in groundwater samples collected at the Site. No significant data qualifiers were identified in relation to the detected analyte concentrations.

Based on the assessment detailed in the foregoing QA/QC summary, the laboratory data summarized in Table 2 are considered acceptable with the specific qualifications noted herein.

5.0 SCHEDULE

The USEPA approved revised monitoring plan includes semi-annual sampling of MW-103S, MW-108S, MW-110S, MW-112S, and MW-114S. In addition, five side-gradient monitoring wells MW-100S, MW-104S, MW-106SR, MW-107S, and MW-117S will be sampled every other year beginning in the Spring of 2026. Samples will be analyzed for VOCs, dissolved and total metals (arsenic, chromium [total], chromium VI, copper, lead, selenium, and zinc), and PFAS. The next semi-annual monitoring event, which will not include the side-gradient wells, will be completed in the Fall 2025.



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Site Location Map

RACER Flint West #12990

**Glenwood Avenue & Stevenson Street
Flint, Michigan**

**SOURCE: USGS FLINT SOUTH QUADRANGLE
(PROVISIONAL EDITION 1975)**

DRAWING DATE:

CHECKED BY:

04/06/2020

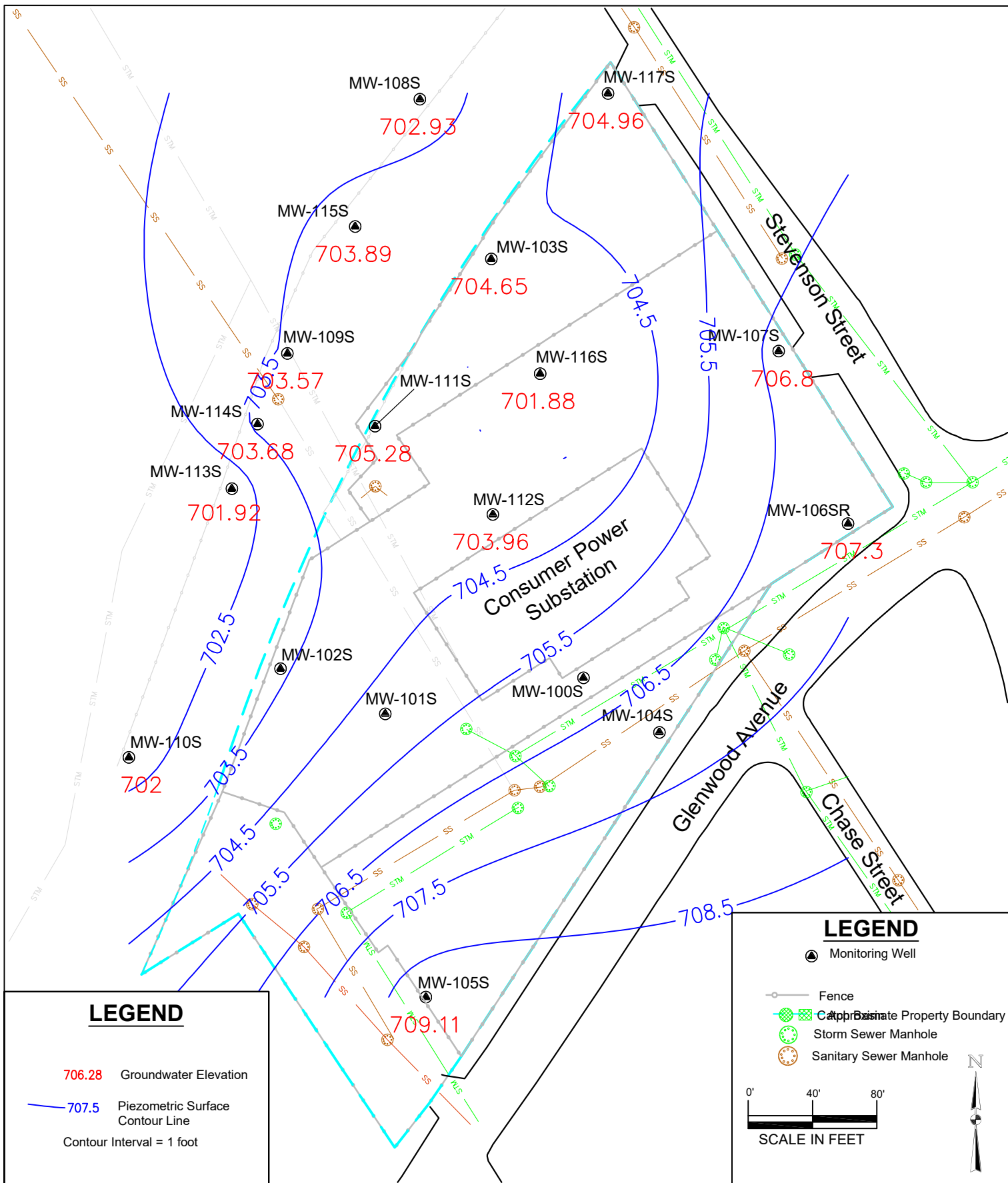
MDS

PROJECT:

FIGURE:

11-4317-102

1



Applied EcoSystems, Inc.

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Groundwater Contour Map (March 18, 2025)

Racer Flint West -12990
Flint West Industrial Land, Flint, Michigan

DATE:

04/18/2025

CHECKED BY:

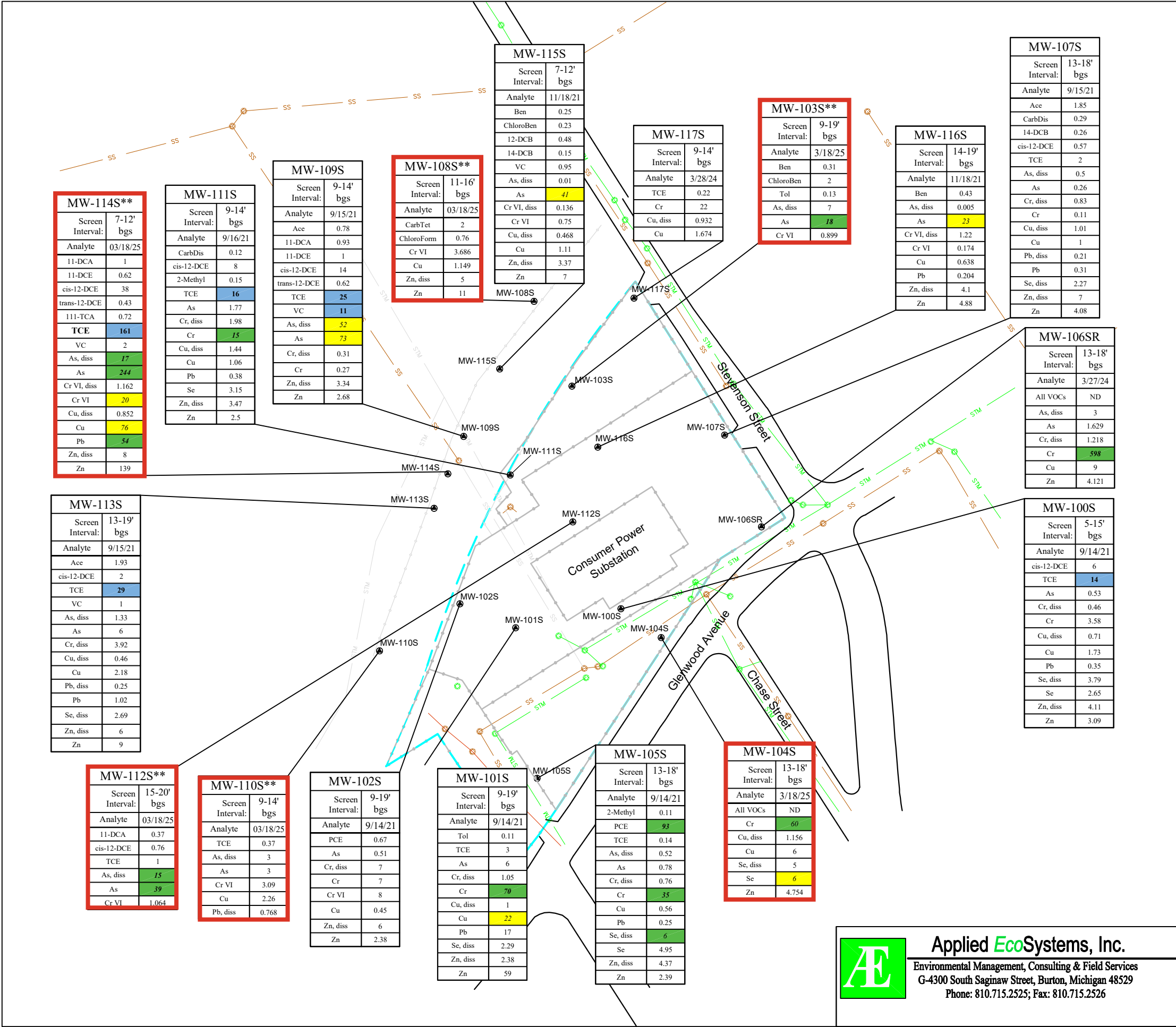
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PROJECT:

11-4317-102

FIGURE:

3



LEGEND

Monitoring Well

Results in ug/L

Acronym Legend

Acronym	Analyte Name
Ace	Acetone
MEK	2-Butanone (MEK)
Ben	Benzene
n-Butly	n-Butylbenzene
BromoChlEth	Bromodichloromethane
CarbDis	Carbon disulfide
CarbTet	Carbon tetrachloride
ChloroBen	Chlorobenzene
ChloroForm	Chloroform
ChloroMeth	Chloromethane
11-DCA	1,1-Dichloroethane
11-DCE	1,1-Dichloroethylene
12-DCB	1,2-Dichlorobenzene
13-DCB	1,3-Dichlorobenzene
14-DCB	1,4-Dichlorobenzene
cis-12-DCE	cis-1,2-Dichloroethylene
trans-12-DCE	trans-1,2-Dichloroethylene
Ethyl	Ethyl benzene
2-Hex	2-Hexanone
p-Isopro	p-Isopropyltoluene
2-Methyl	2-Methylnapthalene
MIBK	4-Methyl-2-pentanone (MIBK)
VOC	Volatile Organic Compounds
ND	Not Detected

Acronym Legend

Acronym	Analyte Name
Methyl Chlor	Methylene chloride
Naph	Naphthalene
111-TCA	1,1,1-Trichloroethane
123-TCB	1,2,3-Trichlorobenzene
123-TMB	1,2,3-Trimethylbenzene
124-TCB	1,2,4-Trichlorobenzene
124-TMB	1,2,4-Trimethylbenzene
135-TMB	1,3,5-Trimethylbenzene
PCE	Tetrachloroethylene (PCE)
TetraHyd	Tetrahydrofuran
Tol	Toluene
TCE	Trichloroethylene (TCE)
VC	Vinyl Chloride
Xyl, Total	Xylenes, Total
As, diss	Arsenic, Dissolved
As	Arsenic
Cr, diss	Chromium, Total, Dissolved
Cr	Chromium, Total
Cr VI, diss	Chromium, VI, Dissolved
Cr VI	Chromium, VI
Cu, diss	Copper, Dissolved
Cu	Copper
Pb, diss	Lead, Dissolved
Pb	Lead
Se, diss	Selenium, Dissolved
Se	Selenium
Zn, diss	Zinc, Dissolved
Zn	Zinc

Yellow = Compound exceeds GSI criteria

Blue = Compound exceeds DW criteria.

Green = Compound exceeds GSI and DW criteria.

Green box with cross = Catch Basin

Green circle with cross = Storm Sewer Manhole

Orange circle with cross = Sanitary Sewer Manhole

Blue line = Approximate Property Boundary

Orange line = Sanitary Sewer

Green line = Storm Sewer

Gray line = Sanitary Sewer (former or abandoned)

Gray line = Storm Sewer (former or abandoned)

Black line = Fence

Utilities in gray are former or abandoned utilities.

** - Well was sampled during the most recent sampling event (March 2025).

Wells that were not sampled during the current sampling event show the analytical results from the last time the wells was sampled.

060120

SCALE IN FEET

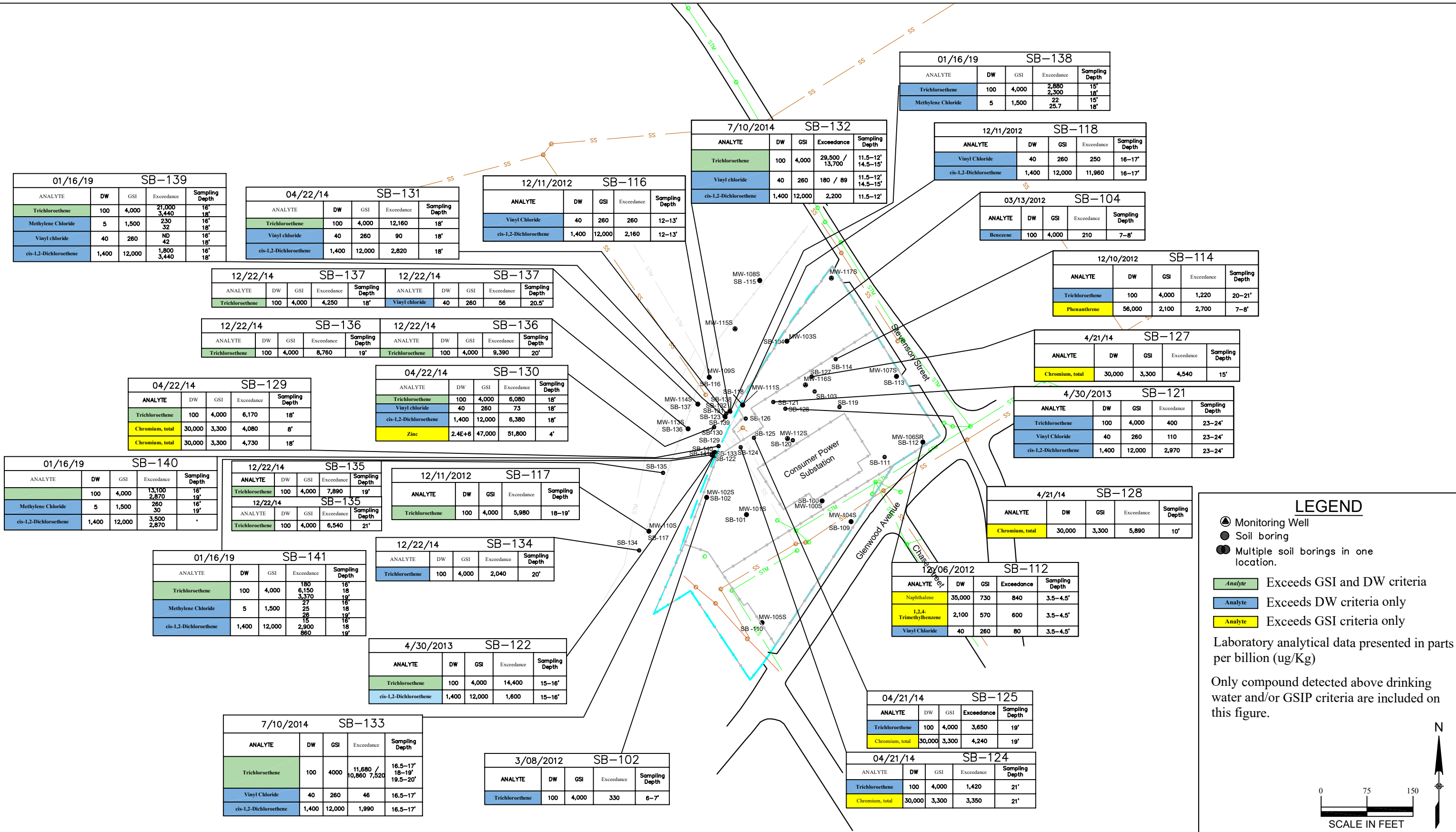
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Summary of Drinking Water and GSI Exceedances in Groundwater (VOCs) and Metals
Racer Flint West -12990
Flint West Industrial Land, Flint, Michigan

DRAWING DATE:	CHECKED BY:
04/25/2025	MDS
PROJECT:	FIGURE:
11-4317-102	4



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**Drinking Water Protection and GSIP
Exceedances in Soil (VOCs and Metals)**

**Racer Flint West -12990
Flint West Industrial Land, Flint, Michigan**

05/06/2025
PROJECT: 11-4317-102

MDS
FIGURE: 5

MW-109S				
Screen Interval:	9-14" bgs			
Analyte	2/27/20	8/19/20	3/3/21	9/15/21
PFBA	5.5	<10	<9.7	<9.8
PFPeA	<9.9	3.6	14	2.1
PFHxA	1.4	3.2	7.6	<2.0
PFBS	<9.9	2.7	2.2	1.6
PFHpA	<9.9	1.5	2	<2.0
PFOA	2.3	3.1	3.6	1.9
PFHxS	<9.9	2.5	1.9	1.9
PFNA	<9.9	<2.0	<1.9	<2.0
PFHpS	<9.9	<2.0	<1.9	<2.0
PFOS	31	29	21	23
PFUnDA	<9.9	<2.0	<1.9	<2.0
PFDoDA	<9.9	<2.0	<1.9	<2.0
PFtDA	<9.9	<2.0	<1.9	<2.0
PFTEdA	<9.9	<2.0	<1.9	<2.0

MW-115S	
Screen Interval:	7-12' bgs
Analyte	11/18/21
PFHxA	<4.1
PFBS	2.3
PFOA	2.3
PFOS	27

MW-111S				
Screen Interval:	9-14' bgs			
Analyte	2/27/20	8/19/20	3/3/21	9/16/21
PFBA	<20	<10	<10	<2.0
PFPeA	<10	2.4	4.1	2.9
PFHxA	<10	1.6	2.3	<2.0
PFBS	<10	1.5	1.7	<2.0
PFHpA	<10	<2.1	<2.1	<2.0
PFOA	<10	3	2.1	2
PFHxS	<10	1.9	<2.1	<2.0
PFNA	<10	<2.1	<2.1	<2.0
PFHpS	<10	<2.1	<2.1	<2.0
PFOS	32	33	25	11
PFUnDA	<10	<2.1	<2.1	<2.0
PFDoDA	<10	<2.1	<2.1	<2.0
PFTrDA	<10	<2.1	<2.1	<2.0
PFTeDA	<10	<2.1	<2.1	<2.0

MW-116S	
Screen Interval:	14-19' bgs
Analyte	11/18/21
PFHxA	<1.9
PFBS	<1.9
PFOA	2.0
PFHxS	<1.9
PFOS	22

MW-107S					
Screen Interval:	13-18" bgs				
Analyte	2/25/20	8/18/20	3/2/21	9/15/21	
PFBA	<19	<10	<10	19	
PFPeA	<9.6	<2.1	<4.2	<3.9	
PFHxA	<9.6	<2.1	<2.1	<1.9	
PFBS	1.9	<2.1	1.5	<1.9	
PFHpA	<9.6	<2.1	<2.1	<1.9	
PFOA	<9.6	<2.1	1.9	<1.9	
PFHxS	<9.6	<2.1	2.9	<1.9	
PFNA	<9.6	<2.1	<2.1	<1.9	
PFHpS	<9.6	<2.1	<2.1	<1.9	
PFOS	14	24	16	5.6	
PFUnDA	<9.6	<2.1	<2.1	<1.9	
PFDDoDA	<9.6	<2.1	<2.1	<1.9	
PFTtDA	<9.6	<2.1	<2.1	<1.9	
PFTeDA	<9.6	<2.1	<2.1	<1.9	

MW-101S				
Screen Interval:	9-19' bgs			
Analyte	2/25/20	8/18/20	3/3/21	9/14/21
PFBA	<20	<9.7	<10	5.5
PFPea	<10	1.9	<4.1	2.6
PFHxA	1.7	<1.9	<2.1	2.1
PFBS	2.3	1.9	1.9	<1.9
PFHpA	<10	<1.9	<2.1	<1.9
PFOA	<10	3.2	2.5	5.5
PFHxS	<10	1.9	<2.1	<1.9
PFHxS-LN	<10	1.6	NA	<1.9
PFNA	<10	<1.9	<2.1	<1.9
PFHpS	<10	<1.9	<2.1	<1.9
PFOS	21	30	25	37
PFUnDA	<10	<1.9	<2.1	<1.9
PFdODA	<10	<1.9	<2.1	<1.9
PFTriDA	<10	<10	<2.1	<1.9
PFTeDA	<10	<10	<4.1	<3.9

MW-105S	
Screen Interval:	13-18' bgs
Analyte	09/05/18
PFBA	3.2
PFPeA	<1.1
PFHxA	1.6
PFBs	1.8
PFHpA	<1.2
PFOA	4.5
PFHxS	12
PFNA	<0.94
PFHpS	2.5
PFOS	<1
PFUnDA	<0.31
PFDoDA	<0.46
PFTriDA	<0.75
PFTeDA	<1.2

MW-100S				
Screen Interval:	5-15' bgs			
Analyte	2/25/20	8/18/20	9/14/21	
PFBA	<20	<8.8	<9.8	
PFFeA	<8.8	<3.9	1.1	
PFHxA	<9.8	<2.0	<2.0	
PFBS	2.7	1.6	1.6	
PFHpA	<9.8	<2.0	<2.0	
PFOA	<9.8	<2.0	<2.0	
PFHxS	<9.8	<2.0	<2.0	
PFNA	<9.8	<2.0	<2.0	
PFHpS	<9.8	<2.0	<2.0	
PFOS	20	16	9.1	
PFUnD	<9.8	<2.0	<2.0	
PFDoDA	<9.8	<2.0	<2.0	
PFTDA	<9.8	<2.0	<2.0	
PFTeDA	<9.8	<2.0	<2.0	

MW-104S			
Screen Interval:	13-18' bgs		
Analyte	9/13/22	3/21/23	3/27/24
PFBA	<9.5	<9.8	3.3
PFPeA	<3.8	0.88	<3.9
PFHxA	<1.9	0.61	<2.0
PFBS	1.6	2.0	2.5
PFHpA	<1.9	<2.0	<2.0
PFOA	<1.9	<2.0	<2.0
PFHxS	1.7	2.2	<2.0
PFNA	<1.9	<2.0	<2.0
PFHpS	<1.9	<2.0	<2.0
PFOS	<1.9	<2.0	<2.0
PFUnDA	<1.9	<2.0	<2.0
PFDoDA	<1.9	<2.0	<2.0
PFTrDA	<1.9	<2.0	<2.0
PFtEDA	<1.9	<2.0	<3.9

MW-112S**											
Screen Interval:	15-20' bgs										
Analyte	2/27/20	8/18/20	3/2/21	9/16/21	3/16/22	9/13/22	3/21/23	9/14/23	3/27/24	9/17/24	3/18/25
PFBA	<19	<9.9	<21	<2.0	<31	<28	<9.6	<31	<27	<31	<10
PFFeA	<9.4	<2.0	<2.1	2.9	<4.1	<3.7	<3.8	<3.9	<4.1	<4.1	<4.1
PFHxA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.9	<2.9	<2.1
PFBS	<9.4	<2.0	1.7	<2.0	1.5	1.4	2.0	<1.9	<2.0	1.8	1.5
PFFHpA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFOA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	1.2
PFHxS	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	1.3	<1.9	<2.0	<2.1	<2.1
PFNA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	0.96	<1.9	<2.0	<2.1	<2.1
PFFHpS	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFOS	22	11	9	6.7	10	5.8	13	10	7.1	11	10
PFUnDA	9.4	2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFDDaDA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFTtDA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFTeDA	<9.4	<2.0	<2.1	<2.0	<2.1	<3.7	<3.8	<1.9	<4.1	<4.1	<4.1

MW-110S**											
Screen Interval:	9-14' bgs										
Analyte	2/27/20	8/19/20	3/3/21	9/15/21	3/16/22	9/13/22	3/21/23	9/14/23	3/27/24	9/17/24	3/18/25
PFBA	<19	<10	<10	<10	<9.8	<9.6	<10	21	<8.6	<11	<10
PFPeA	<9.5	1.1	<4.0	1.5	<3.9	<3.8	<4.1	1.1	<3.8	<4.3	<4.1
PFHxA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	0.63	<1.9	<1.9	1.8	<2.1
PFBS	<9.5	1.9	3	1.7	2.3	1.7	2.4	5.4	2	2.1	1.9
PFHpA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFOA	<9.5	2.8	<2.0	2.7	<2.0	2.5	<2.0	<1.9	0.78	2.7	<2.1
PFHxS	<9.5	2	<2.0	<2.1	<2.0	<1.9	<2.0	2.4	<1.9	2.5	<2.1
PFNA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFHpS	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFOS	<9.5	5.9	<2.0	5.8	<2.0	5.6	2.4	<1.9	<1.9	6	<2.1
PFTuDA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFTdDA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFTTrDA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<1.9	<1.9	<2.2	<2.1
PFTeDA	<9.5	<2.0	<2.0	<2.1	<2.0	<1.9	<2.0	<3.8	<3.8	<4.3	<4.1

MW-101S				
Screen Interval:	9-19' bgs			
Analyte	2/25/20	8/18/20	3/3/21	9/14/21
PFBA	<20	<9.7	<10	5.5
PFPea	<10	1.9	<4.1	2.6
PFHxA	1.7	<1.9	<2.1	2.1
PFBS	2.3	1.9	1.9	<1.9
PFHpA	<10	<1.9	<3/2	<1.9
PFOA	<10	3.2	2.5	5.5
PFHxS	<10	1.9	<2.1	<1.9
PFHxS-LN	<10	1.6	NA	<1.9
PFNA	<10	<1.9	<2.1	<1.9
PFHpS	<10	<1.9	<2.1	<1.9
PFOS	21	30	25	37
PFUnDA	<10	<1.9	<2.1	<1.9
PFdODA	<10	<1.9	<2.1	<1.9
PFTriDA	<10	<10	<2.1	<1.9
PFTeDA	<10	<10	<4.1	<3.9

MW-105S	
Screen Interval:	13-18' bgs
Analyte	09/05/18
PFBA	3.2
PFPeA	<1.1
PFHxA	1.6
PFBs	1.8
PFHpA	<1.2
PFOA	4.5
PFHxS	12
PFNA	<0.94
PFHpS	2.5
PFOS	<1
PFUnDA	<0.31
PFDoDA	<0.46
PFTriDA	<0.75
PFTeDA	<1.2

MW-100S				
Screen Interval:	5-15' bgs			
Analyte	2/25/20	8/18/20	9/14/21	
PFBA	<20	<8.8	<9.8	
PFFeA	<8.8	<3.9	1.1	
PFHxA	<9.8	<2.0	<2.0	
PFBS	2.7	1.6	1.6	
PFHpA	<9.8	<2.0	<2.0	
PFOA	<9.8	<2.0	<2.0	
PFHxS	<9.8	<2.0	<2.0	
PFNA	<9.8	<2.0	<2.0	
PFHpS	<9.8	<2.0	<2.0	
PFOS	20	16	9.1	
PFUnD	<9.8	<2.0	<2.0	
PFDoDA	<9.8	<2.0	<2.0	
PFTrDA	<9.8	<2.0	<2.0	
PFTeDA	<9.8	<2.0	<2.0	

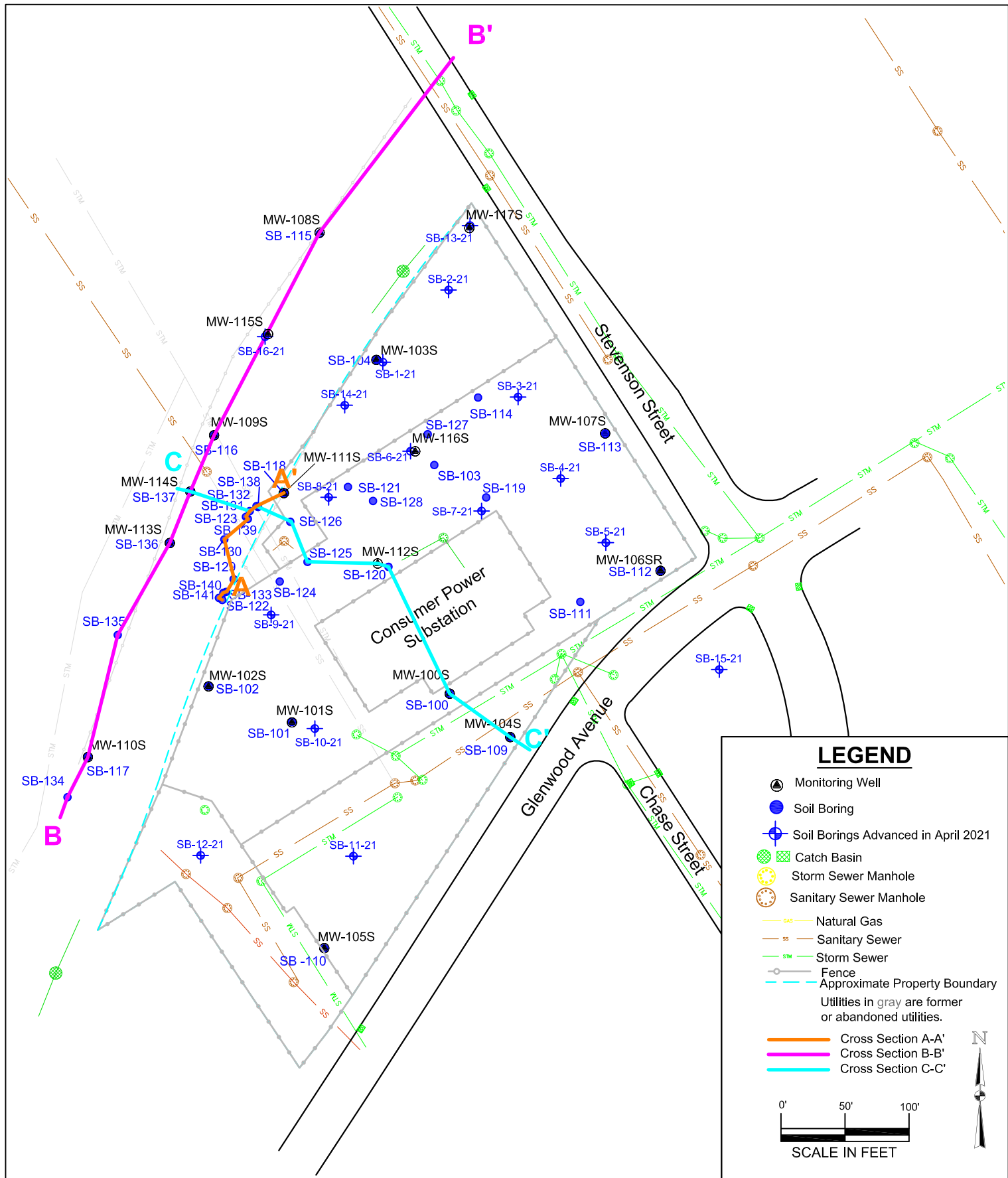
MW-104S			
Screen Interval:	13-18' bgs		
Analyte	9/13/22	3/21/23	3/27/24
PFBA	<9.5	<9.8	3.3
PFPeA	<3.8	0.88	<3.9
PFHxA	<1.9	0.61	<2.0
PFBS	1.6	2.0	2.5
PFHpA	<1.9	<2.0	<2.0
PFOA	<1.9	<2.0	<2.0
PFHxS	1.7	2.2	<2.0
PFNA	<1.9	<2.0	<2.0
PFHpS	<1.9	<2.0	<2.0
PFOS	<1.9	<2.0	<2.0
PFUnDA	<1.9	<2.0	<2.0
PFDoDA	<1.9	<2.0	<2.0
PFTrDA	<1.9	<2.0	<2.0
PFtEDA	<1.9	<2.0	<3.9

MW-112S**											
Screen Interval:	15-20' bgs										
Analyte	2/27/20	8/18/20	3/2/21	9/16/21	3/16/22	9/13/22	3/21/23	9/14/23	3/27/24	9/17/24	3/18/25
PFBA	<19	<9.9	<21	<2.0	<31	<28	<9.6	<31	<27	<31	<10
PFFeA	<9.4	<2.0	<2.1	2.9	<4.1	<3.7	<3.8	<3.9	<4.1	<4.1	<4.1
PFHxA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.9	<2.9	<2.1
PFBS	<9.4	<2.0	1.7	<2.0	1.5	1.4	2.0	<1.9	<2.0	1.8	1.5
PFFHpA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFOA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	1.2
PFHxS	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	1.3	<1.9	<2.0	<2.1	<2.1
PFNA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	0.96	<1.9	<2.0	<2.1	<2.1
PFFHpS	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFOS	22	11	9	6.7	10	5.8	13	10	7.1	11	10
PFUnDA	9.4	2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFDDaDA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFTfDA	<9.4	<2.0	<2.1	<2.0	<2.1	<1.8	<1.9	<1.9	<2.0	<2.1	<2.1
PFTeDA	<9.4	<2.0	<2.1	<2.0	<2.1	<3.7	<3.8	<1.9	<4.1	<4.1	<4.1

Perfluorobutane sulfonic acid	(PFBS)
Perfluorohexane sulfonic acid	(PFHxS)
Perfluorohexane Sulfonic acid-LN	(PFHxS-LN)
Perfluoroheptane sulfonic acid	(PFHpS)
Perfluorooctane sulfonic acid	(PFOS)
Perfluorobutanoic acid	(PFBA)
Perfluoropentanoic acid	(PFPeA)
Perfluorohexanoic acid	(PFHxA)
Perfluoroheptanoic acid	(PFHpA)
Perfluorooctanoic acid	(PFOA)
Perfluorononanoic acid	(PFNA)
Perfluorodecanoic acid	(PFDA)
Perfluoroundecanoic acid	(PFUnDA)
Perfluorododecanoic acid	(PFDoDA)
Perfluorotridecanoic acid	(PFTrDA)
Perfluorotetradecanoic acid	(PFTeDA)



DRAWING DATE: 04/24/2025	CHECKED BY: MDS
PROJECT: 11-4317-102	FIGURE: 6



Applied EcoSystems, Inc.

Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: 810.715.2525; Fax: 810.715.2526

Cross Section Locations Map

Racer Flint West -12990
Flint West Industrial Land, Flint, Michigan

DATE:

11/30/2022

CHECKED BY:

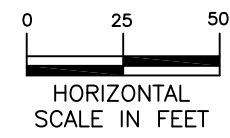
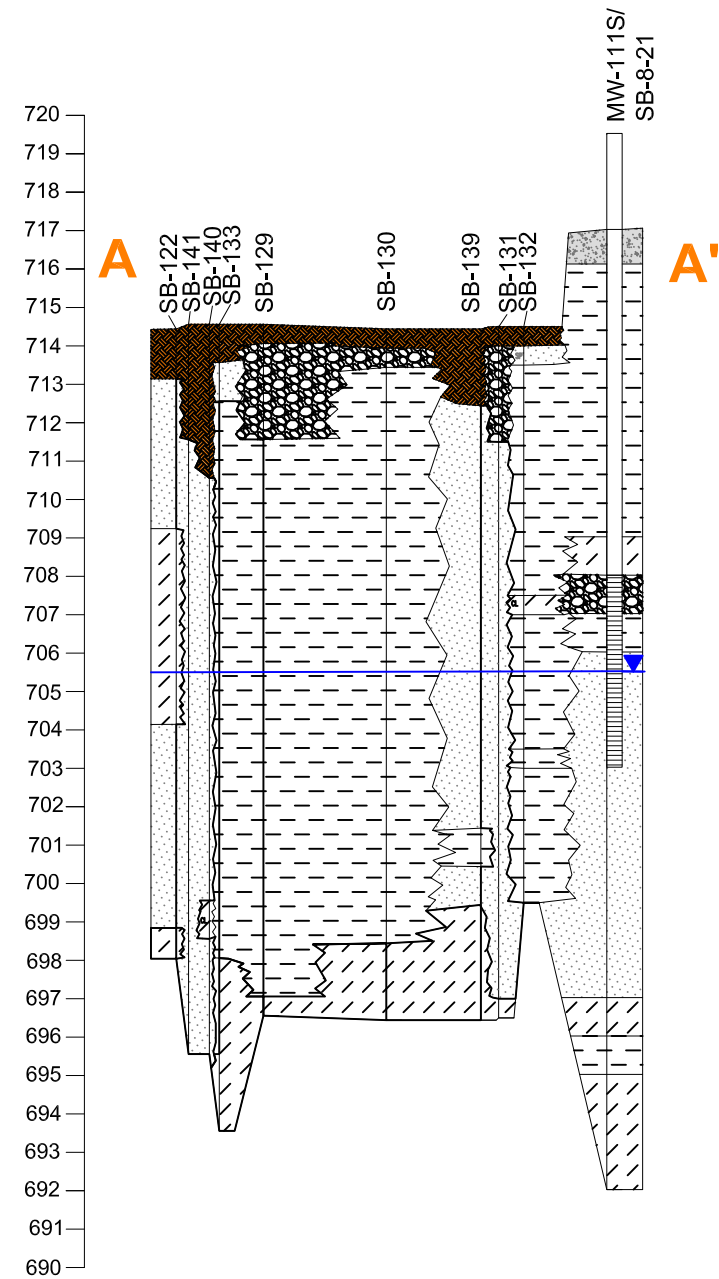
MDS

PROJECT:

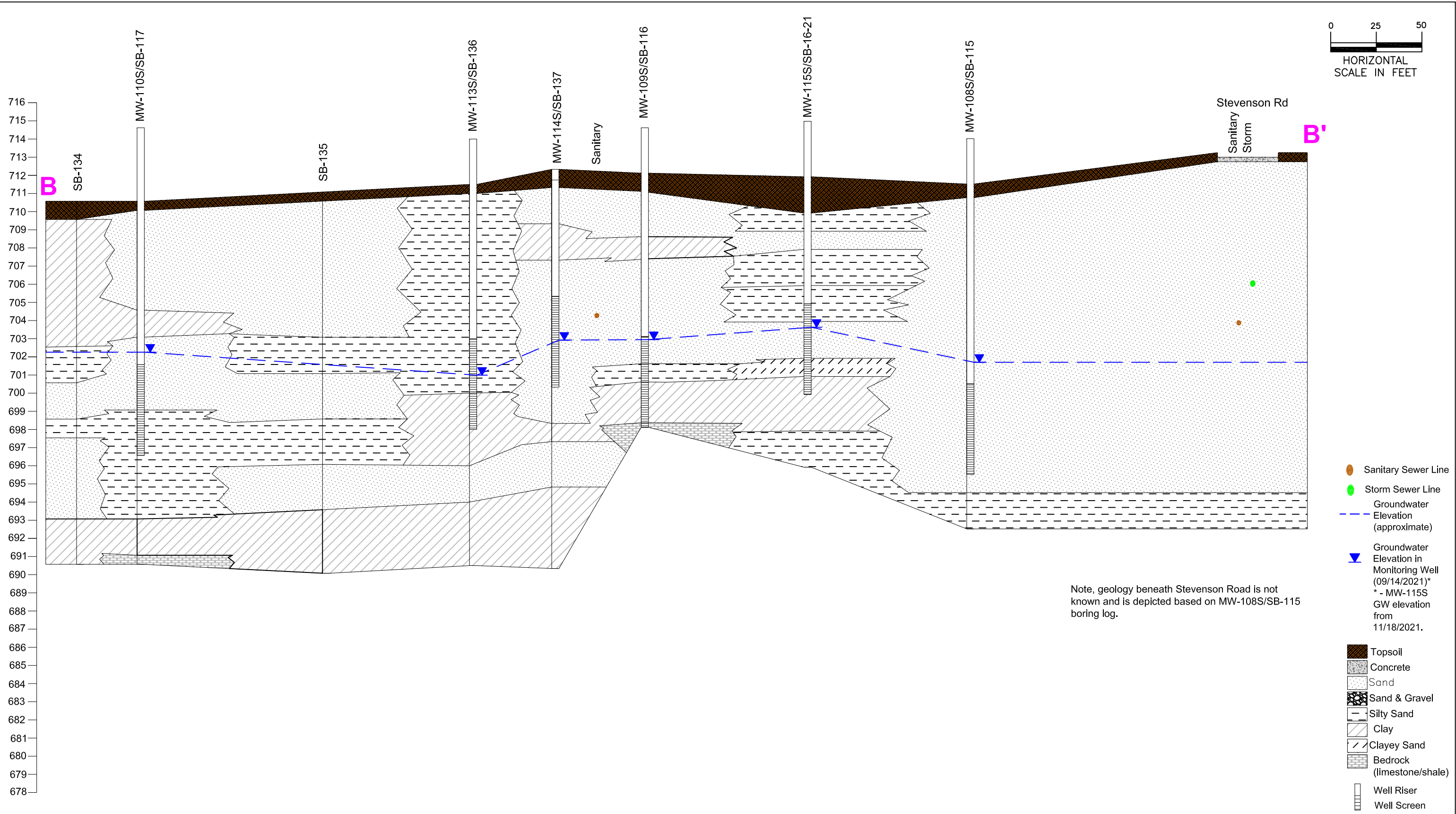
11-4317-102

FIGURE:

1A0



	Applied EcoSystems, Inc. Environmental Management, Consulting & Field Services G-4300 South Saginaw Street, Burton, Michigan 48529 Phone: 810.715.2525; Fax: 810.715.2526	Cross Section A-A'		DRAWING DATE:	CHECKED BY:
		Racer Flint West -12990 Flint West Industrial Land, Flint, Michigan		11/30/2022	MDS
				PROJECT:	FIGURE:
		11-4317-102	1A1		



Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: 810.715.2525; Fax: 810.715.2526

Cross Section B-B'

Racer Flint West -12990
Flint West Industrial Land, Flint, Michigan

DRAWING DATE: CHECKED BY:

11/30/2022 MDS

PROJECT: FIGURE:

11-4317-102 1A2

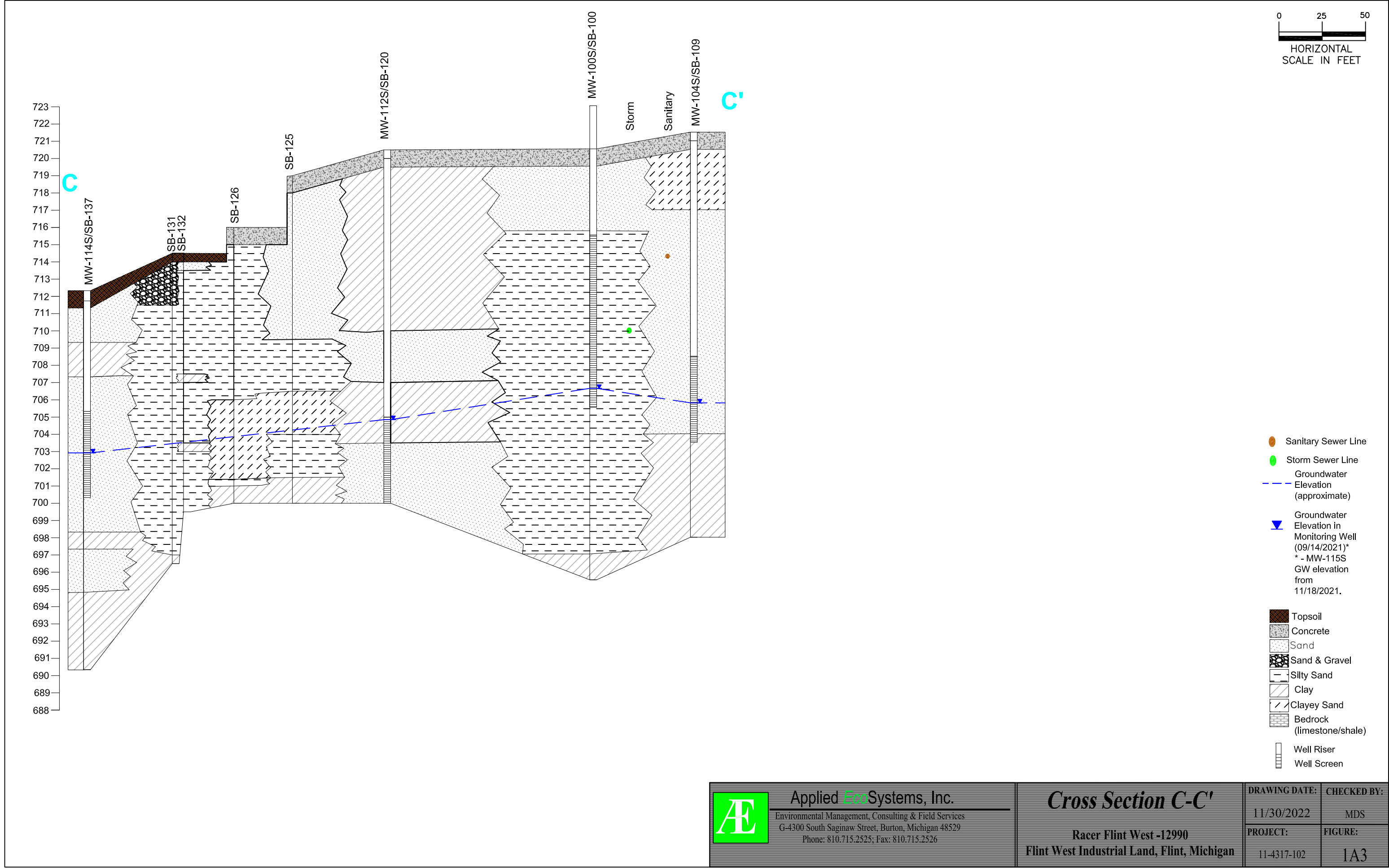


Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-100S TOS(bgs): 5 BOS(bgs): 15 GE: 720.56 Finish: stickup Stickup Height: 2.50	723.06	ND	14.97	708.09	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	12	<1
	723.06	ND	15.26	707.80	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.15	<1	<1	<1	0.32	<1	9	<1
	723.06	ND	16.07	706.99	08/18/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.25	<1	<1	<1	<1	<1	3	<1
	723.06	ND	17.48	705.58	03/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	723.06	ND	16.40	706.66	09/14/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	6	<1
	723.06	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.63	705.43	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.42	705.64	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.62	705.44	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.40	705.66	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	16.35	706.71	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	15.94	707.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-101S TOS(bgs): 9 BOS(bgs): 19 GE: 719.58 Finish: stickup Stickup Height: 2.50 well destroyed well destroyed well destroyed well destroyed Abandoned 3/18/25	722.08	ND	15.84	706.24	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.08	ND	16.00	706.08	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.25	<1	<1	<1
	722.08	ND	17.00	705.08	08/18/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.08	ND	18.58	703.50	03/03/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.08	ND	17.59	704.49	09/14/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.08	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	15.96	706.12	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	16.56	705.52	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-102S TOS(bgs): 9 BOS(bgs): 19 GE: 720.28 Finish: stickup Stickup Height: 2.50	722.78	ND	15.58	707.20	07/17/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.78	ND	15.61	707.17	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.11	<1	<1	<1
	722.78	ND	16.13	706.65	08/18/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.15	<1	<1	<1	<1	<1	<1	<1
	722.78	ND	17.07	705.71	03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.78	ND	16.48	706.30	09/14/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.78	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.81	705.97	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.36	705.42	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.39	705.39	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.23	705.55	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.78	707.00	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.88	706.90	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-103S TOS(bgs): 9 BOS(bgs): 19 GE: 717.16 Finish: stickup Stickup Height: 2.50	719.66	ND	13.71	705.95	07/17/19	4.1	<25	0.26	<1	<1	<5	<1	0.47	<1	<5	<1	<1	<1	<1	<1	<1	<1
	719.66	ND	13.58	706.08	02/28/20	<50	<25	0.26	<1	<1	0.26	<1	0.53	<1	<5	<1	<1	<1	<1	<1	<1	<1
	719.66	ND	14.22	705.44	08/19/20	<50	<25	0.91	<1	<1	<5	<1	3	<1	0.91	<1	<1	0.13	<1	<1	0.44	<1
	719.66	ND	15.05	704.61	03/03/21	<50	<25	0.71	<1	<1	<5	<1	4	<1	<5	<1	<1	<1	<1	<1	<1	<1
	719.66	ND	14.31	705.35	09/14/21	<50	<25	<1	<1	<1	0.17	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	719.66	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.66	14.68	14.86	704.80	03/16/22	<50	<25	0.54	<1	<1	0.18	<1	0.64	<1	<5	<1	<1	<1	<1	<1	0.12	<1
	719.66	ND	15.05	704.61	09/13/22	<50	<25	1	<1	<1	<5	<1	2	<1	<5	<1	<1	0.17	<1	0.13	0.16	<1
	719.66	ND	15.00	704.66	03/21/23	<50	<25	0.22	0.2	<1	0.24	<1	3	<1	<5	<1	<1	0.27	<1	<1	<1	<1
	719.66	ND	13.22	706.44	09/14/23	<50	<25	<1	<1	<1	<5	<1	0.18	<1	<5	<1	<1	<1	<1	<1	<1	<1
	719.66	ND	13.69	705.97	03/28/24	<50	<25	0.25	<1	<1	<5	<1	0.33	<1	<5	<1	<1	<1	<1	<1	0.2	<1
	719.66	ND	13.87	705.79	09/17/24	<50	<25	0.92	<1	<1	<5	<1	1	<1	<5	<1	<1	<1	<1	<1	0.56	<1
	719.66	ND	15.01	704.65	03/18/25	<50	<25	0.31	<1	<1	<5	<1	2	<1	<5	<1	<1	<1	<1	<1	<1	<1
MW-104S TOS(bgs): 13 BOS(bgs): 18 GE: 721.53 Finish: flushmount TOC Depth: -0.50	721.03	ND	13.68	707.35	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	0.29	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	13.79	707.24	02/25/20	<50	<25	<1	<1	0.17	<5	<1	<1	0.71	<5	<1	<1	<1	0.37	<1	<1	<1
	721.03	ND	14.22	706.81	08/18/20	<50	<25	<1	<1	0.23	0.11	<1	<1	1	0.17	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	9.12	711.91	03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	1	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	15.21	705.82	09/14/21	<50	<25	<1	<1	0.25	<5	<1	<1	1	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.47	705.56	03/16/22	<50	<25	<1	<1	0.19	0.19	<1	<1	0.45	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	15.21	705.82	09/13/22	<50	<25	<1	<1	0.28	0.13	<1	<1	0.47	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	16.25	704.78	03/21/23	<50	<25	<1	<1	<1	<5	<1	<1	0.59	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	14.52	706.51	03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	721.03	ND	14.15	706.88	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-105S TOS(bgs): 13 BOS(bgs): 18 GE: 723.64 Finish: flushmount TOC Depth: -0.50	723.14	ND	12.88	710.26	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.14	ND	12.89	710.25	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.26	<1	<1	<1
	723.14	ND	14.32	708.82	08/18/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.14	ND	14.33	708.81	03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.14	ND	14.34	708.80	09/14/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.14	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.15	708.99	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.17	708.97	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.69	708.45	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.08	709.06	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.30	709.84	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.43	709.71	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.03	709.11	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-106SR TOS(bgs): 13 BOS(bgs): 18 GE: 723.86 Finish: flushmount TOC Depth: -0.50	723.36	ND	14.56	708.80	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	ND	14.63	708.73	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	0.24	<5	<1	<1	<1	0.23	<1	<1	<1
	723.36	ND	14.32	709.04	08/18/20	<50	<25	<1	<1	<1	<5	<1	<1	0.23	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	DRY	16.47	706.89	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	DRY	15.87	707.49	09/14/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.30	707.06	03/16/22	<50	<25	<1	<1	<1	0.24	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	ND	15.92	707.44	09/13/22	<50	<25	<1	<1	<1	0.15	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	ND	17.09	706.27	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	15.11	708.25	09/14/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	ND	15.21	708.15	03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	723.36	ND	15.85	707.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.06	707.30	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-107S TOS(bgs): 13 BOS(bgs): 18 GE: 723.37 Finish: flushmount TOC Depth: -0.50	722.87	ND	15.35	707.52	07/16/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.87	ND	15.27	707.60	02/25/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.26	<1	0.11	<1
	722.87	ND	14.62	708.25	08/18/20	<50	<25	0.14	<1	<1	<5	<1	<1	<1	0.11	0.29	<1	<1	<1	<1	1	<1
	722.87	ND	16.81	706.06	03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	10	<1
	722.87	ND	16.20	706.67	09/15/21	1.85	<25	<1	<1	<1	0.29	<1	<1	<1	<5	<1	<1	<1	<1	0.26	0.57	<1
	722.87	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.61	706.26	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.40	706.47	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	17.21	705.66	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.87	707.00	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.64	707.23	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.07	706.80	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-108S TOS(bgs): 11 BOS(bgs): 16 GE: 711.52 Finish: stickup Stickup Height: 2.50	714.02	ND	11.22	702.80	07/17/19	<50	<25	<1	<1	<1	<5	2	<1	1	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	10.85	703.17	02/27/20	<50	<25	<1	<1	<1	<5	2	<1	0.81	<5	<1	<1	<1	0.13	<1	<1	<1
	714.02	ND	11.97	702.05	08/19/20	<50	<25	<1	<1	<1	0.12	3	<1	1	0.23	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	12.34	701.68	03/03/21	<50	<25	<1	<1	<1	<5	2	<1	1	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	12.32	701.70	09/15/21	2.6	<25	<1	<1	<1	<5	2	<1	2	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	11.90	702.12	03/16/22	<50	<25	<1	<1	<1	0.2	2	<1	0.8	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	12.97	701.05	09/13/22	<50	<25	<1	<1	<1	<5	2	<1	2	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	12.45	701.57	03/21/23	<50	<25	<1	<1	<1	<5	2	<1	2	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	10.66	703.36	09/14/23	<50	<25	<1	<1	<1	<5	3	<1	1	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	10.71	703.31	03/27/24	<50	<25	<1	<1	<1	<5	2	<1	0.87	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	11.47	702.55	09/17/24	<50	<25	<1	<1	<1	<5	2	<1	0.67	<5	<1	<1	<1	<1	<1	<1	<1
	714.02	ND	11.09	702.93	03/18/25	<50	<25	<1	<1	<1	<5	2	<1	0.76	<5	<1	<1	<1	<1	<1	<1	<1
	Dupe1 (MW-108S)				03/18/25	<50	<25	<1	<1	<1	<5	2	<1	0.76	<5	<1	<1	<1	<1	<1	<1	<1

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-109S TOS(bgs): 9 BOS(bgs): 14 GE: 712.12 Finish: stickup Stickup Height: 2.50	714.62	ND	11.14	703.48	07/17/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.82	<1	<1	<1	9	0.42
	714.62	ND	10.89	703.73	02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.13	1	1	<1	0.1	<1	17	0.5
	714.62	ND	11.66	702.96	08/19/20	<50	<25	<1	<1	<1	0.1	<1	<1	<1	0.22	0.96	1	<1	<1	<1	14	0.57
	714.62	ND	11.98	702.64	03/03/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.7	1	<1	<1	<1	15	0.48
	714.62	ND	11.67	702.95	09/15/21	0.78	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.93	1	<1	<1	<1	14	0.62
	714.62	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.59	703.03	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	12.25	702.37	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.70	702.92	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.08	703.54	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	8.10	706.52	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.27	703.35	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.05	703.57	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-110S TOS(bgs): 9 BOS(bgs): 14 GE: 710.57 Finish: stickup Stickup Height: 2.50	713.07	ND	11.83	701.24	07/17/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	11.45	701.62	02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.14	<1	<1	<1
	713.07	ND	12.18	700.89	08/19/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.17	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	12.04	701.03	03/03/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	12.36	700.71	09/15/21	2.02	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	713.07	ND	12.02	701.05	03/16/22	<50	<25	<1	<1	<1	0.2	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	12.76	700.31	09/13/22	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	11.73	701.34	03/21/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	11.54	701.53	09/14/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	11.17	701.90	03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	12.88	700.19	09/17/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	713.07	ND	11.07	702.00	03/18/25	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
MW-111S TOS(bgs): 9 BOS(bgs): 14 GE: 717.03 Finish: stickup Stickup Height: 2.50	719.53	ND	12.88	706.65	07/17/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	0.82	<1
	719.53	ND	12.65	706.88	02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	0.21	<1	0.35	<1
	719.53	ND	13.54	705.99	08/19/20	<50	<25	<1	<1	<1	0.1	<1	<1	0.11	0.2	<1	<1	<1	<1	<1	1	<1
	719.53	ND	14.55	704.98	03/03/21	<50	<25	<1	<1	<1	<5	<1	<1	0.34	<5	1	0.6	<1	<1	<1	18	<1
	719.53	ND	13.63	705.90	09/16/21	<50	<25	<1	<1	<1	0.12	<1	<1	<1	<5	<1	<1	<1	<1	<1	8	<1
	719.53	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.01	705.52	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.59	704.94	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.07	706.46	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.17	706.36	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.25	705.28	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-112S TOS(bgs): 15 BOS(bgs): 20 GE: 720.50 Finish: flushmount TOC Depth: -0.50	720.00	ND	14.43	705.57	07/16/19	4.8	<25	0.19	<1	<1	<5	<1	<1	<1	<5	0.85	1	<1	<1	<1	3	0.29
	Dupe 1 (MW-112S)				07/16/19	4.1	<25	0.21	<1	<1	<5	<1	<1	<1	<5	0.78	1	<1	<1	<1	3	0.31
	720.00	ND	14.59	705.41	02/27/20	<50	<25	0.2	<1	<1	<5	<1	<1	<1	<5	0.99	1	0.15	0.19	<1	3	0.28
	Dupe 1 (MW-112S)				02/27/20	<50	<25	0.22	<1	<1	<5	<1	<1	<1	<5	1	1	0.11	0.2	<1	3	0.24
	720.00	ND	14.95	705.05	08/18/20	<50	<25	0.17	<1	<1	<5	<1	<1	<1	<5	0.7	1	<1	<1	<1	2	0.19
	Dupe #1 (MW-112S)				08/18/20	<50	<25	0.16	<1	<1	<5	<1	<1	<1	<5	0.66	1	<1	<1	<1	2	0.17
	720.00	ND	17.02	702.98	03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.75	<1	<1	<1	4	<1
	Dupe1 (MW-112S)				03/02/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.82	<1	<1	<1	4	0.24
	720.00	ND	15.15	704.85	09/15/21	4.13	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.51	0.92	<1	<1	<1	2	<1
	Dupe 1				09/15/21	<50	<25	0.12	<1	<1	<5	<1	0.14	<1	<5	0.61	1	0.11	<1	<1	3	0.18
	720.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.00	ND	16.35	703.65	03/16/22	<50	<25	<1	<1	<1	0.23	<1	<1	<1	<5	0.41	0.38	0.12	<1	<1	0.88	0.13
	720.00	ND	16.70	703.30	09/13/22	6.5	<25	<1	<1	<1	0.15	<1	<1	<1	<5	0.69	0.39	<1	<1	<1	3	0.17
	720.00	ND	16.80	703.20	03/21/23	5.4	<25	<1	<1	<1	0.23	<1	<1	<1	<5	0.35	<1	<1	<1	<1	0.78	<1
	720.00	ND	14.27	705.73	09/14/23	<50	<25	0.2	<1	<1	<5	<1	<1	<1	<5	0.68	1	<1	<1	<1	3	0.3
MW-113S TOS(bgs): 8.5 BOS(bgs): 13.5 GE: 711.50 Finish: stickup Stickup Height: 2.50	720.00	ND	15.19	704.81	03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.44	0.35	<1	<1	<1	0.94	<1
	720.00	ND	14.61	705.39	09/17/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.55	0.95	0.14	<1	<1	2	<1
	720.00	ND	16.04	703.96	03/18/25	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.37	<1	<1	<1	<1	0.76	<1
	714.00	ND	12.31	701.69	07/17/19	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	1	<1
	714.00	ND	12.02	701.98	02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	<1	0.44	<1	<1	<1	0.17	<1	0.44	<1
	714.00	ND	12.79	701.21	08/19/20	<50	<25	<1	<1	<1	0.12	<1	<1	0.12	0.31	<1	0.21	<1	<1	<1	1	<1
	714.00	ND	12.94	701.06	03/03/21	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	0.34	<1
	714.00	ND	13.01	700.99	09/15/21	1.93	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	2	<1
	714.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.89	701.11	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.60	700.40	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.00	701.00	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.78	701.22	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.21	701.79	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.49	701.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.08	701.92	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5	
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)	
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)	
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)	
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																		
MW-114S TOS(bgs): 7 BOS(bgs): 12 GE: 712.33 Finish: stickup Stickup Height: -0.59	711.74	ND	8.36	703.38	07/17/19	48	17	<5	<5	<5	<30	<5	<5	<5	<30	2.5	<5	<5	<5	<5	244	1.35	
	Dupe 2 (MW-114S)					07/17/19	51	18	<5	<5	<5	<30	<5	<5	<30	2.55	<5	<5	<5	<5	244	1.45	
	711.74	ND	8.11	703.63	02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	0.22	<5	3	0.84	<1	<1	<1	127	0.78	
	Dupe 2 (MW-114S)					02/27/20	<50	<25	<1	<1	<1	<5	<1	<1	0.23	<5	2	0.82	<1	<1	<1	125	0.83
	711.74	ND	8.82	702.92	08/19/20	<500	<250	<10	<10	<10	<50	<10	<10	<10	<50	3	<10	<10	<10	<10	130	1.2	
	Dupe #2 (MW-114S)					08/19/20	<500	<250	<10	<10	<10	<50	<10	<10	<10	<50	3.1	<10	<10	<10	<10	120	1
	711.74	ND	9.12	702.62	03/03/21	<500	<250	<10	<10	<10	<50	<10	<10	<10	<50	2.4	<10	<10	<10	<10	100	<10	
	Dupe-2 (MW-114S)					03/03/21	<500	<250	<10	<10	<10	<50	<10	<10	<10	<50	2.2	<10	<10	<10	<10	100	<10
	711.74	ND	8.82	702.92	09/15/21	21.3	<250	<10	<10	<10	<50	<10	<10	<10	<50	2.4	<10	<10	<10	<10	150	<10	
	Dupe 2					09/15/21	1.94	<25	<1	<1	<1	<5	<1	<1	<1	<5	3	1	<1	<1	<1	169	0.94
	711.74	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	711.74	ND	8.72	703.02	03/16/22	<50	<25	<1	<1	<1	0.19	<1	<1	0.14	<5	2	1	<1	<1	<1	131	0.75	
	Dupe1 (MW-114S)					03/16/22	<50	<25	<1	<1	<1	0.2	<1	<1	0.14	<5	2	1	<1	<1	<1	124	0.67
	711.74	ND	9.42	702.32	09/13/22	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	2	2	<1	<1	<1	142	0.95	
	Dupe1 (MW-114S)					09/13/22	4.7	<25	<1	<1	<1	<5	<1	<1	<1	<5	2	2	<1	<1	<1	136	0.82
	711.74	ND	8.84	702.90	03/21/23	<250	<130	<5	0.55	<5	<30	<5	<5	<5	<30	1.3	0.9	<5	<5	<5	59	0.55	
	Dupe1 (MW-114S)					03/21/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	1	<1	<1	<1	70	0.57
	711.74	ND	7.98	703.76	09/14/23	<250	<130	<5	<5	<5	<30	<5	<5	<5	<30	1.15	<5	<5	<5	<5	63	<5	
	Dupe1 (MW-114S)					09/14/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	2	0.78	<1	<1	<1	70	0.64
	711.74	ND	10.89	700.85	03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.77	0.34	<1	<1	<1	36	0.35	
	Dup1 (MW-114S)					03/27/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	0.8	0.36	<1	<1	<1	36	0.35
	711.74	ND	8.45	703.29	09/17/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.56	<1	<1	<1	58	0.64	
	Dup1 (MW-114S)					09/17/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.64	<1	<1	<1	58	0.61
	711.74	ND	8.06	703.68	03/18/25	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	1	0.62	<1	<1	<1	38	0.43	
MW-115S TOS(bgs): 7 BOS(bgs): 12 GE: 711.92 Finish: Stickup Stickup Height: 3.06	714.98	ND	11.35	703.63	11/18/21	<50	<25	0.25	<1	<1	<5	<1	0.23	<1	<5	<1	<1	0.48	<1	0.15	<1	<1	
	714.98	ND	11.89	703.09	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	12.43	702.55	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	11.94	703.04	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	11.23	703.75	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	11.10	703.88	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	11.47	703.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	714.98	ND	11.09	703.89	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 1a

Groundwater Analytical Results

RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Acetone	2-Butanone (MEK)	Benzene	n-Butylbenzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
Chemical Abstract Service Number						67-64-1	78-93-3	71-43-2	104-51-8	75-27-4	75-15-0	56-23-5	108-90-7	67-66-3	74-87-3	75-34-3	75-35-4	95-50-1	541-73-1	106-46-7	156-59-2	156-60-5
Drinking Water - Res						730	13,000	5 (A)	80	80 (A,W)	800	5 (A)	100 (A)	80 (A,W)	260	880	7 (A)	600 (A)	6.6	75 (A)	70 (A)	100 (A)
Drinking Water - Non-Res						2,100	38,000	5 (A)	230	80 (A,W)	2,300	5 (A)	100 (A)	80 (A,W)	1,100	2,500	7 (A)	600 (A)	19	75 (A)	70 (A)	100 (A)
Groundwater Surface Water Interface						1,700	2,200	200 (X)	ID	ID	ID	38 (X)	25	350	ID	740	130	13	28	17	620	1,500 (X)
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-116S TOS(bgs): 14 BOS(bgs): 19 GE: 719.95 Finish: Stickup Stickup Height: 3.02	722.97	ND	19.99	702.98	11/18/21	<50	<25	0.43	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	Dupe1 (MW-116S)			--	11/18/21	<50	<25	0.42	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	722.97	ND	20.87	702.10	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.15	701.82	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.25	701.72	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	20.94	702.03	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.89	703.08	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.88	703.09	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.09	701.88	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-117S TOS(bgs): 9 BOS(bgs): 14 GE: 717.15 Finish: Stickup Stickup Height: 3.09	720.24	ND	14.87	705.37	11/18/21	<50	<25	<1	<1	<1	<5	<1	<1	0.18	<5	<1	<1	<1	<1	<1	<1	<1
	720.24	ND	15.40	704.84	03/16/22	<50	<25	<1	<1	<1	0.18	<1	<1	0.25	<5	<1	<1	<1	<1	<1	0.21	<1
	720.24	ND	15.62	704.62	09/13/22	<50	<25	<1	<1	<1	<5	<1	<1	0.26	0.12	<1	<1	<1	<1	<1	<1	<1
	720.24	ND	15.20	705.04	03/21/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	720.24	ND	14.59	705.65	09/14/23	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	720.24	ND	14.68	705.56	03/28/24	<50	<25	<1	<1	<1	<5	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
	720.24	ND	14.97	705.27	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.24	ND	15.28	704.96	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Results in micrograms per liter (ug/L).

Only compounds detected are included on this summary table. See laboratory report for additional compounds analyzed.

Footnotes are presented behind the analytical summary tables.

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-100S TOS(bgs): 5 BOS(bgs): 15 GE: 720.56 Finish: stickup Stickup Height: 2.50	723.06	ND	14.97	708.09	07/16/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	10	<1	<1	<2	<3
	723.06	ND	15.26	707.80	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	16	<1	<1	<2	<3
	723.06	ND	16.07	706.99	08/18/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	10	<1	<1	<2	<3
	723.06	ND	17.48	705.58	03/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	723.06	ND	16.40	706.66	09/14/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	14	<1	<1	<2	<3
	723.06	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.63	705.43	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.42	705.64	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.62	705.44	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.40	705.66	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	16.35	706.71	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	15.94	707.12	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-101S TOS(bgs): 9 BOS(bgs): 19 GE: 719.58 Finish: stickup Stickup Height: 2.50 well destroyed well destroyed well destroyed well destroyed Abandoned 3/18/25	722.08	ND	15.84	706.24	07/16/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	0.14	<90	<1	1	<1	<1	<2	<3
	722.08	ND	16.00	706.08	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	2	<1	<1	<2	<3
	722.08	ND	17.00	705.08	08/18/20	<1	<50	<5	<5	<50	0.12	<5	<1	<5	<1	<5	<1	<1	<90	<1	5	<1	<1	<2	<3
	722.08	ND	18.58	703.50	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	2	<1	<1	<2	<3
	722.08	ND	17.59	704.49	09/14/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.11	3	<1	<1	<2	<3
	722.08	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	15.96	706.12	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	16.56	705.52	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-102S TOS(bgs): 9 BOS(bgs): 19 GE: 720.28 Finish: stickup Stickup Height: 2.50	722.78	ND	15.58	707.20	07/17/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	722.78	ND	15.61	707.17	02/25/20	<1	<50	<5	0.1	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.16	<1	<1	<2	<3
	722.78	ND	16.13	706.65	08/18/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.12	<1	<1	<2	<3
	722.78	ND	17.07	705.71	03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	722.78	ND	16.48	706.30	09/14/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.67	<1	<1	<2	<3
	722.78	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.81	705.97	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.36	705.42	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.39	705.39	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.23	705.55	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.78	707.00	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.88	706.90	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-103S TOS(bgs): 9 BOS(bgs): 19 GE: 717.16 Finish: stickup Stickup Height: 2.50	719.66	ND	13.71	705.95	07/17/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	719.66	ND	13.58	706.08	02/28/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	0.81	<1	<2	<3
	719.66	ND	14.22	705.44	08/19/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.19	<1	0.99	<1	<2	<3
	719.66	ND	15.05	704.61	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.34	<1	<1	<1	<2	<3
	719.66	ND	14.31	705.35	09/14/21	<1	<50	<5	0.25	<50	<5	0.13	<1	<5	<1	0.11	<1	<1	<90	<1	<1	<1	<1	<2	<3
	719.66	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.66	14.68	14.86	704.80	03/16/22	<1	<50	<5	0.3	<50	<5	<5	<1	0.14	<1	0.17	<1	<1	<90	<1	<1	0.21	<1	<2	<3
	719.66	ND	15.05	704.61	09/13/22	<1	<50	<5	0.24	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.16	<1	0.74	<1	<2	<3
	719.66	ND	15.00	704.66	03/21/23	0.12	<50	0.11	0.45	<50	<5	0.21	<1	0.15	<1	0.15	<1	<1	1.28	0.18	0.1	<1	0.11	0.22	0.33
	719.66	ND	13.22	706.44	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	719.66	ND	13.69	705.97	03/28/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	0.33	<5	0.29	<1	<90	<1	<1	<1	<1	<2	<3
	719.66	ND	13.87	705.79	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	1	<1	<2	<3
	719.66	ND	15.01	704.65	03/18/25	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.13	<1	<1	<1	<2	<3
MW-104S TOS(bgs): 13 BOS(bgs): 18 GE: 721.53 Finish: flushmount TOC Depth: -0.50	721.03	ND	13.68	707.35	07/16/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	13.79	707.24	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	14.22	706.81	08/18/20	<1	<50	<5	<5	<50	0.11	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	9.12	711.91	03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	15.21	705.82	09/14/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.24	<1	<1	<2	<3
	721.03	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.47	705.56	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.21	<1	<1	<2	<3
	721.03	ND	15.21	705.82	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	16.25	704.78	03/21/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	14.52	706.51	03/27/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	721.03	ND	14.15	706.88	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-105S TOS(bgs): 13 BOS(bgs): 18 GE: 723.64 Finish: flushmount TOC Depth: -0.50	723.14	ND	12.88	710.26	07/16/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	43	<90	<1	<1	<1	<1	<2	<3
	723.14	ND	12.89	710.25	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	78	<90	<1	<1	<1	<1	<2	<3
	723.14	ND	14.32	708.82	08/18/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	55	<90	<1	<1	<1	<1	<2	<3
	723.14	ND	14.33	708.81	03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	101	<90	<1	<1	<1	<1	<2	<3
	723.14	ND	14.34	708.80	09/14/21	<1	<50	<5	0.11	<50	<5	<5	<1	<5	<1	<5	<1	93	<90	<1	0.14	<1	<1	<2	<3
	723.14	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.15	708.99	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.17	708.97	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.69	708.45	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.08	709.06	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.30	709.84	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.43	709.71	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.03	709.11	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MTBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-106SR TOS(bgs): 13 BOS(bgs): 18 GE: 723.86 Finish: flushmount TOC Depth: -0.50	723.36	ND	14.56	708.80	07/16/19	<1	<50	<5	<5	<50	0.18	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	14.63	708.73	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	14.32	709.04	08/18/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	DRY	16.47	706.89	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	DRY	15.87	707.49	09/14/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.11	<1	<1	<2	<3
	723.36	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.30	707.06	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	15.92	707.44	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	17.09	706.27	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	15.11	708.25	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	15.21	708.15	03/27/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	723.36	ND	15.85	707.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.06	707.30	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-107S TOS(bgs): 13 BOS(bgs): 18 GE: 723.37 Finish: flushmount TOC Depth: -0.50	722.87	ND	15.35	707.52	07/16/19	<1	<50	<5	<5	<50	0.17	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	722.87	ND	15.27	707.60	02/25/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.15	<1	<1	<2	<3
	722.87	ND	14.62	708.25	08/18/20	<1	<50	<5	<5	<50	0.1	<5	<1	<5	<1	<5	<1	<1	<90	<1	2	0.94	<1	<2	<3
	722.87	ND	16.81	706.06	03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	2	3	<1	<2	<3
	722.87	ND	16.20	706.67	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	2	<1	<1	<2	<3
	722.87	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.61	706.26	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.40	706.47	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	17.21	705.66	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.87	707.00	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.64	707.23	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.07	706.80	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-108S TOS(bgs): 11 BOS(bgs): 16 GE: 711.52 Finish: stickup Stickup Height: 2.50	714.02	ND	11.22	702.80	07/17/19	<1	<50	<5	<5	<50	0.18	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	10.85	703.17	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.14	<1	<1	<2	<3
	714.02	ND	11.97	702.05	08/19/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.26	<1	<1	<2	<3
	714.02	ND	12.34	701.68	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	12.32	701.70	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.34	<1	<1	<2	<3
	714.02	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	11.90	702.12	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.18	<1	<1	<2	<3
	714.02	ND	12.97	701.05	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	12.45	701.57	03/21/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	10.66	703.36	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.27	<1	<1	<2	<3
	714.02	ND	10.71	703.31	03/27/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	11.47	702.55	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	714.02	ND	11.09	702.93	03/18/25	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	Dupe1 (MW-108S)				03/18/25	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.16	<1	<1	<2	<3

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of-Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-109S TOS(bgs): 9 BOS(bgs): 14 GE: 712.12 Finish: stickup Stickup Height: 2.50	714.62	ND	11.14	703.48	07/17/19	<1	<50	<5	<5	<50	0.19	<5	<1	<5	<1	<5	<1	<1	<90	<1	11	7	<1	<2	<3
	714.62	ND	10.89	703.73	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	13	18	<1	<2	<3
	714.62	ND	11.66	702.96	08/19/20	<1	<50	<5	<5	<50	0.12	<5	0.15	<5	<1	<5	<1	<1	<90	<1	21	11	<1	<2	<3
	714.62	ND	11.98	702.64	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	23	8	<1	<2	<3
	714.62	ND	11.67	702.95	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	25	11	<1	<2	<3
	714.62	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.59	703.03	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	12.25	702.37	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.70	702.92	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.08	703.54	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	8.10	706.52	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
714.62	ND	11.27	703.35	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
714.62	ND	11.05	703.57	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-110S TOS(bgs): 9 BOS(bgs): 14 GE: 710.57 Finish: stickup Stickup Height: 2.50	713.07	ND	11.83	701.24	07/17/19	<1	<50	<5	<5	<50	0.19	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	11.45	701.62	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	12.18	700.89	08/19/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	12.04	701.03	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	12.36	700.71	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	713.07	ND	12.02	701.05	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	12.76	700.31	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	11.73	701.34	03/21/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	713.07	ND	11.54	701.53	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.16	<1	<1	<2	<3
	713.07	ND	11.17	701.90	03/27/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
713.07	ND	12.88	700.19	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3	
713.07	ND	11.07	702.00	03/18/25	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.37	<1	<1	<2	<3	
MW-111S TOS(bgs): 9 BOS(bgs): 14 GE: 717.03 Finish: stickup Stickup Height: 2.50	719.53	ND	12.88	706.65	07/17/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	10	<1	<1	<2	<3
	719.53	ND	12.65	706.88	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	6	<1	<1	<2	<3
	719.53	ND	13.54	705.99	08/19/20	<1	<50	<5	<5	<50	0.13	<5	<1	<5	<1	<5	<1	<1	<90	<1	8	<1	<1	<2	<3
	719.53	ND	14.55	704.98	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	53	2	<1	<2	<3
	719.53	ND	13.63	705.90	09/16/21	<1	<50	<5	0.15	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	16	<1	<1	<2	<3
	719.53	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.01	705.52	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.59	704.94	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.07	706.46	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.17	706.36	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.25	705.28	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MTBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-112S TOS(bgs): 15 BOS(bgs): 20 GE: 720.50 Finish: flushmount TOC Depth: -0.50	720.00	ND	14.43	705.57	07/16/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	9	7	<1	<2	<3
	Dupe 1 (MW-112S)				07/16/19	<1	<50	<5	<5	<50	0.19	<5	<1	<5	<1	<5	<1	<1	<90	0.17	9	6	<1	<2	<3
	720.00	ND	14.59	705.41	02/27/20	<1	<50	<5	<5	<50	0.11	<5	<1	<5	<1	<5	<1	<1	<90	<1	6	10	<1	<2	<3
	Dupe 1 (MW-112S)				02/27/20	<1	<50	<5	<5	<50	0.13	<5	<1	<5	<1	<5	<1	<1	<90	<1	6	11	<1	<2	<3
	720.00	ND	14.95	705.05	08/18/20	<1	<50	<5	<5	<50	0.13	<5	<1	<5	<1	<5	<1	<1	<90	<1	4	6	<1	<2	<3
	Dupe #1 (MW-112S)				08/18/20	<1	<50	<5	<5	<50	0.13	<5	<1	<5	<1	<5	<1	<1	<90	0.1	4	5	<1	<2	<3
	720.00	ND	17.02	702.98	03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	10	2	<1	<2	<3
	Dupe1 (MW-112S)				03/02/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	11	3	<1	<2	<3
	720.00	ND	15.15	704.85	09/15/21	<1	<50	<5	<5	0.31	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	4	4	<1	<2	<3
	Dupe 1				09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	0.11	4	4	<1	<2	<3
	720.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.00	ND	16.35	703.65	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	2	<1	<2	<3
	720.00	ND	16.70	703.30	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	7	2	<1	<2	<3
	720.00	ND	16.80	703.20	03/21/23	<1	<50	<5	<5	0.55	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	0.83	<1	<2	<3
	720.00	ND	14.27	705.73	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	5	9	<1	<2	<3
MW-113S TOS(bgs): 8.5 BOS(bgs): 13.5 GE: 711.50 Finish: stickup Stickup Height: 2.50	720.00	ND	15.19	704.81	03/27/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	3	<1	<2	<3
	720.00	ND	14.61	705.39	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	3	7	<1	<2	<3
	720.00	ND	16.04	703.96	03/18/25	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	<1	<1	<2	<3
	714.00	ND	12.31	701.69	07/17/19	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	12	0.78	<1	<2	<3
	714.00	ND	12.02	701.98	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	7	0.79	<1	<2	<3
	714.00	ND	12.79	701.21	08/19/20	<1	<50	<5	<5	<50	0.12	<5	<1	<5	<1	<5	<1	<1	<90	<1	30	2	<1	<2	<3
	714.00	ND	12.94	701.06	03/03/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	5	0.62	<1	<2	<3
	714.00	ND	13.01	700.99	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	29	1	<1	<2	<3
	714.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.89	701.11	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.60	700.40	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.00	701.00	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.78	701.22	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.21	701.79	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.49	701.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.08	701.92	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnapthalene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Napthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total		
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	NA	1330-20-7	
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)		
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)		
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49		
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)						TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																	
MW-114S TOS(bgs): 7 BOS(bgs): 12 GE: 712.33 Finish: stickup Stickup Height: -0.59	711.74	ND	8.36	703.38	07/17/19	<5	2.05	<30	<30	<250	2.5	<30	1.7	<30	<5	<30	<5	<5	9.3	<5	179	8	<5	<10	<3		
	Dupe 2 (MW-114S)					--	07/17/19	<5	1.65	<30	<30	<250	2.5	<30	<5	<30	<5	<5	9.8	<5	169	8	<5	<10	<3		
	711.74	ND	8.11	703.63	02/27/20	<1	<50	<5	<5	<50	<5	<5	2	<5	<1	<5	<1	0.2	<90	<1	335	5	<1	<2	<3		
	Dupe 2 (MW-114S)					--	02/27/20	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	0.18	<90	<1	350	3	<1	<2	<3		
	711.74	ND	8.82	702.92	08/19/20	<10	<500	<50	<50	<500	10.2	<50	1.9	<50	<10	<50	<10	<10	7.6	<10	310	10	<10	<20	<3		
	Dupe #2 (MW-114S)					--	08/19/20	<10	<500	<50	<50	<500	9.9	<50	1.9	<50	<10	<50	<10	7.2	<10	290	10	<10	<20	<3	
	711.74	ND	9.12	702.62	03/03/21	<10	<500	<50	<50	<500	<50	<50	<10	<50	<10	<50	<10	<10	<900	<10	270	5.3	<10	<20	<30		
	Dupe-2 (MW-114S)					--	03/03/21	<10	<500	<50	<50	<500	<50	<50	<10	<50	<10	<50	<10	<900	<10	280	6.2	<10	<20	<30	
	711.74	ND	8.82	702.92	09/15/21	<10	<500	<50	<50	<500	<50	<50	<10	<50	<10	<50	<10	<10	<900	<10	200	9.3	<10	<20	<30		
	Dupe 2					--	09/15/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<1	<90	<1	226	11	<1	<2	<3		
	711.74	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	711.74	ND	8.72	703.02	03/16/22	<1	<50	<5	<5	<50	<5	<5	1	<5	<1	<5	<1	<1	<90	<1	172	7	<1	<2	<3		
	Dupe1 (MW-114S)					--	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<1	<90	<1	162	6	<1	<2	<3		
	711.74	ND	9.42	702.32	09/13/22	<1	<50	<5	<5	<50	<5	<5	1	<5	<1	<5	<1	<1	<90	<1	252	14	<1	<2	<3		
	Dupe1 (MW-114S)					--	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<1	<90	<1	219	13	<1	<2	<3		
	711.74	ND	8.84	702.90	03/21/23	<5	<250	<30	1.6	<250	<30	0.65	1.2	0.5	<5	<30	<5	<5	15.5	<5	173	3.95	<5	<10	<15		
	Dupe1 (MW-114S)					--	03/21/23	<1	<50	<5	<5	<50	<5	<5	0.93	<5	<1	<5	<1	<90	<1	199	6	<1	<2	<3	
	711.74	ND	7.98	703.76	09/14/23	<5	<250	<30	<30	<250	<30	<30	<5	<30	<5	<30	<5	<5	<450	<5	166	3.5	<5	<10	<3		
	Dupe1 (MW-114S)					--	09/14/23	<1	<50	<5	<5	<50	<5	<5	1	<5	<1	<1	<90	<1	202	5	<1	<2	<3		
	711.74	ND	10.89	700.85	03/27/24	<1	<50	<5	<5	<50	<5	<5	0.58	<5	<1	<5	<1	<1	<90	<1	129	2	<1	<2	<3		
	Dup1 (MW-114S)					--	03/27/24	<1	<50	<5	<5	<50	<5	<5	0.59	<5	<1	<5	<1	<1	<90	<1	132	2	<1	<2	<3
	711.74	ND	8.45	703.29	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	216	4	<1	<2	<3		
	Dup1 (MW-114S)					--	09/17/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<1	<90	<1	213	4	<1	<2	<3		
	711.74	ND	8.06	703.68	03/18/25	<1	<50	<5	<5	<50	<5	<5	0.72	<5	<1	<5	<1	<1	<90	<1	161	2	<1	<2	<3		
MW-115S TOS(bgs): 7 BOS(bgs): 12 GE: 711.92 Finish: Stickup Stickup Height: 3.06	714.98	ND	11.35	703.63	11/18/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	0.95	<1	<2	<3		
	714.98	ND	11.89	703.09	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	12.43	702.55	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	11.94	703.04	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	11.23	703.75	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	11.10	703.88	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	11.47	703.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	714.98	ND	11.09	703.89	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		

Table 1a

Groundwater Analytical Results

RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Ethyl benzene	2-Hexanone	p-Isopropyltoluene	2-Methylnaphthalene	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Naphthalene	1,1,1-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trimethylbenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran	Toluene	Trichloroethylene (TCE)	Vinyl Chloride	o-Xylene	p,m-Xylene	Xylenes, Total
Chemical Abstract Service Number						100-41-4	591-78-6	99-87-6	91-57-6	108-10-1	75-09-2	91-20-3	71-55-6	87-61-6	526-73-8	120-82-1	95-63-6	127-18-4	109-99-9	108-88-3	79-01-6	75-01-4	95-47-6	NA	1330-20-7
Drinking Water - Res						74 (E)	1,000	NA	260	1,800	5 (A)	520	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	95	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Drinking Water - Non-Res						74 (E)	2,900	NA	750	5,200	5 (A)	1,500	200 (A)	NA	NA	70 (A)	63 (E)	5 (A)	270	790 (E)	5 (A)	2 (A)	NA	NA	280 (E)
Groundwater Surface Water Interface						18	ID	NA	19	ID	1,500 (X)	11	89	NA	NA	99 (X)	17	60 (X)	11,000 (X)	270	200 (X)	13 (X)	NA	NA	49
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																				
MW-116S TOS(bgs): 14 BOS(bgs): 19 GE: 719.95 Finish: Stickup Stickup Height: 3.02	722.97	ND	19.99	702.98	11/18/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	Dupe1 (MW-116S)				11/18/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	<1	<1	<1	<2	<3
	722.97	ND	20.87	702.10	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.15	701.82	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.25	701.72	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	20.94	702.03	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.89	703.08	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.88	703.09	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-117S TOS(bgs): 9 BOS(bgs): 14 GE: 717.15 Finish: Stickup Stickup Height: 3.09	720.24	ND	14.87	705.37	11/18/21	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	<1	<1	<2	<3
	720.24	ND	15.40	704.84	03/16/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	1	<1	<1	<2	<3
	720.24	ND	15.62	704.62	09/13/22	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	0.21	<90	<1	1	<1	<1	<2	<3
	720.24	ND	15.20	705.04	03/21/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	0.14	<90	<1	<1	<1	<1	<2	<3
	720.24	ND	14.59	705.65	09/14/23	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	0.19	<90	<1	0.29	<1	<1	<2	<3
	720.24	ND	14.68	705.56	03/28/24	<1	<50	<5	<5	<50	<5	<5	<1	<5	<1	<5	<1	<1	<90	<1	0.22	<1	<1	<2	<3
	720.24	ND	14.97	705.27	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.24	ND	15.28	704.96	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Results in micrograms per liter (ug/L).

Only compounds detected are included on this summary table. See laboratory report for additional compounds analyzed.

Footnotes are presented behind the analytical summary tables.

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-100S TOS(bgs): 5 BOS(bgs): 15 GE: 720.56 Finish: stickup Stickup Height: 2.50	723.06	ND	14.97	708.09	07/16/19	0.298	0.572	0.345	0.56	<0.01	<0.01	0.829	0.816	<0.003	<0.003	<0.005	<0.005	7	2.75
	723.06	ND	15.26	707.80	02/25/20	<2	<2	0.275	0.42	<5	<10	0.405	<5	<3	0.249	<5	<5	6	1.56
	723.06	ND	16.07	706.99	08/18/20	0.57	<2	0.548	0.938	<10	<10	0.489	0.709	0.274	0.234	<5	<5	3.794	2.732
	723.06	ND	17.48	705.58	03/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	723.06	ND	16.40	706.66	09/14/21	<2	0.53	0.46	3.58	<10	<10	0.71	1.73	<3	0.35	3.79	2.65	4.11	3.09
	723.06	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.63	705.43	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.42	705.64	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.62	705.44	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.40	705.66	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	16.35	706.71	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	15.94	707.12	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-101S TOS(bgs): 9 BOS(bgs): 19 GE: 719.58 Finish: stickup Stickup Height: 2.50	722.08	ND	15.84	706.24	07/16/19	0.475	0.521	3.944	2.54	<0.01	<0.01	2.404	3.124	1.434	0.361	<0.005	<0.005	9	7
	722.08	ND	16.00	706.08	02/25/20	<2	<2	0.891	2.753	<5	<10	<0.005	0.698	<3	0.283	<5	<5	4.654	2.074
	722.08	ND	17.00	705.08	08/18/20	<2	1.019	1.225	2.151	<10	<10	<5	0.596	<3	0.409	<5	<5	7	2.35
	722.08	ND	18.58	703.50	03/03/21	<2	9	4.09	351	<10	<2	0.579	34	0.4	17	<5	<5	3.28	75
	722.08	ND	17.59	704.49	09/14/21	<2	6	1.05	70	<10	<250	1	22	<3	13	2.29	<5	2.38	59
	722.08	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	15.96	706.12	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	16.56	705.52	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-102S TOS(bgs): 9 BOS(bgs): 19 GE: 720.28 Finish: stickup Stickup Height: 2.50	722.78	ND	15.58	707.20	07/17/19	0.577	<0.002	5	6	<0.01	<0.01	0.579	0.742	<0.003	<0.003	<0.005	<0.005	8	2.47
	722.78	ND	15.61	707.17	02/25/20	<2	<2	7	6	8	<10	<0.005	0.516	<3	<3	<5	<5	5	1.632
	722.78	ND	16.13	706.65	08/18/20	0.362	0.414	2.804	1170	<10	<10	1.301	55	<3	<3	<5	<5	6	1.075
	722.78	ND	17.07	705.71	03/02/21	<2	0.318	2	15	<10	<10	<5	1.2	<3	0.412	<5	<5	3.63	3.09
	722.78	ND	16.48	706.30	09/14/21	<2	0.51	7	7	<10	8	<5	0.45	<3	<3	<5	<5	6	2.38
	722.78	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.81	705.97	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.36	705.42	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.39	705.39	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.23	705.55	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.78	707.00	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.88	706.90	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-103S TOS(bgs): 9 BOS(bgs): 19 GE: 717.16 Finish: stickup Stickup Height: 2.50	719.66	ND	13.71	705.95	07/17/19	7	39	0.246	0.382	<0.01	<0.02	<0.005	0.775	<0.003	<0.003	<0.005	<0.005	4.05	1.04
	719.66	ND	13.58	706.08	02/28/20	4	46	0.204	0.388	<10	<20	<0.005	0.528	0.208	<3	<5	<5	2.299	2.05
	719.66	ND	14.22	705.44	08/19/20	13	64	0.174	0.221	<20	<250	<5	<5	<3	<3	<5	<5	2.013	1.046
	719.66	ND	15.05	704.61	03/03/21	18	37	0.212	0.229	<10	<2	<5	<5	<3	<3	<5	<5	2.62	2.28
	719.66	ND	14.31	705.35	09/14/21	10	34	<5	0.36	<10	<250	<5	0.84	<3	0.21	<5	3.31	5	7
	719.66	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.66	14.68	14.86	704.80	03/16/22	8	39	<10	<10	0.238	0.258	<5	<5	<3	<3	<5	<5	1.75	1.72
	719.66	ND	15.05	704.61	09/13/22	20	57	<10	<250	0.2	0.969	<5	<5	<3	<3	<5	<5	0.823	<5
	719.66	ND	15.00	704.66	03/21/23	8	14	<10	<0.25	0.204	0.406	<0.005	0.469	<3	<3	<5	<5	1.17	1.68
	719.66	ND	13.22	706.44	09/14/23	13	40	<50	<50	0.181	0.342	<5	<5	<3	<3	<5	<5	0.904	<5
	719.66	ND	13.69	705.97	03/28/24	0.032	0.045	<5	<5	<20	<250	<5	<5	<3	<3	<5	<5	<5	<5
	719.66	ND	13.87	705.79	09/17/24	16	55	4	<250	<5	<5	<5	<5	<3	<3	<5	<5	<5	<5
	719.66	ND	15.01	704.65	03/18/25	7	18	<5	0.899	<20	<20	<5	<5	<3	<3	<5	<5	<5	<5
MW-104S TOS(bgs): 13 BOS(bgs): 18 GE: 721.53 Finish: flushmount TOC Depth: -0.50	721.03	ND	13.68	707.35	07/16/19	0.496	0.358	0.302	34	<0.01	<0.01	1.698	3.404	<0.003	<0.003	<0.005	<0.005	7	4.85
	721.03	ND	13.79	707.24	02/25/20	<2	<2	0.562	16	<5	<10	3.473	9	<3	<3	<5	<5	9	14
	721.03	ND	14.22	706.81	08/18/20	<2	0.339	0.474	61	<10	<10	0.707	2.148	<3	<3	<5	<5	9	1.538
	721.03	ND	9.12	711.91	03/02/21	<2	0.493	3.14	1210	<10	<10	0.766	30	<3	<3	<5	<5	3.3	2.44
	721.03	ND	15.21	705.82	09/14/21	<2	<2	0.19	100	<10	<10	0.75	2.89	<3	<3	2.79	2.1	5	3.17
	721.03	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.47	705.56	03/16/22	0.423	0.872	<10	<10	0.725	106	0.441	1.738	<3	<3	3.52	3.7	1.968	1.933
	721.03	ND	15.21	705.82	09/13/22	1.779	4	<10	<50	10	17,100	1.252	129	<3	0.297	3.904	6	<5	7
	721.03	ND	16.25	704.78	03/21/23	1.4	1.38	<10	<10	0.502	70	1.46	3.59	<3	<3	<5	2.45	1.87	2.37
	721.03	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	14.52	706.51	03/27/24	<2	<2	<5	60	<10	<10	1.156	6	<3	<3	5	6	<5	4.754
	721.03	ND	14.15	706.88	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-105S TOS(bgs): 13 BOS(bgs): 18 GE: 723.64 Finish: flushmount TOC Depth: -0.50	723.14	ND	12.88	710.26	07/16/19	0.399	1.03	0.802	83	<0.01	<0.01	2.039	4.683	0.673	0.303	2.39	<0.005	7	6
	723.14	ND	12.89	710.25	02/25/20	<2	0.316	0.463	280	<5	<10	0.396	6	<3	<3	9	9	1.504	1.948
	723.14	ND	14.32	708.82	08/18/20	<2	0.558	1.072	24	<10	<10	0.563	0.971	<3	<3	9	10	3.668	6
	723.14	ND	14.33	708.81	03/02/21	<2	0.423	0.779	30	<10	<10	0.651	1.28	<3	<3	<5	<5	3.21	1.81
	723.14	ND	14.34	708.80	09/14/21	0.52	0.78	0.76	35	<10	<10	<5	0.56	<3	0.25	6	4.95	4.37	2.39
	723.14	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.15	708.99	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.17	708.97	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.69	708.45	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.08	709.06	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.30	709.84	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.43	709.71	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.03	709.11	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-106SR TOS(bgs): 13 BOS(bgs): 18 GE: 723.86 Finish: flushmount TOC Depth: -0.50	723.36	ND	14.56	708.80	07/16/19	<0.002	0.275	0.328	4.544	<0.01	<0.01	0.898	1.603	<0.003	0.216	<0.005	<0.005	7	2.62
	723.36	ND	14.63	708.73	02/25/20	<2	1.173	0.719	764	<5	<10	0.576	14	<3	0.886	<5	<5	1.216	7
	723.36	ND	14.32	709.04	08/18/20	0.934	0.314	1.389	22	<10	<10	0.814	1.003	<3	<3	<5	<5	3.46	1.828
	723.36	DRY	16.47	706.89	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	DRY	15.87	707.49	09/14/21	<2	2	2.19	5800	<10	<10	519	54	0.31	0.97	3.53	4.53	3.11	7
	723.36	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.30	707.06	03/16/22	0.616	1.593	<10	<10	0.875	2020	0.781	33	<3	1.062	3.6	3.78	10	31
	723.36	ND	15.92	707.44	09/13/22	1.625	2	<10	<50	1.056	278	1.603	7	<3	0.271	4.346	7	2.639	6
	723.36	ND	17.09	706.27	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	15.11	708.25	09/14/23	2	3	<10	<10	0.575	155	0.735	2.188	<3	0.251	3.89	4.114	1.279	<5
	723.36	ND	15.21	708.15	03/27/24	3	1.629	1.218	598	<10	<10	<5	9	<3	<3	<5	<5	<5	4.121
	723.36	ND	15.85	707.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.06	707.30	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-107S TOS(bgs): 13 BOS(bgs): 18 GE: 723.37 Finish: flushmount TOC Depth: -0.50	722.87	ND	15.35	707.52	07/16/19	0.485	<0.002	0.286	0.301	<0.01	<0.01	1.576	1.663	<0.003	<0.003	<0.005	<0.005	27	22
	722.87	ND	15.27	707.60	02/25/20	<2	0.465	<5	0.185	<5	4	0.86	0.996	<3	0.283	<5	<5	9	6
	722.87	ND	14.62	708.25	08/18/20	<2	0.258	0.14	<0.005	<10	<10	0.478	0.417	<3	<3	<5	<5	3.679	1.729
	722.87	ND	16.81	706.06	03/02/21	0.441	0.578	0.181	<5	<10	<10	0.517	0.59	<3	<3	<5	<5	10	8
	722.87	ND	16.20	706.67	09/15/21	0.5	0.26	0.83	0.11	<10	<10	1.01	1	0.21	0.31	2.27	<5	7	4.08
	722.87	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.61	706.26	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.40	706.47	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	17.21	705.66	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.87	707.00	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.64	707.23	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.07	706.80	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-108S TOS(bgs): 11 BOS(bgs): 16 GE: 711.52 Finish: stickup Stickup Height: 2.50	714.02	ND	11.22	702.80	07/17/19	0.483	0.328	0.326	0.575	<0.01	<0.01	0.545	0.975	<0.003	0.37	<0.005	<0.005	1.13	5
	714.02	ND	10.85	703.17	02/27/20	0.257	<2	0.295	0.431	<5	<25	1.357	0.564	<3	<3	<5	<5	7	2.742
	714.02	ND	11.97	702.05	08/19/20	<0.002	<0.002	0.299	0.207	<10	<10	0.418	0.448	<3	<3	<5	<5	6	4.07
	714.02	ND	12.34	701.68	03/03/21	<0.002	0.257	0.132	1.03	<10	<10	0.665	0.963	<3	<3	<5	<5	5	3.88
	714.02	ND	12.32	701.70	09/15/21	<2	<2	0.35	0.16	<10	<10	1.28	1.34	0.24	0.23	<5	<5	12	6
	714.02	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	11.90	702.12	03/16/22	<2	1.122	<10	<10	0.298	0.364	0.505	0.628	<3	<3	3.13	3.16	2.015	2.611
	714.02	ND	12.97	701.05	09/13/22	0.565	0.332	<10	<10	0.428	1.308	0.853	0.747	<3	<3	2.48	3.116	2.316	2.116
	714.02	ND	12.45	701.57	03/21/23	0.381	0.465	<10	<10	0.27	0.559	0.856	2.42	<3	0.508	4.27	6	2.38	6
	714.02	ND	10.66	703.36	09/14/23	1.347	2	<10	<10	1.099	0.414	<5	<5	<3	<3	6	6	0.789	1.573
	714.02	ND	10.71	703.31	03/27/24	<2	<2	<5	<5	<10	<10	<5	<5	<3	<3	7	7	<5	<5
	714.02	ND	11.47	702.55	09/17/24	<2	<2	<10	<10	<5	<5	<5	<5	<3	1.063	<5	<5	11	13
	714.02	ND	11.09	702.93	03/18/25	<2	<2	<10	<10	<2	3.686	<5	1.149	<3	<3	<5	<5	5	11
	Dupe1 (MW-108S)				03/18/25	<2	<2	<5	3.686	<10	<10	<5	0.935	<3	<3	<5	<5	5	14

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-109S TOS(bgs): 9 BOS(bgs): 14 GE: 712.12 Finish: stickup Stickup Height: 2.50	714.62	ND	11.14	703.48	07/17/19	10	73	0.265	2.927	<0.01	<0.02	<0.005	0.774	<0.003	<0.003	<0.005	<0.005	1.92	4.43
	714.62	ND	10.89	703.73	02/27/20	9	69	0.138	1.767	<5	<500	<5	<5	<3	<3	<5	<5	3.151	2.004
	714.62	ND	11.66	702.96	08/19/20	16	113	0.17	0.282	<10	<0.25	<5	<5	<3	0.245	<5	<5	2.365	1.703
	714.62	ND	11.98	702.64	03/03/21	10	86	0.269	1.27	<10	<5	<5	1.5	<3	1.28	<5	<5	2.92	5
	714.62	ND	11.67	702.95	09/15/21	52	73	0.31	0.27	<10	<50	<5	<5	<5	<5	<5	<5	3.34	2.68
	714.62	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.59	703.03	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	12.25	702.37	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.70	702.92	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.08	703.54	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	8.10	706.52	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.27	703.35	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.05	703.57	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-110S TOS(bgs): 9 BOS(bgs): 14 GE: 710.57 Finish: stickup Stickup Height: 2.50	713.07	ND	11.83	701.24	07/17/19	0.295	1.72	0.406	1.283	<0.01	<0.02	0.497	0.543	<0.003	<0.003	<0.005	<0.005	5	2.37
	713.07	ND	11.45	701.62	02/27/20	0.518	2	0.312	0.862	<5	<500	<5	0.835	<3	0.242	<5	<5	3.037	1.879
	713.07	ND	12.18	700.89	08/19/20	0.616	1.261	0.393	0.458	<10	<50	<5	<5	0.904	<0.003	<5	<5	3.312	1.381
	713.07	ND	12.04	701.03	03/03/21	1.03	2	0.194	0.261	<10	<10	1.56	4.08	<3	0.375	<5	<5	22	25
	713.07	ND	12.36	700.71	09/15/21	1.06	1.85	0.26	13	<10	<50	0.59	1.86	<3	0.39	<5	<5	8	4.69
	713.07	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	713.07	ND	12.02	701.05	03/16/22	1.91	9	<10	<10	0.216	2.794	<0.005	1.805	<3	0.99	<5	<5	6	8
	713.07	ND	12.76	700.31	09/13/22	0.968	2	<10	<10	1.952	1.516	0.626	0.914	<3	<3	<5	<5	1.812	1.038
	713.07	ND	11.73	701.34	03/21/23	1.18	2	<10	<10	0.39	1.33	1.81	4.11	<3	0.743	<5	<5	26	28
	713.07	ND	11.54	701.53	09/14/23	3	6	<10	<10	0.107	1.803	0.51	1.899	<3	0.729	<5	<5	0.939	2.266
	713.07	ND	11.17	701.90	03/27/24	2	3	<5	<5	<20	<250	<5	1.039	<3	<3	<5	<5	<5	<5
	713.07	ND	12.88	700.19	09/17/24	<2	<2	<10	<250	<5	<5	<5	<5	<3	<3	<5	<5	<5	<5
	713.07	ND	11.07	702.00	03/18/25	3	3	<5	3.09	<10	<10	<5	2.26	0.768	<3	<5	<5	<5	<5
MW-111S TOS(bgs): 9 BOS(bgs): 14 GE: 717.03 Finish: stickup Stickup Height: 2.50	719.53	ND	12.88	706.65	07/17/19	0.535	0.942	5	6	<0.01	<0.01	0.752	0.938	<0.003	0.214	<0.005	<0.005	5	3.3
	719.53	ND	12.65	706.88	02/27/20	<2	0.998	6	6	<5	<500	0.501	0.694	<3	0.339	<5	<5	6	1.594
	719.53	ND	13.54	705.99	08/19/20	0.589	0.676	5	7	<10	<10	<5	0.392	<3	<3	<5	<5	3.689	1.424
	719.53	ND	14.55	704.98	03/03/21	0.636	0.727	2.01	6	<10	<10	0.682	1.01	<3	0.223	<5	<5	4.98	1.35
	719.53	ND	13.63	705.90	09/16/21	<2	1.77	1.98	15	<10	<10	1.44	1.06	<3	0.38	<5	3.15	3.47	2.5
	719.53	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.01	705.52	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.59	704.94	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.07	706.46	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.17	706.36	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.25	705.28	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
Groundwater Analytical Results
RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-112S TOS(bgs): 15 BOS(bgs): 20 GE: 720.50 Finish: flushmount TOC Depth: -0.50	720.00	ND	14.43	705.57	07/16/19	15	68	0.512	0.495	<0.01	<0.02	1.826	0.458	0.263	0.274	<0.005	<0.005	20	2
	Dupe 1 (MW-112S)				07/16/19	15	63	0.343	0.365	<0.01	<0.02	<0.005	1.106	<0.003	<0.003	<0.005	<0.005	3.34	2.32
	720.00	ND	14.59	705.41	02/27/20	13	41	0.214	0.349	4	<500	<5	<5	<3	<3	<5	<5	2.665	1.588
	Dupe 1 (MW-112S)				02/27/20	13	43	0.39	0.356	<5	<500	0.391	<5	0.584	<3	<5	<5	6	1.221
	720.00	ND	14.95	705.05	08/18/20	18	68	0.389	0.851	<10	<250	<5	<5	<3	<3	<5	<5	2.558	1.471
	Dupe #1 (MW-112S)				08/18/20	19	70	0.281	0.279	<10	<250	<5	<5	<3	<3	<5	<5	2.599	1.117
	720.00	ND	17.02	702.98	03/02/21	33	79	0.242	0.392	<10	<5	<5	<5	<3	<3	<5	<5	2.13	1.61
	Dupe1 (MW-112S)				03/02/21	30	77	0.358	0.487	<10	<50	<5	<5	<3	<3	<5	<5	2.44	1.88
	720.00	ND	15.15	704.85	09/15/21	40	71	0.34	0.42	<10	<50	<5	0.49	<3	0.2	<5	<5	6	3.97
	Dupe 1				09/15/21	29	73	0.12	0.33	<10	<50	<5	0.49	<3	<3	<5	<5	4	3.03
	720.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.00	ND	16.35	703.65	03/16/22	32	89	<10	<10	0.38	0.368	<0.005	<0.005	<3	<3	<5	<5	1.144	1.89
	720.00	ND	16.70	703.30	09/13/22	45	97	<10	<10	0.728	8	<5	<5	<3	<3	<5	<5	<5	<5
	720.00	ND	16.80	703.20	03/21/23	15	40	<10	<10	0.401	0.42	<5	<5	<3	<3	<5	<5	1.36	1.82
	720.00	ND	14.27	705.73	09/14/23	34	86	<10	<10	0.208	0.707	<5	<5	<3	0.204	<5	<5	<5	14
	720.00	ND	15.19	704.81	03/27/24	23	64	<5	<5	<10	<50	<5	6	<3	<3	<5	<5	<5	3.513
	720.00	ND	14.61	705.39	09/17/24	27	71	<10	<250	<5	<5	<5	<5	<3	<3	<5	<5	<5	<5
	720.00	ND	16.04	703.96	03/18/25	15	39	<5	1.064	<10	<10	<5	<5	<3	<3	<5	<5	<5	<5
MW-113S TOS(bgs): 8.5 BOS(bgs): 13.5 GE: 711.50 Finish: stickup Stickup Height: 2.50	714.00	ND	12.31	701.69	07/17/19	1.38	5	1.132	1.634	<0.01	<0.02	1.465	1.144	<0.003	0.195	<0.005	<0.005	6	6
	714.00	ND	12.02	701.98	02/27/20	1.511	3	0.518	6	<5	<250	0.492	0.973	<3	0.4	<5	<5	8	6
	714.00	ND	12.79	701.21	08/19/20	1.145	4	0.283	1.506	<10	<50	<5	<5	<3	<3	<5	<5	2.057	1.634
	714.00	ND	12.94	701.06	03/03/21	2	4	0.39	2.35	<10	<10	0.504	1.02	<3	0.449	3.59	4.45	5	3.34
	714.00	ND	13.01	700.99	09/15/21	1.33	6	0.49	3.92	<10	<50	0.46	2.18	0.25	1.02	2.69	<5	6	9
	714.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.89	701.11	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.60	700.40	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.00	701.00	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.78	701.22	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.21	701.79	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.49	701.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.08	701.92	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a

Groundwater Analytical Results

RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)	
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6	
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400	
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)	
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260	
Sample Location TOS & BOS = Top & Bottom -of-Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date															
MW-114S TOS(bgs): 7 BOS(bgs): 12 GE: 712.33 Finish: stickup Stickup Height: -0.59	711.74	ND	8.36	703.38	07/17/19	16	101	0.171	0.371	<0.01	<0.02	0.879	1.317	<0.003	0.385	<0.005	<0.005	13	12	
	Dupe 2 (MW-114S)					07/17/19	18	95	0.329	0.369	<0.01	<0.02	0.707	1.541	<0.003	0.615	<0.005	<0.005	4.37	10
	711.74	ND	8.11	703.63	02/27/20	25	62	13	0.97	<5	<500	0.751	6	<3	4	<5	<5	27	44	
	Dupe 2 (MW-114S)					02/27/20	24	69	<5	1.084	<5	<500	0.611	6	<3	4	<5	<5	29	43
	711.74	ND	8.82	702.92	08/19/20	20	119	0.235	0.457	<10	<50	1.604	1.803	0.369	1.289	<5	<5	8	15	
	Dupe #2 (MW-114S)					08/19/20	21	114	0.138	0.428	<10	<50	53	1.587	<3	1.194	<5	<5	7	16
	711.74	ND	9.12	702.62	03/03/21	18	55	0.267	0.681	<10	<20	0.461	2.64	<3	1.51	<5	<5	6	10	
	Dupe-2 (MW-114S)					03/03/21	20	53	0.236	0.361	<10	<20	<5	1.55	0.278	0.947	<5	<5	5	9
	711.74	ND	8.82	702.92	09/15/21	56	166	0.22	1	<10	<50	<5	1.5	<3	0.75	<5	<5	4.33	7	
	Dupe 2					09/15/21	61	168	0.21	0.78	<10	<50	<5	1.6	<3	1.17	<5	<5	4.8	6
	711.74	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	711.74	ND	8.72	703.02	03/16/22	13	52	<10	<10	0.215	0.57	<5	3.007	<3	2.466	<5	<5	12	37	
	Dupe1 (MW-114S)					03/16/22	11	49	<10	<10	0.286	0.609	<5	3.227	<3	2.637	<5	<5	13	23
	711.74	ND	9.42	702.32	09/13/22	45	127	<10	<10	0.437	1.219	0.459	8	<3	6	<5	<5	3.777	32	
	Dupe1 (MW-114S)					09/13/22	48	176	<10	<50	0.254	3.597	0.529	22	<3	17	<5	<5	3.372	100
	711.74	ND	8.84	702.90	03/21/23	18	34	<10	<10	0.182	0.514	0.379	1.56	<3	0.213	<5	<5	4.82	8	
	Dupe1 (MW-114S)					03/21/23	15	27	<10	<10	0.139	0.496	2.29	1	<3	0.38	<5	<5	12	8
	711.74	ND	7.98	703.76	09/14/23	8	58	<10	<10	0.173	0.646	0.576	2.507	<3	1.477	<5	<5	14	30	
	Dupe1 (MW-114S)					09/14/23	9	57	<10	<10	<5	0.624	0.767	2.374	<4	1.459	<5	<5	15	27
	711.74	ND	10.89	700.85	03/27/24	10	16	<5	<5	<10	<10	<5	1.073	0.74	<3	<5	<5	15	16	
	Dup1 (MW-114S)					03/27/24	11	16	<5	<5	<10	<10	<5	1.186	<3	<3	<5	<5	12	15
	711.74	ND	8.45	703.29	09/17/24	20	35	<10	<50	<5	<5	<5	1.179	<3	0.558	<5	<5	12	19	
	Dup1 (MW-114S)					09/17/24	20	36	<10	<50	<5	<5	4.631	1.051	<3	0.525	<5	<5	15	20
	711.74	ND	8.06	703.68	03/18/25	17	244	1.162	20	<10	<10	0.852	76	<3	54	<5	<5	8	139	
MW-115S TOS(bgs): 7 BOS(bgs): 12 GE: 711.92 Finish: Stickup Stickup Height: 3.06	714.98	ND	11.35	703.63	11/18/21	0.01	41	<10	<50	0.136	0.75	0.468	1.11	<3	<3	<5	<5	3.37	7	
	714.98	ND	11.89	703.09	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	12.43	702.55	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.94	703.04	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.23	703.75	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.10	703.88	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.47	703.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.09	703.89	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 1a
 Groundwater Analytical Results
 RACER 12990 Flint West, Glenwood Avenue and Stevenson Street, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						Arsenic, Dissolved	Arsenic (B)	Chromium, Total, Dissolved	Chromium, Total	Chromium, VI, Dissolved	Chromium, VI	Copper, Dissolved	Copper (B)	Lead, Dissolved	Lead (B)	Selenium, Dissolved	Selenium (B)	Zinc, Dissolved	Zinc (B)
Chemical Abstract Service Number						7440-38-2	7440-38-2	7440-47-3	7440-47-3	18540-29-9	18540-29-9	7440-50-8	7440-50-8	7439-92-1	7439-92-1	7782-49-2	7782-49-2	7440-66-6	7440-66-6
Drinking Water - Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	2,400	2,400
Drinking Water - Non-Res						10 (A)	10 (A)	100 (A)	100 (A)	100 (A)	100 (A)	1,000 (E)	1,000 (E)	4 (L)	4 (L)	50 (A)	50 (A)	5,000 (E)	5,000 (E)
Groundwater Surface Water Interface						10	10	160	160	11	11	20	20	44	44	5	5	260	260
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date														
MW-116S TOS(bgs): 14 BOS(bgs): 19 GE: 719.95 Finish: Stickup Stickup Height: 3.02	722.97	ND	19.99	702.98	11/18/21	0.005	23	<10	<50	1.22	0.174	<5	0.638	<3	0.204	<5	<5	4.1	4.88
	Dupe1 (MW-116S)				11/18/21	0.005	22	<10	<25	0.154	0.336	<5	0.653	<300	<3	<5	<5	9	9
	722.97	ND	20.87	702.10	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.15	701.82	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.25	701.72	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	20.94	702.03	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.89	703.08	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.88	703.09	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.09	701.88	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-117S TOS(bgs): 9 BOS(bgs): 14 GE: 717.15 Finish: Stickup Stickup Height: 3.09	720.24	ND	14.87	705.37	11/18/21	0.00059	0.314	<10	<10	0.266	0.299	1.2	1.26	<3	<3	<5	<5	6	10
	720.24	ND	15.40	704.84	03/16/22	1.131	0.597	<10	<10	0.417	12	1.321	2.285	<3	<3	<5	<5	1.719	2.169
	720.24	ND	15.62	704.62	09/13/22	0.716	2	<10	<10	0.285	45	3.762	3.6	<3	0.407	<5	<5	2.006	1.893
	720.24	ND	15.20	705.04	03/21/23	0.941	1.06	<10	<10	1.27	49	1.13	2.16	<3	<3	<5	<5	1.24	1.65
	720.24	ND	14.59	705.65	09/14/23	1.618	2	<10	<10	0.45	1610	0.752	67	<3	0.753	<5	<5	<5	2.789
	720.24	ND	14.68	705.56	03/28/24	<2	<2	<5	22	<10	<10	0.932	1.674	<3	<3	<5	<5	<5	<5
	720.24	ND	14.97	705.27	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.24	ND	15.28	704.96	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Results in micrograms per liter (ug/L).
 Only compounds detected are included on this summary table. See
 laboratory report for additional compounds analyzed.
 Footnotes are presented behind the analytical summary tables.

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-100S TOS(bgs): 5 BOS(bgs): 15 GE: 720.56 Finish: stickup Stickup Height: 2.50	723.06	ND	14.97	708.09	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	15.26	707.80	02/25/20	<20	<9.8	<9.8	2.7	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	20	7	12
	723.06	ND	16.07	706.99	08/18/20	<9.8	<3.9	<2.0	1.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	18	9	9
	723.06	ND	17.48	705.58	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	16.40	706.66	09/14/21	<9.8	1.1	<2.0	1.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	9	6	4
	723.06	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.63	705.43	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.42	705.64	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.62	705.44	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	17.40	705.66	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	16.35	706.71	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	ND	15.94	707.12	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.06	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-101S TOS(bgs): 9 BOS(bgs): 19 GE: 719.58 Finish: stickup Stickup Height: 2.50 well destroyed well destroyed well destroyed well destroyed Abandoned 3/18/25	722.08	ND	15.84	706.24	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	16.00	706.08	02/25/20	<21	<10	1.7	2.3	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	8	12
	722.08	ND	17.00	705.08	08/18/20	<9.7	1.9	<1.9	1.9	<1.9	<1.9	3.2	1.9	1.6	<1.9	<1.9	<1.9	<3.9	30	12	18
	722.08	ND	18.58	703.50	03/03/21	<10	<4.1	<2.1	1.9	<2.1	<2.1	2.5	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	25	10	15
	722.08	ND	17.59	704.49	09/14/21	<9.7	2.6	2.1	<1.9	<1.9	<1.9	5.5	<1.9	<1.9	<1.9	<1.9	<1.9	<3.9	37	23	13
	722.08	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	15.96	706.12	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	ND	16.56	705.52	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.08	NG	NG	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-102S TOS(bgs): 9 BOS(bgs): 19 GE: 720.28 Finish: stickup Stickup Height: 2.50	722.78	ND	15.58	707.20	07/17/19	<19	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	11	<9.7	<9.7
	722.78	ND	15.61	707.17	02/25/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.13	706.65	08/18/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.07	705.71	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.48	706.30	09/14/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	16.81	705.97	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.36	705.42	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.39	705.39	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	17.23	705.55	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.78	707.00	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	ND	15.88	706.90	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.78	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-103S TOS(bgs): 9 BOS(bgs): 19 GE: 717.16 Finish: stickup Stickup Height: 2.50	719.66	ND	13.71	705.95	07/17/19	<19	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	93	44	48
	719.66	ND	13.58	706.08	02/28/20	<19	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	2.7	3.0	<9.5	<9.5	<9.5	<9.5	84	47	35
	719.66	ND	14.22	705.44	08/19/20	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	2.2	<2.0	<2.0	<2.0	<4.0	120	81	40
	719.66	ND	15.05	704.61	03/03/21	<28	<4.3	<2.2	1.6	<2.2	<2.2	<2.2	5.9	3.4	2.6	<2.2	<2.2	<5.4	91	65	26
	719.66	ND	14.31	705.35	09/16/21	<16	<3.9	<2.0	<2.0	<2.0	<2.0	2.7	5.0	3.1	<2.0	<2.0	<2.0	<3.9	46	24	20
	719.66	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.66	14.68	14.86	704.80	03/16/22	<39	<3.9	<2.0	1.6	<2.0	<2.0	2.6	2.1	2.1	<2.0	<2.0	<2.0	<3.9	74	47	25
	719.66	ND	15.05	704.61	09/13/22	<190	<3.8	<5.7	<1.9	<1.9	<1.9	2.5	<1.9	<1.9	<1.9	<1.9	<1.9	5.1	73	49	20
	719.66	ND	15.00	704.66	03/21/23	<19	<3.8	<1.9	1.7	2.0	<1.9	<1.9	2.6	2.0	<1.9	<1.9	<1.9	<3.8	10	6	4
	719.66	ND	13.22	706.44	09/14/23	<26	<3.9	<2.0	<2.0	1.9	<2.0	3.7	2.9	2.7	<2.0	<2.0	<2.0	<3.9	58	34	22
	719.66	ND	13.69	705.97	03/28/24	<33	<3.8	<2.7	<1.9	<1.9	<1.9	2.7	<1.9	<1.9	<1.9	<1.9	<1.9	<3.8	63	42	20
	719.66	ND	13.87	705.79	09/17/24	<22	<4.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	92	59	31
	719.66	ND	15.01	704.65	03/18/25	<11	<4.2	<2.1	0.9	<2.1	<2.1	1.0	2.1	2.1	<2.1	<2.1	<2.1	<4.2	21	12	8

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-104S TOS(bgs): 13 BOS(bgs): 18 GE: 721.53 Finish: flushmount TOC Depth: -0.50	721.03	ND	13.68	707.35	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	13.79	707.24	02/25/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	14.22	706.81	08/18/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	9.12	711.91	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.21	705.82	09/14/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.47	705.56	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	15.21	705.82	09/13/22	<9.5	<3.8	<1.9	1.6	<1.9	<1.9	<1.9	1.7	<1.9	<1.9	<1.9	<1.9	<3.8	<1.9	<1.9	<1.9
	721.03	ND	16.25	704.78	03/21/23	<9.8	0.9	0.6	2.0	<2.0	1.0	<2.0	2.2	1.9	<2.0	<2.0	<2.0	<3.9	<2.0	<2.0	<2.0
	721.03	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	ND	14.52	706.51	03/27/24	3.3	<3.9	<2.0	2.5	<2.0	<2.0	1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	<2.0	<2.0	<2.0
	721.03	ND	14.15	706.88	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	721.03	DRY	DRY	--	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-105S TOS(bgs): 13 BOS(bgs): 18 GE: 723.64 Finish: flushmount TOC Depth: -0.50	723.14	ND	12.88	710.26	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	12.89	710.25	02/25/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.32	708.82	08/18/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.33	708.81	03/02/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.34	708.80	09/14/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.15	708.99	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.17	708.97	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.69	708.45	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.08	709.06	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.30	709.84	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	13.43	709.71	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.14	ND	14.03	709.11	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-106SR TOS(bgs): 13 BOS(bgs): 18 GE: 723.86 Finish: flushmount TOC Depth: -0.50	723.36	ND	14.56	708.80	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	14.63	708.73	02/25/20	8.1	<10	3.5	4.5	2.8	<10	8.7	<10	<10	<10	<10	<10	<10	7.3	<10	6
	723.36	ND	14.32	709.04	08/18/20	<10	3.1	3.7	3.2	3.0	<2.0	11	3.1	2.3	<2.0	<2.0	<2.0	<4.0	7.3	<2.0	6
	723.36	DRY	16.47	706.89	03/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	723.36	DRY	15.87	707.49	09/14/21	<9.6	3.3	3.8	3.6	2.1	<1.9	17	2.1	1.6	<1.9	<1.9	2.5	<3.8	18	3	15
	723.36	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.30	707.06	03/16/22	<9.7	1.2	2.0	3.6	2.2	<1.9	15	1.6	<1.9	<1.9	<1.9	<1.9	<3.9	11	3	8
	723.36	ND	15.92	707.44	09/13/22	<9.5	1.8	2.5	4.3	2.1	<1.9	13	1.9	1.6	<1.9	<1.9	<1.9	<3.8	16	4	11
	723.36	ND	17.09	706.27	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	15.11	708.25	09/14/23	<10	1.5	<2.0	2.9	1.8	<2.0	6.1	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	10	3	8
	723.36	ND	15.21	708.15	03/27/24	7.5	2.5	2.4	4.3	1.0	<2.0	5.3	1.3	<2.0	<2.0	<2.0	0.9	<4.0	7	2	4
	723.36	ND	15.85	707.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	723.36	ND	16.06	707.30	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-107S TOS(bgs): 13 BOS(bgs): 18 GE: 723.37 Finish: flushmount TOC Depth: -0.50	722.87	ND	15.35	707.52	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.27	707.60	02/25/20	<19	<9.6	<9.6	1.9	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	14	7	6
	722.87	ND	14.62	708.25	08/18/20	<10	<4.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	24	15	7
	722.87	ND	16.81	706.06	03/02/21	<10	<4.2	<2.1	1.5	<2.1	<2.1	1.9	2.9	2.2	<2.1	<2.1	<2.1	<4.2	16	10	5
	722.87	ND	16.20	706.67	09/15/21	19.0	<3.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<3.9	7	4	3
	722.87	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.61	706.26	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.40	706.47	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	17.21	705.66	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.87	707.00	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.64	707.23	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	15.39	707.48	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.87	ND	16.07	706.80	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-108S TOS(bgs): 11 BOS(bgs): 16 GE: 711.52 Finish: stickup Stickup Height: 2.50	714.02	ND	11.22	702.80	07/17/19	<19	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	11	<9.7	<9.7
	714.02	ND	10.85	703.17	02/25/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	11.97	702.05	08/19/20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	12.34	701.68	03/03/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	12.32	701.70	09/15/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	11.90	702.12	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.02	ND	12.97	701.05	09/13/22	<9.1	<3.6	<1.8	1.5	<1.8	<1.8	<1.8	2.3	1.5	<1.8	<1.8	<1.8	<3.6	9	3	6
	714.02	ND	12.45	701.57	03/21/23	<9.8	<3.9	<2.0	1.1	1.0	<2.0	<2.0	1.6	1.6	<2.0	0.8	<2.0	<3.9	6	2	4
	714.02	ND	10.66	703.36	09/14/23	<22	<4.0	<2.0	<2.0	<2.0	<2.0	3.7	2.8	2.4	<2.0	<2.0	<2.0	<4.0	58	36	21
	714.02	ND	10.71	703.31	03/27/24	<10.0	<4.0	<2.0	1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	3	<2.0	2
	714.02	ND	11.28	702.74	09/17/24	<10	<4.1	<2.1	1.8	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	4	<2.1	2
	714.02	ND	11.09	702.93	03/18/25	<10	<4.1	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	4	<2.0	2
	Dup-1 (MW-108S)			--	03/18/25	<10	<4.1	<2.1	<2.1	<2.1	<2.1	2.0	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	4	<2.1	2
MW-109S TOS(bgs): 9 BOS(bgs): 14 GE: 712.12 Finish: stickup Stickup Height: 2.50	714.62	ND	11.14	703.48	07/17/19	<19	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	28	12	16
	714.62	ND	10.89	703.73	02/27/20	5.5	<9.9	1.4	<9.9	<9.9	<9.9	2.3	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	31	11	19
	714.62	ND	11.66	702.96	08/19/20	<10	3.6	3.2	2.7	1.5	<2.0	3.1	2.5	1.8	<2.0	<2.0	<2.0	<4.0	29	15	13
	714.62	ND	11.98	702.64	03/03/21	<9.7	14.0	7.6	2.2	2.0	<1.9	3.6	1.9	<1.9	<1.9	<1.9	<1.9	<3.9	21	9	12
	714.62	ND	11.67	702.95	09/15/21	<9.8	2.1	<2.0	1.6	<2.0	<2.0	1.9	1.7	<2.0	<2.0	<2.0	<2.0	<3.9	23	12	11
	714.62	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.59	703.03	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	12.25	702.37	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.70	702.92	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.08	703.54	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	8.10	706.52	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.27	703.35	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.62	ND	11.05	703.57	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-110S TOS(bgs): 9 BOS(bgs): 14 GE: 710.57 Finish: stickup Stickup Height: 2.50	713.07	ND	11.83	701.24	07/17/19	20.0	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
	713.07	ND	11.45	701.62	02/27/20	<19	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5
	713.07	ND	12.18	700.89	08/19/20	<10.0	1.1	<2.0	1.9	<2.0	<2.0	2.8	2.0	<2.0	<2.0	<2.0	<2.0	<4.0	6	<2.0	5
	713.07	ND	12.04	701.03	03/03/21	<10.0	<4.0	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
	713.07	ND	12.36	700.71	09/15/21	<10	1.5	<2.1	1.7	<2.1	<2.1	2.7	<2.1	<2.1	<2.1	<2.1	<2.1	<4.2	6	<2.1	5
	713.07	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	713.07	ND	12.02	701.05	03/16/22	<9.8	<3.9	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	<2.0	<2.0	<2.0
	713.07	ND	12.76	700.31	09/13/22	<9.6	<3.8	<1.9	1.7	<1.9	<1.9	2.5	2.5	1.6	<1.9	<1.9	<1.9	<3.8	6	<1.9	5
	713.07	ND	11.73	701.34	03/21/23	<10	<4.1	0.6	2.4	<2.0	1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	<2.0	<2.0	<2.0
	713.07	ND	11.54	701.53	09/14/23	21	1.1	<1.9	5.4	<1.9	<1.9	<1.9	2.4	<1.9	<1.9	<1.9	<1.9	<3.8	<1.9	<1.9	<1.9
	713.07	ND	11.17	701.90	03/27/24	<9.6	<3.8	<1.9	2.0	<1.9	<1.9	0.8	<1.9	<1.9	<1.9	<1.9	<1.9	<3.8	<1.9	<1.9	<1.9
	713.07	ND	12.88	700.19	09/17/24	<11	<4.3	1.8	2.1	<2.2	<2.2	2.7	2.5	1.7	<2.2	<2.2	<2.2	<4.3	6	1	4
	713.07	ND	11.07	702.00	03/18/25	<10	<4.1	<2.1	1.9	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	<2.1	<2.1	<2.1
MW-111S TOS(bgs): 9 BOS(bgs): 14 GE: 717.03 Finish: stickup Stickup Height: 2.50	719.53	ND	12.88	706.65	07/17/19	<19	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	36	16	21
	719.53	ND	12.65	706.88	02/27/20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	32	14	16
	719.53	ND	13.54	705.99	08/19/20	<10	2.4	1.6	1.5	<2.1	<2.1	3.0	1.9	<2.1	<2.1	<2.1	<2.1	<4.1	33	17	15
	719.53	ND	14.55	704.98	03/03/21	<10	4.1	2.3	1.7	<2.1	<2.1	2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	25	13	11
	719.53	ND	13.63	705.90	09/16/21	<9.8	2.9	<2.2	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	11	6	5
	719.53	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.01	705.52	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.59	704.94	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	DRY	DRY	--	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.07	706.46	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	13.17	706.36	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	719.53	ND	14.25	705.28	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-112S TOS(bgs): 15 BOS(bgs): 20 GE: 720.50 Finish: flushmount TOC Depth: -0.50	720.00	ND	14.43	705.57	07/17/19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.00	ND	14.59	705.41	02/27/20	<19	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	22	9	11
	Dupe 1 (MW-112S)			--	02/27/20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	8	9
	720.00	ND	14.95	705.05	08/18/20	<9.9	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	11	5	5
	Dupe #1 (MW-112S)			--	08/18/20	<10	<4.1	<2.1	1.8	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	13	6	6
	720.00	ND	17.02	702.98	03/02/21	<21	<4.1	<2.1	1.7	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	9	4	5
	Dupe1 (MW-112S)			--	03/03/21	<20	<3.9	<2.0	1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	10	4	5
	720.00	ND	15.15	704.85	09/15/21	<10	<4.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	7	4	3
	Dupe1 (MW-112S)			--	09/15/21	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	8	4	4
	720.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.00	ND	16.35	703.65	03/16/22	<31	<4.1	<2.1	1.5	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	10	5	6
	720.00	ND	16.70	703.30	09/13/22	<28	<3.7	<1.8	1.4	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.7	6	3	3
	720.00	ND	16.80	703.20	03/21/23	<9.6	<3.8	<1.9	2.0	1.3	<1.9	2.3	1.3	1.3	<1.9	1.0	<1.9	<3.8	13	6	7
	720.00	ND	14.27	705.73	09/14/23	<31	<3.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<3.9	10	5	5
	720.00	ND	15.19	704.81	03/27/24	<27	<4.1	<2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	7	4	3
	720.00	ND	14.61	705.39	09/17/24	<31	<4.1	<2.1	1.8	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	11	5	5
	720.00	ND	16.04	703.96	03/18/25	<10	<4.1	<2.1	1.5	<2.1	<2.1	1.2	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	10	5	4
MW-113S TOS(bgs): 8.5 BOS(bgs): 13.5 GE: 711.50 Finish: stickup Stickup Height: 2.50	714.00	ND	12.31	701.69	07/17/19	<19	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	20	<9.5	16
	714.00	ND	12.02	701.98	02/27/20	<19	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	6	<9.5	4
	714.00	ND	12.79	701.21	08/19/20	<9.7	1.0	<1.9	1.8	<1.9	<1.9	<1.9	3.1	2.6	<1.9	<1.9	<1.9	<3.9	26	6	19
	714.00	ND	12.94	701.06	03/02/21	<10	<4.0	<2.0	1.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	12	5	7
	714.00	ND	13.01	700.99	09/15/21	<10	<4.1	<2.1	1.6	<2.1	<2.1	1.7	1.8	<2.1	<2.1	<2.1	<2.1	<4.1	23	10	13
	714.00	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.89	701.11	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.60	700.40	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	13.00	701.00	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.78	701.22	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.21	701.79	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.49	701.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.00	ND	12.08	701.92	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b
Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)
RACER 12990 Flint West
Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-114S TOS(bgs): 7 BOS(bgs): 12 GE: 712.33 Finish: stickup Stickup Height: -0.59	711.74	ND	8.36	703.38	07/17/19	<19	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	31	17	15
	711.74	ND	8.11	703.63	02/27/20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	31	15	14
	Dupe 2 (MW-114S)			--	02/27/20	<19	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	35	17	17
	711.74	ND	8.82	702.92	08/19/20	<9.7	1.1	<1.9	1.8	<1.9	<1.9	1.8	2.3	1.6	<1.9	<1.9	<1.9	<3.9	29	18	12
	Dupe #2 (MW-114S)			--	08/19/20	<10	1.1	<2.0	<2.0	<2.0	<2.0	2.1	3.1	2.4	<2.0	<2.0	<2.0	<4.1	36	21	14
	711.74	ND	9.12	702.62	03/03/21	<10	<4.1	1.6	1.8	<2.0	<2.0	<2.0	1.8	<2.0	<2.0	<2.0	<2.0	<4.1	22	12	10
	Dupe-2 (MW-114S)			--	03/03/21	<10	1.6	1.7	1.8	<2.1	<2.1	1.9	1.8	<2.1	<2.1	<2.1	<2.1	<4.1	25	14	10
	711.74	ND	8.82	702.92	09/15/21	<10	<4.0	<2.2	<2.0	<2.0	<2.0	1.7	2.5	1.8	<2.0	<2.0	<2.0	<4.0	21	12	9
	Dupe-2 (MW-114S)			--	09/15/21	<10	<4.1	<2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.1	18	11	7
	711.74	NG	NG	--	11/18/21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	711.74	ND	8.72	703.02	03/16/22	<9.8	<3.9	1.7	1.5	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	16	7	10
	Dupel (MW-114S)			--	03/16/22	<10	<4.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<4.1	13	5	8
	711.74	ND	9.42	702.32	09/13/22	<9.2	<3.7	<1.8	1.7	<1.8	<1.8	2.2	<1.8	<1.8	<1.8	<1.8	<1.8	<3.7	30	18	12
	Dupel (MW-114S)			--	09/13/22	<9.5	<3.8	<1.9	1.5	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<3.8	23	14	9
	711.74	ND	8.84	702.90	03/21/23	<10	3.4	2.0	2.2	1.3	<2.0	2.3	1.5	1.5	<2.0	1.0	<2.0	<4.0	17	9	8
	Dupel (MW-114S)			--	03/21/23	<9.8	3.5	2.0	2.0	1.6	<2.0	2.4	1.3	1.3	<2.0	1.0	<2.0	<3.9	15	8	8
	711.74	ND	7.98	703.76	09/14/23	<9.9	2.6	<2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	14	7	7
	Dupel (MW-114S)			--	09/14/23	<9.9	1.7	<2.0	<2.0	<2.0	<2.0	1.9	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	14	8	7
	711.74	ND	10.89	700.85	03/27/24	4.2	1.8	1.5	1.6	<2.0	<2.0	1.2	<2.0	<2.0	<2.0	<2.0	<2.0	<3.9	13	5	7
	Dupel (MW-114S)			--	03/27/24	4.4	1.4	1.4	1.6	<2.0	<2.0	1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	15	7	7
	711.74	ND	8.45	703.29	09/17/24	<10	<4.0	2.2	1.8	<2.0	<2.0	2.1	1.5	1.5	<2.0	<2.0	<2.0	<4.0	28	14	13
	711.74	ND	8.06	703.68	03/18/25	5.6	1.8	<2.0	1.6	<2.0	<2.0	1.3	1.3	1.1	<2.0	<2.0	<2.0	<4.1	12	4	7
MW-115S TOS(bgs): 7 BOS(bgs): 12 GE: 711.92 Finish: Stickup Stickup Height: 3.06	714.98	ND	11.35	703.63	11/18/21	<41	<4.1	<2.0	2.3	<2.0	<2.0	2.3	2.9	<2.0	<2.0	<2.0	<2.0	2.6	27	18	10
	714.98	ND	11.89	703.09	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	12.43	702.55	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.94	703.04	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.23	703.75	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.10	703.88	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.47	703.51	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	714.98	ND	11.09	703.89	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1b

Groundwater Analytical Results- Per- and Polyfluoroalkyl Substances (PFAS)

RACER 12990 Flint West

Stevenson Street and Glenwood Avenue, Flint, Michigan

EGLE Generic Residential Cleanup Criteria						PFBA	PFPeA	PFHxA	PFBS	PFHpA	PFPeS	PFOA	PFHxS	PFHxS-LN	PFHxS-BR	PFNA	PFHpS	EtFOSAA	PFOS	PFOS-LN	PFOS-BR
Chemical Abstract Service Number						375-22-4	2706-90-3	307-24-4	375-73-5	375-85-9	2706-91-4	335-67-1	355-46-4	355-46-4-LN	355-46-4-BR	375-95-1	375-92-8	2991-50-6	1763-23-1	1763-23-1-LN	1763-23-1-BR
Drinking Water - Res*						NC	NC	400,000	420	NC	NC	4	10	NC	NC	10	NC	NC	4	NC	NC
Groundwater Surface Water Interface						NC	NC	NC	NC	NC	NC	12,000	NC	NC	NC	NC	NC	NC	12	NC	NC
Sample Location TOS & BOS = Top & Bottom -of- Screen (ft bgs) Ground Elevation (GE) (ft)	TOC (feet)	DT NAPL (feet)	DTW (feet)	GW Elev (feet)	Sample Date																
MW-116S TOS(bgs): 14 BOS(bgs): 19 GE: 719.95 Finish: Stickup Stickup Height: 3.02	722.97	ND	19.99	702.98	11/18/21	<57	<3.8	<1.9	<1.9	<1.9	<1.9	2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<3.8	22	15	7
	Dupe1 (MW-116S)			--	11/18/21	<40	<4.0	<2.0	<2.0	<2.0	<2.0	1.8	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	23	14	8
	722.97	ND	20.87	702.10	03/16/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.15	701.82	09/13/22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.25	701.72	03/21/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	20.94	702.03	09/14/23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.89	703.08	03/27/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	19.88	703.09	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	722.97	ND	21.09	701.88	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-117S TOS(bgs): 9 BOS(bgs): 14 GE: 717.15 Finish: Stickup Stickup Height: 3.09	720.24	ND	14.87	705.37	11/18/21	<9.7	<3.9	1.9	1.4	<1.9	<1.9	2.8	<1.9	<1.9	<1.9	<1.9	<1.9	<3.9	3	<1.9	<1.9
	720.24	ND	15.40	704.84	03/16/22	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
	720.24	ND	15.62	704.62	09/13/22	<10	<4.0	<2.0	1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
	720.24	ND	15.20	705.04	03/21/23	3.0	1.0	1.3	1.3	1.4	<2.0	3.2	1.4	<2.0	<2.0	<2.0	<2.0	<4.1	2	<2.0	1
	720.24	ND	14.59	705.65	09/14/23	<10.0	<4.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	3	<2.0	<2.0
	720.24	ND	14.68	705.56	03/28/24	5.8	<4.0	1.3	1.6	<2.0	<2.0	1.2	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	3	<2.0	<2.0
	720.24	ND	14.97	705.27	09/17/24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	720.24	ND	15.28	704.96	03/18/25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Results in micrograms per liter (ng/L).

*- USEPA established drinking water Maximum Contaminant Levels (MCLs) in April 2024 for five PFAS compounds, including PFOA and PFOS. MCLs for drining water are used for comparison.

Only PFAS compound detected above laboratory detection limits are summarized on this table. See laboratory report for other compounds.

Footnotes are presented behind the analytical summary tables.



Analytical Laboratory Report

Report ID: S72498.01(01)
Generated on 03/26/2025

Report to
Attention: Rodney Abke
Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525 FAX:
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John Lavery (johnlavery@meritlabs.com)
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Report Summary
Lab Sample ID(s): S72498.01-S72498.11
Project: RACER Flint West #12990
Collected Date(s): 03/18/2025
Submitted Date/Time: 03/18/2025 16:50
Sampled by: Unknown
P.O. #: PO110793-TASK6

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
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- Sample Summary (Page 5)


Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SM3500-Cr B	Standard Method 3500 Cr B 2020
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003



Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S72498.01	FB-1-20250318	Water	03/18/25 09:21
S72498.02	Trip Blank-20250318	Water	03/18/25 15:54
S72498.03	MW-112S-20250318	Water	03/18/25 10:49
S72498.04	MW-103S-20250318	Water	03/18/25 12:47
S72498.05	MW-MS103S-20250318	Water	03/18/25 12:47
S72498.06	MW-MSD103S-20250318	Water	03/18/25 12:47
S72498.07	MW-108S-20250318	Water	03/18/25 13:41
S72498.08	DUP1-1-20250318	Water	03/18/25 00:01
S72498.09	MW-114S-20250318	Water	03/18/25 14:21
S72498.10	MW-110S-20250318	Water	03/18/25 15:35
S72498.11	EB-1-20250318	Water	03/18/25 15:59



Analytical Laboratory Report

Lab Sample ID: S72498.01

Sample Tag: FB-1-20250318

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:30, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:15, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	Not detected	0.002	0.000580	mg/L	2	7440-38-2	
Chromium	Not detected	0.005	0.000300	mg/L	2	7440-47-3	
Copper	Not detected	0.005	0.000320	mg/L	2	7440-50-8	
Lead	Not detected	0.003	0.000180	mg/L	2	7439-92-1	
Selenium	Not detected	0.005	0.00174	mg/L	2	7782-49-2	
Zinc	Not detected	0.005	0.00130	mg/L	2	7440-66-6	

Method: E200.8, Run Date: 03/21/25 12:16, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	Not detected	0.002	0.000580	mg/L	2	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000300	mg/L	2	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000320	mg/L	2	7440-50-8	f
Lead, Dissolved	Not detected	0.003	0.000180	mg/L	2	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00174	mg/L	2	7782-49-2	f
Zinc, Dissolved	Not detected	0.005	0.00130	mg/L	2	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 15:37, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	

f-Filtered and preserved in lab

c-Filtered in lab



Analytical Laboratory Report

Lab Sample ID: S72498.01 (continued)

Sample Tag: FB-1-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 15:37, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	Not detected	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	



Analytical Laboratory Report

Lab Sample ID: S72498.01 (continued)
Sample Tag: FB-1-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 15:37, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.02
Sample Tag: Trip Blank-20250318
Collected Date/Time: 03/18/2025 15:54
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:01, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	Not detected	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.02 (continued)
Sample Tag: Trip Blank-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:01, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.03

Sample Tag: MW-112S-20250318

Collected Date/Time: 03/18/2025 10:49

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:35, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:22, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.039	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.001064	0.005	0.000750	mg/L	5	7440-47-3	b
Copper	Not detected	0.005	0.000800	mg/L	5	7440-50-8	
Lead	Not detected	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	Not detected	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 12:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.015	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	Not detected	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:48, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.03 (continued)

Sample Tag: MW-112S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:48, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	0.37	1	0.14	ug/L	1	75-34-3	J
cis-1,2-Dichloroethene	0.76	1	0.15	ug/L	1	156-59-2	J
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	1	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.03 (continued)
Sample Tag: MW-112S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:48, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.04

Sample Tag: MW-103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:40, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	c
Chromium VI*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:45, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.018	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.000899	0.005	0.000750	mg/L	5	7440-47-3	b
Copper	Not detected	0.005	0.000800	mg/L	5	7440-50-8	
Lead	Not detected	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	Not detected	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 13:06, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.007	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	Not detected	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:12, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.04 (continued)

Sample Tag: MW-103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:12, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	0.31	1	0.14	ug/L	1	71-43-2	J
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	Not detected	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	0.13	1	0.13	ug/L	1	108-88-3	J
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	2	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.04 (continued)
Sample Tag: MW-103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:12, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.05

Sample Tag: MW-MS103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:45, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	c
Chromium VI*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.276	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.257	0.005	0.000750	mg/L	5	7440-47-3	
Copper	0.243	0.005	0.000800	mg/L	5	7440-50-8	
Lead	0.240	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	0.255	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	0.254	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 13:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.262	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	0.272	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	0.253	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	0.242	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	0.247	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	0.255	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 21:57, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	51	10	0.33	ug/L	1	60-29-7	1
Acetone	48.9	50	8.9	ug/L	1	67-64-1	1J
Methyl iodide	50	1	0.25	ug/L	1	74-88-4	1
Carbon disulfide	50	5	0.57	ug/L	1	75-15-0	1

f-Filtered and preserved in lab

c-Filtered in lab

1-Spiked at 50 ug/L

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.05 (continued)

Sample Tag: MW-MS103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 21:57, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
tert-Methyl butyl ether (MTBE)	48	5	0.12	ug/L	1	1634-04-4	1
Acrylonitrile	51	2	0.48	ug/L	1	107-13-1	1
2-Butanone (MEK)	46	25	4.7	ug/L	1	78-93-3	1
Dichlorodifluoromethane	42	5	0.35	ug/L	1	75-71-8	1
Chloromethane	49	5	0.78	ug/L	1	74-87-3	1
Vinyl chloride	50	1	0.22	ug/L	1	75-01-4	1
Bromomethane	50	5	0.24	ug/L	1	74-83-9	1
Chloroethane	51	5	0.37	ug/L	1	75-00-3	1
Trichlorofluoromethane	50	1	0.21	ug/L	1	75-69-4	1
1,1-Dichloroethene	52	1	0.28	ug/L	1	75-35-4	1
Methylene chloride	50	5	0.24	ug/L	1	75-09-2	1
trans-1,2-Dichloroethene	52	1	0.17	ug/L	1	156-60-5	1
1,1-Dichloroethane	52	1	0.14	ug/L	1	75-34-3	1
cis-1,2-Dichloroethene	51	1	0.15	ug/L	1	156-59-2	1
Tetrahydrofuran	48.6	90	4.2	ug/L	1	109-99-9	1J
Chloroform	51	1	0.13	ug/L	1	67-66-3	1
Bromochloromethane	49	1	0.17	ug/L	1	74-97-5	1
1,1,1-Trichloroethane	52	1	0.21	ug/L	1	71-55-6	1
4-Methyl-2-pentanone (MIBK)	51	50	0.35	ug/L	1	108-10-1	1
2-Hexanone	50	50	0.61	ug/L	1	591-78-6	1
Carbon tetrachloride	54	1	0.17	ug/L	1	56-23-5	1
Benzene	53	1	0.14	ug/L	1	71-43-2	1
1,2-Dichloroethane	52	1	0.12	ug/L	1	107-06-2	1
Trichloroethene	52	1	0.14	ug/L	1	79-01-6	1
1,2-Dichloropropane	53	1	0.16	ug/L	1	78-87-5	1
Bromodichloromethane	53	1	0.29	ug/L	1	75-27-4	1
Dibromomethane	51	5	0.16	ug/L	1	74-95-3	1
cis-1,3-Dichloropropene	52	1	0.19	ug/L	1	10061-01-5	1
Toluene	53	1	0.13	ug/L	1	108-88-3	1
trans-1,3-Dichloropropene	52	1	0.19	ug/L	1	10061-02-6	1
1,1,2-Trichloroethane	52	1	0.21	ug/L	1	79-00-5	1
Tetrachloroethene	52	1	0.19	ug/L	1	127-18-4	1
trans-1,4-Dichloro-2-butene	41	1	0.49	ug/L	1	110-57-6	1
Dibromochloromethane	53	5	0.22	ug/L	1	124-48-1	1
1,2-Dibromoethane	53	1	0.20	ug/L	1	106-93-4	1
Chlorobenzene	55	1	0.13	ug/L	1	108-90-7	1
1,1,1,2-Tetrachloroethane	54	1	0.17	ug/L	1	630-20-6	1
Ethylbenzene	54	1	0.15	ug/L	1	100-41-4	1
p,m-Xylene	108	2	0.33	ug/L	1		1
o-Xylene	54	1	0.19	ug/L	1	95-47-6	1
Styrene	54	1	0.16	ug/L	1	100-42-5	1
Isopropylbenzene	54	5	0.17	ug/L	1	98-82-8	1
Bromoform	50	1	0.17	ug/L	1	75-25-2	1
1,1,2,2-Tetrachloroethane	53	1	0.22	ug/L	1	79-34-5	1
1,2,3-Trichloropropane	53	1	0.30	ug/L	1	96-18-4	1
n-Propylbenzene	53	1	0.22	ug/L	1	103-65-1	1
Bromobenzene	52	1	0.19	ug/L	1	108-86-1	1
1,3,5-Trimethylbenzene	53	1	0.22	ug/L	1	108-67-8	1

1-Spiked at 50 ug/L

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.05 (continued)
Sample Tag: MW-MS103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 21:57, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
tert-Butylbenzene	53	1	0.23	ug/L	1	98-06-6	1
1,2,4-Trimethylbenzene	53	1	0.26	ug/L	1	95-63-6	1
sec-Butylbenzene	53	1	0.24	ug/L	1	135-98-8	1
p-Isopropyltoluene	53	5	0.24	ug/L	1	99-87-6	1
1,3-Dichlorobenzene	53	1	0.18	ug/L	1	541-73-1	1
1,4-Dichlorobenzene	52	1	0.16	ug/L	1	106-46-7	1
1,2-Dichlorobenzene	52	1	0.13	ug/L	1	95-50-1	1
1,2,3-Trimethylbenzene	50	1	0.16	ug/L	1	526-73-8	1
n-Butylbenzene	52	1	0.49	ug/L	1	104-51-8	1
Hexachloroethane	48	5	0.29	ug/L	1	67-72-1	1
1,2-Dibromo-3-chloropropane	52	5	0.29	ug/L	1	96-12-8	1
1,2,4-Trichlorobenzene	49	5	0.45	ug/L	1	120-82-1	1
1,2,3-Trichlorobenzene	49	5	0.42	ug/L	1	87-61-6	1
Naphthalene	51	5	0.48	ug/L	1	91-20-3	1
2-Methylnaphthalene	47	5	0.87	ug/L	1	91-57-6	1

1-Spiked at 50 ug/L



Analytical Laboratory Report

Lab Sample ID: S72498.06

Sample Tag: MW-MSD103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:50, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	c
Chromium VI*	Not detected	0.02	0.01	mg/L	2.5	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:49, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.287	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.267	0.005	0.000750	mg/L	5	7440-47-3	
Copper	0.250	0.005	0.000800	mg/L	5	7440-50-8	
Lead	0.251	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	0.265	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	0.256	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 13:26, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.269	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	0.281	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	0.260	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	0.243	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	0.251	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	0.258	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 22:21, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	54	10	0.33	ug/L	1	60-29-7	1
Acetone	50.0	50	8.9	ug/L	1	67-64-1	1J
Methyl iodide	51	1	0.25	ug/L	1	74-88-4	1
Carbon disulfide	50	5	0.57	ug/L	1	75-15-0	1

f-Filtered and preserved in lab

c-Filtered in lab

1-Spiked at 50 ug/L

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.06 (continued)

Sample Tag: MW-MSD103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 22:21, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
tert-Methyl butyl ether (MTBE)	49	5	0.12	ug/L	1	1634-04-4	1
Acrylonitrile	52	2	0.48	ug/L	1	107-13-1	1
2-Butanone (MEK)	48	25	4.7	ug/L	1	78-93-3	1
Dichlorodifluoromethane	42	5	0.35	ug/L	1	75-71-8	1
Chloromethane	49	5	0.78	ug/L	1	74-87-3	1
Vinyl chloride	50	1	0.22	ug/L	1	75-01-4	1
Bromomethane	49	5	0.24	ug/L	1	74-83-9	1
Chloroethane	50	5	0.37	ug/L	1	75-00-3	1
Trichlorofluoromethane	48	1	0.21	ug/L	1	75-69-4	1
1,1-Dichloroethene	53	1	0.28	ug/L	1	75-35-4	1
Methylene chloride	51	5	0.24	ug/L	1	75-09-2	1
trans-1,2-Dichloroethene	51	1	0.17	ug/L	1	156-60-5	1
1,1-Dichloroethane	51	1	0.14	ug/L	1	75-34-3	1
cis-1,2-Dichloroethene	51	1	0.15	ug/L	1	156-59-2	1
Tetrahydrofuran	49.0	90	4.2	ug/L	1	109-99-9	1J
Chloroform	51	1	0.13	ug/L	1	67-66-3	1
Bromochloromethane	51	1	0.17	ug/L	1	74-97-5	1
1,1,1-Trichloroethane	52	1	0.21	ug/L	1	71-55-6	1
4-Methyl-2-pentanone (MIBK)	51	50	0.35	ug/L	1	108-10-1	1
2-Hexanone	51	50	0.61	ug/L	1	591-78-6	1
Carbon tetrachloride	53	1	0.17	ug/L	1	56-23-5	1
Benzene	52	1	0.14	ug/L	1	71-43-2	1
1,2-Dichloroethane	52	1	0.12	ug/L	1	107-06-2	1
Trichloroethene	51	1	0.14	ug/L	1	79-01-6	1
1,2-Dichloropropane	53	1	0.16	ug/L	1	78-87-5	1
Bromodichloromethane	53	1	0.29	ug/L	1	75-27-4	1
Dibromomethane	51	5	0.16	ug/L	1	74-95-3	1
cis-1,3-Dichloropropene	51	1	0.19	ug/L	1	10061-01-5	1
Toluene	52	1	0.13	ug/L	1	108-88-3	1
trans-1,3-Dichloropropene	52	1	0.19	ug/L	1	10061-02-6	1
1,1,2-Trichloroethane	52	1	0.21	ug/L	1	79-00-5	1
Tetrachloroethene	50	1	0.19	ug/L	1	127-18-4	1
trans-1,4-Dichloro-2-butene	39	1	0.49	ug/L	1	110-57-6	1
Dibromochloromethane	52	5	0.22	ug/L	1	124-48-1	1
1,2-Dibromoethane	53	1	0.20	ug/L	1	106-93-4	1
Chlorobenzene	53	1	0.13	ug/L	1	108-90-7	1
1,1,1,2-Tetrachloroethane	53	1	0.17	ug/L	1	630-20-6	1
Ethylbenzene	52	1	0.15	ug/L	1	100-41-4	1
p,m-Xylene	103	2	0.33	ug/L	1		1
o-Xylene	52	1	0.19	ug/L	1	95-47-6	1
Styrene	52	1	0.16	ug/L	1	100-42-5	1
Isopropylbenzene	52	5	0.17	ug/L	1	98-82-8	1
Bromoform	50	1	0.17	ug/L	1	75-25-2	1
1,1,2,2-Tetrachloroethane	53	1	0.22	ug/L	1	79-34-5	1
1,2,3-Trichloropropane	52	1	0.30	ug/L	1	96-18-4	1
n-Propylbenzene	51	1	0.22	ug/L	1	103-65-1	1
Bromobenzene	52	1	0.19	ug/L	1	108-86-1	1
1,3,5-Trimethylbenzene	51	1	0.22	ug/L	1	108-67-8	1

1-Spiked at 50 ug/L

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.06 (continued)
Sample Tag: MW-MSD103S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 22:21, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
tert-Butylbenzene	52	1	0.23	ug/L	1	98-06-6	1
1,2,4-Trimethylbenzene	52	1	0.26	ug/L	1	95-63-6	1
sec-Butylbenzene	53	1	0.24	ug/L	1	135-98-8	1
p-Isopropyltoluene	52	5	0.24	ug/L	1	99-87-6	1
1,3-Dichlorobenzene	53	1	0.18	ug/L	1	541-73-1	1
1,4-Dichlorobenzene	52	1	0.16	ug/L	1	106-46-7	1
1,2-Dichlorobenzene	53	1	0.13	ug/L	1	95-50-1	1
1,2,3-Trimethylbenzene	50	1	0.16	ug/L	1	526-73-8	1
n-Butylbenzene	52	1	0.49	ug/L	1	104-51-8	1
Hexachloroethane	48	5	0.29	ug/L	1	67-72-1	1
1,2-Dibromo-3-chloropropane	54	5	0.29	ug/L	1	96-12-8	1
1,2,4-Trichlorobenzene	53	5	0.45	ug/L	1	120-82-1	1
1,2,3-Trichlorobenzene	54	5	0.42	ug/L	1	87-61-6	1
Naphthalene	58	5	0.48	ug/L	1	91-20-3	1
2-Methylnaphthalene	61	5	0.87	ug/L	1	91-57-6	1

1-Spiked at 50 ug/L



Analytical Laboratory Report

Lab Sample ID: S72498.07

Sample Tag: MW-108S-20250318

Collected Date/Time: 03/18/2025 13:41

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 17:55, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c

Metals

Method: E200.8, Run Date: 03/21/25 12:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	Not detected	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.003686	0.005	0.000750	mg/L	5	7440-47-3	b
Copper	0.001149	0.005	0.000800	mg/L	5	7440-50-8	b
Lead	Not detected	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	0.011	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 12:34, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	Not detected	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	0.005	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:36, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.07 (continued)

Sample Tag: MW-108S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:36, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	0.76	1	0.13	ug/L	1	67-66-3	J
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	2	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	Not detected	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.07 (continued)
Sample Tag: MW-108S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 17:36, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.08

Sample Tag: DUP1-1-20250318

Collected Date/Time: 03/18/2025 00:01

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 18:00, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c

Metals

Method: E200.8, Run Date: 03/21/25 12:37, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	Not detected	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.000811	0.005	0.000750	mg/L	5	7440-47-3	b
Copper	0.000935	0.005	0.000800	mg/L	5	7440-50-8	b
Lead	Not detected	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	0.014	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 12:40, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	Not detected	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	Not detected	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	0.005	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:00, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.08 (continued)

Sample Tag: DUP1-1-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:00, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	0.76	1	0.13	ug/L	1	67-66-3	J
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	2	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	0.16	1	0.14	ug/L	1	79-01-6	J
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.08 (continued)

Sample Tag: DUP1-1-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:00, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.09

Sample Tag: MW-114S-20250318

Collected Date/Time: 03/18/2025 14:21

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 18:05, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 12:43, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.244	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.020	0.005	0.000750	mg/L	5	7440-47-3	
Copper	0.076	0.005	0.000800	mg/L	5	7440-50-8	
Lead	0.054	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	0.139	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 12:55, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.017	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	0.001162	0.005	0.000750	mg/L	5	7440-47-3	bf
Copper, Dissolved	0.000852	0.005	0.000800	mg/L	5	7440-50-8	bf
Lead, Dissolved	Not detected	0.003	0.000450	mg/L	5	7439-92-1	f
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	0.008	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:23, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.09 (continued)

Sample Tag: MW-114S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:23, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	2	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	0.62	1	0.28	ug/L	1	75-35-4	J
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	0.43	1	0.17	ug/L	1	156-60-5	J
1,1-Dichloroethane	1	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	38	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	0.72	1	0.21	ug/L	1	71-55-6	J
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	161	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.09 (continued)
Sample Tag: MW-114S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:23, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.10

Sample Tag: MW-110S-20250318

Collected Date/Time: 03/18/2025 15:35

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125mL Plastic	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	f
Metal Digestion	Completed	SW3015A	03/21/25 10:50	CCM	

Inorganics

Method: SM3500-Cr B, Run Date: 03/18/25 18:10, Analyst: JKB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chromium VI, Dissolved*	Not detected	0.01	0.004	mg/L	1	18540-29-9	c
Chromium VI*	Not detected	0.01	0.004	mg/L	1	18540-29-9	

Metals

Method: E200.8, Run Date: 03/21/25 13:00, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.003	0.002	0.00145	mg/L	5	7440-38-2	
Chromium	0.00309	0.005	0.000750	mg/L	5	7440-47-3	b
Copper	0.00226	0.005	0.000800	mg/L	5	7440-50-8	b
Lead	Not detected	0.003	0.000450	mg/L	5	7439-92-1	
Selenium	Not detected	0.005	0.00435	mg/L	5	7782-49-2	
Zinc	Not detected	0.005	0.00325	mg/L	5	7440-66-6	

Method: E200.8, Run Date: 03/21/25 13:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.003	0.002	0.00145	mg/L	5	7440-38-2	f
Chromium, Dissolved	Not detected	0.005	0.000750	mg/L	5	7440-47-3	f
Copper, Dissolved	Not detected	0.005	0.000800	mg/L	5	7440-50-8	f
Lead, Dissolved	0.000768	0.003	0.000450	mg/L	5	7439-92-1	bf
Selenium, Dissolved	Not detected	0.005	0.00435	mg/L	5	7782-49-2	f
Zinc, Dissolved	Not detected	0.005	0.00325	mg/L	5	7440-66-6	f

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:47, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	

f-Filtered and preserved in lab

c-Filtered in lab

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.10 (continued)

Sample Tag: MW-110S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:47, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	0.37	1	0.14	ug/L	1	79-01-6	J
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72498.10 (continued)
Sample Tag: MW-110S-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 18:47, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.11

Sample Tag: EB-1-20250318

Collected Date/Time: 03/18/2025 15:59

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	40ml Glass	HCL	Yes	5.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	03/24/25 12:15	NDK	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:25, Analyst: ACK

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10	0.33	ug/L	1	60-29-7	
Acetone	Not detected	50	8.9	ug/L	1	67-64-1	
Methyl iodide	Not detected	1	0.25	ug/L	1	74-88-4	
Carbon disulfide	Not detected	5	0.57	ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5	0.12	ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2	0.48	ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25	4.7	ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5	0.35	ug/L	1	75-71-8	
Chloromethane	Not detected	5	0.78	ug/L	1	74-87-3	
Vinyl chloride	Not detected	1	0.22	ug/L	1	75-01-4	
Bromomethane	Not detected	5	0.24	ug/L	1	74-83-9	
Chloroethane	Not detected	5	0.37	ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1	0.21	ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1	0.28	ug/L	1	75-35-4	
Methylene chloride	Not detected	5	0.24	ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1	0.17	ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1	0.14	ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1	0.15	ug/L	1	156-59-2	
Tetrahydrofuran	Not detected	90	4.2	ug/L	1	109-99-9	
Chloroform	Not detected	1	0.13	ug/L	1	67-66-3	
Bromochloromethane	Not detected	1	0.17	ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1	0.21	ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50	0.35	ug/L	1	108-10-1	
2-Hexanone	Not detected	50	0.61	ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1	0.17	ug/L	1	56-23-5	
Benzene	Not detected	1	0.14	ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1	0.12	ug/L	1	107-06-2	
Trichloroethene	Not detected	1	0.14	ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1	0.16	ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1	0.29	ug/L	1	75-27-4	
Dibromomethane	Not detected	5	0.16	ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-01-5	
Toluene	Not detected	1	0.13	ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1	0.19	ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1	0.21	ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1	0.19	ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1	0.49	ug/L	1	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S72498.11 (continued)

Sample Tag: EB-1-20250318

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 03/21/25 16:25, Analyst: ACK (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5	0.22	ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1	0.20	ug/L	1	106-93-4	
Chlorobenzene	Not detected	1	0.13	ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1	0.17	ug/L	1	630-20-6	
Ethylbenzene	Not detected	1	0.15	ug/L	1	100-41-4	
p,m-Xylene	Not detected	2	0.33	ug/L	1		
o-Xylene	Not detected	1	0.19	ug/L	1	95-47-6	
Styrene	Not detected	1	0.16	ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5	0.17	ug/L	1	98-82-8	
Bromoform	Not detected	1	0.17	ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1	0.22	ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1	0.30	ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1	0.22	ug/L	1	103-65-1	
Bromobenzene	Not detected	1	0.19	ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1	0.22	ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1	0.23	ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1	0.26	ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1	0.24	ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5	0.24	ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1	0.18	ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1	0.16	ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1	0.13	ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1	0.16	ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1	0.49	ug/L	1	104-51-8	
Hexachloroethane	Not detected	5	0.29	ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5	0.29	ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5	0.45	ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5	0.42	ug/L	1	87-61-6	
Naphthalene	Not detected	5	0.48	ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5	0.87	ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID:S72498

Client:APPLIED (Applied Ecosystems)

Project: RACER Flint West #12990

Submitted:03/18/2025 16:50 Login User: PFD

Attention: Rodney Abke

Address: Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525

FAX:

Email: rabke@appliedecosystems.com

Selection	Description	Note
Sample Receiving		
01.	☒ Yes ☐ No ☐ N/A	Samples are received at 4C +/- 2C Thermometer # IR 5.0
02.	☒ Yes ☐ No ☐ N/A	Received on ice/ cooling process begun
03.	☐ Yes ☒ No ☐ N/A	Samples shipped
04.	☐ Yes ☒ No ☐ N/A	Samples left in 24 hr. drop box
05.	☐ Yes ☐ No ☒ N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	☒ Yes ☐ No ☐ N/A	COC adequately filled out
07.	☒ Yes ☐ No ☐ N/A	COC signed and relinquished to the lab
08.	☒ Yes ☐ No ☐ N/A	Sample tag on bottles match COC
09.	☐ Yes ☒ No ☐ N/A	Subcontracting needed? Subcontacted to:
Preservation		
10.	☒ Yes ☐ No ☐ N/A	Do sample have correct chemical preservation
11.	☒ Yes ☐ No ☐ N/A	Completed pH checks on preserved samples? (no VOAs)
12.	☒ Yes ☐ No ☐ N/A	Did any samples need to be preserved in the lab? Dissolved Metals
Bottle Conditions		
13.	☒ Yes ☐ No ☐ N/A	All bottles intact
14.	☒ Yes ☐ No ☐ N/A	Appropriate analytical bottles are used
15.	☒ Yes ☐ No ☐ N/A	Merit bottles used
16.	☒ Yes ☐ No ☐ N/A	Sufficient sample volume received
17.	☒ Yes ☐ No ☐ N/A	Samples require laboratory filtration Dissolved Metals
18.	☒ Yes ☐ No ☐ N/A	Samples submitted within holding time
19.	☐ Yes ☐ No ☒ N/A	Do water VOC, TOX, DO or Alkalinity bottles contain

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S72498 Submitted: 03/18/2025 16:50

Client: APPLIED (Applied Ecosystems)

Project: RACER Flint West #12990

Initial Preservation Check: 03/18/2025 16:58 PFD

Preservation Recheck (E200.8): N/A

Attention: Rodney Abke

Address: Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525

FAX:

Email: rabke@appliedecosystems.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S72498.01	125ml Plastic HNO3	<2			
S72498.03	125ml Plastic HNO3	<2			
S72498.04	125ml Plastic HNO3	<2			
S72498.05	125ml Plastic HNO3	<2			
S72498.06	125ml Plastic HNO3	<2			
S72498.07	125ml Plastic HNO3	<2			
S72498.08	125ml Plastic HNO3	<2			
S72498.09	125ml Plastic HNO3	<2			
S72498.10	125ml Plastic HNO3	<2			

REPORT TO

CONTACT NAME Rodney Abke			
COMPANY Applied EcoSystems			
ADDRESS G-4300 South Saginaw Street			
CITY Burton			STATE MI ZIP CODE 48529
PHONE NO. 810-715-2525		FAX NO. 810-715-2526	P.O. NO. PO110793**
E-MAIL ADDRESS rabke@appliedecosystems.com			QUOTE NO.

CHAIN OF CUSTODY RECORD

CONTACT NAME Julie McMahan		☐ SAME	
COMPANY Revitalizing Auto Communities Environmental Response (RACER) Trust			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO. 313.486.2908		E-MAIL ADDRESS jmcman@racertrust.org	

INVOICE TO

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME	RACER Flint West #12990	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED	☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED	☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☒ OTHER report to MDLs	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR W=WASTE

Containers & Preservatives

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York☐ Other _____

Special Instructions

* - Metals list includes:

As, Cr-total, CR-Hex, Cu

Pb, Se, Zn

Samples for dissolved

metals analysis were not

field filtered and require

laboratory filtering.

report down to MCLs

******- include Task 6 on bill

RELINQUISHED BY:	<i>Glenn H. Rayner</i>	☒ Sampler	DATE	TIME
SIGNATURE/ORGANIZATION			<i>05/15</i>	
RECEIVED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			<i>3/18/15</i>	<i>16:4</i>
RELINQUISHED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			<i>3/18/15</i>	<i>(6)</i>
RECEIVED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			<i>3/18/15</i>	<i>16:50</i>

RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RECEIVED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S72500.01(01)
Generated on 04/04/2025

Report to
Attention: Rodney Abke
Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525 FAX:
Email: rabke@appliedecosystems.com

Report produced by
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary
Lab Sample ID(s): S72500.01-S72500.11
Project: RACER Flint West #12990
Collected Date(s): 03/18/2025
Submitted Date/Time: 03/18/2025 16:50
Sampled by: Unknown
P.O. #: PO1107493-TASK37

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
ASTMD7979-19M	ASTM Method D7979 - 19 Modified (Isotopic Dilution)

Parameter Summary

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6



Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S72500.01	FB-20250318	Water	03/18/25 09:21
S72500.02	TripBlank-2025018	Water	03/18/25 09:21
S72500.03	MW-112S-20250318	Water	03/18/25 10:49
S72500.04	MW-MS103S-20250318	Water	03/18/25 12:47
S72500.05	MW-108S-20250318	Water	03/18/25 13:41
S72500.06	MW-103S-20250318	Water	03/18/25 12:47
S72500.07	MW-MSD103S-20250318	Water	03/18/25 12:47
S72500.08	DUP1-1-20250318	Water	03/18/25 00:01
S72500.09	MW-114S-20250318	Water	03/18/25 14:21
S72500.10	MW-110S-20250318	Water	03/18/25 15:35
S72500.11	EB-1-20250318	Water	03/18/25 15:54



Analytical Laboratory Report

Lab Sample ID: S72500.01
Sample Tag: FB-20250318
Collected Date/Time: 03/18/2025 09:21
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.95/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 01:36, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.0	ng/L	2.01	375-22-4	
PFPeA*	Not detected	4.0	1.2	ng/L	2.01	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	2.01	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	2.01	307-24-4	
PFBS*	Not detected	2.0	0.60	ng/L	2.01	375-73-5	
PFHpA*	Not detected	2.0	0.80	ng/L	2.01	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	2.01	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.0	ng/L	2.01	27619-97-2	
PFOA*	Not detected	2.0	0.80	ng/L	2.01	335-67-1	
PFHxS*	Not detected	2.0	1.0	ng/L	2.01	355-46-4	
PFHxS-LN*	Not detected	2.0	1.0	ng/L	2.01	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	1.0	ng/L	2.01	355-46-4-BR	
PFNA*	Not detected	2.0	1.0	ng/L	2.01	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	2.01	39108-34-4	
PFHpS*	Not detected	2.0	0.80	ng/L	2.01	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	2.01	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.0	ng/L	2.01	2355-31-9	
EtFOSAA*	Not detected	4.0	1.0	ng/L	2.01	2991-50-6	
PFOS*	Not detected	2.0	0.80	ng/L	2.01	1763-23-1	
PFOS-LN*	Not detected	2.0	0.80	ng/L	2.01	1763-23-1-LN	
PFOS-BR*	Not detected	2.0	0.80	ng/L	2.01	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.80	ng/L	2.01	2058-94-8	
PFNS*	Not detected	2.0	1.0	ng/L	2.01	68259-12-1	
PFDODA*	Not detected	2.0	0.60	ng/L	2.01	307-55-1	
PFDS*	Not detected	2.0	1.0	ng/L	2.01	335-77-3	
PFTTrDA*	Not detected	2.0	0.80	ng/L	2.01	72629-94-8	
FOSA*	Not detected	2.0	0.80	ng/L	2.01	754-91-6	
PFTeDA*	Not detected	4.0	0.60	ng/L	2.01	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.0	ng/L	2.01	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.0	ng/L	2.01	756426-58-1	
ADONA*	Not detected	2.0	0.60	ng/L	2.01	919005-14-4	
HFPO-DA*	Not detected	10	2.0	ng/L	2.01	13252-13-6	



Analytical Laboratory Report

Lab Sample ID: S72500.02

Sample Tag: TripBlank-2025018

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.89/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 01:56, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.0	ng/L	2.03	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.03	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	2.03	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	2.03	307-24-4	
PFBS*	Not detected	2.0	0.61	ng/L	2.03	375-73-5	
PFHpA*	Not detected	2.0	0.81	ng/L	2.03	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	2.03	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.0	ng/L	2.03	27619-97-2	
PFOA*	Not detected	2.0	0.81	ng/L	2.03	335-67-1	
PFHxS*	Not detected	2.0	1.0	ng/L	2.03	355-46-4	
PFHxS-LN*	Not detected	2.0	1.0	ng/L	2.03	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	1.0	ng/L	2.03	355-46-4-BR	
PFNA*	Not detected	2.0	1.0	ng/L	2.03	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	2.03	39108-34-4	
PFHpS*	Not detected	2.0	0.81	ng/L	2.03	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	2.03	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.0	ng/L	2.03	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.03	2991-50-6	
PFOS*	Not detected	2.0	0.81	ng/L	2.03	1763-23-1	
PFOS-LN*	Not detected	2.0	0.81	ng/L	2.03	1763-23-1-LN	
PFOS-BR*	Not detected	2.0	0.81	ng/L	2.03	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.81	ng/L	2.03	2058-94-8	
PFNS*	Not detected	2.0	1.0	ng/L	2.03	68259-12-1	
PFDODA*	Not detected	2.0	0.61	ng/L	2.03	307-55-1	
PFDS*	Not detected	2.0	1.0	ng/L	2.03	335-77-3	
PFTTrDA*	Not detected	2.0	0.81	ng/L	2.03	72629-94-8	
FOSA*	Not detected	2.0	0.81	ng/L	2.03	754-91-6	
PFTeDA*	Not detected	4.1	0.61	ng/L	2.03	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.0	ng/L	2.03	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.0	ng/L	2.03	756426-58-1	
ADONA*	Not detected	2.0	0.61	ng/L	2.03	919005-14-4	
HFPO-DA*	Not detected	10	2.0	ng/L	2.03	13252-13-6	



Analytical Laboratory Report

Lab Sample ID: S72500.03

Sample Tag: MW-112S-20250318

Collected Date/Time: 03/18/2025 10:49

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.36/6.48/10	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 02:16, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.05	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.05	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.05	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.05	307-24-4	
PFBS*	1.5	2.1	0.62	ng/L	2.05	375-73-5	J
PFHpA*	Not detected	2.1	0.82	ng/L	2.05	375-85-9	
PFPeS*	Not detected	2.1	1.8	ng/L	2.05	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.05	27619-97-2	
PFOA*	1.2	2.1	0.82	ng/L	2.05	335-67-1	J
PFHxS*	Not detected	2.1	1.0	ng/L	2.05	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.05	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.05	39108-34-4	
PFHpS*	Not detected	2.1	0.82	ng/L	2.05	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.05	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.05	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.05	2991-50-6	
PFOS*	10	2.1	0.82	ng/L	2.05	1763-23-1	
PFOS-LN*	5.2	2.1	0.82	ng/L	2.05	1763-23-1-LN	
PFOS-BR*	4.0	2.1	0.82	ng/L	2.05	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.82	ng/L	2.05	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.05	68259-12-1	
PFDODA*	Not detected	2.1	0.62	ng/L	2.05	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.05	335-77-3	
PFTTrDA*	Not detected	2.1	0.82	ng/L	2.05	72629-94-8	
FOSA*	Not detected	2.1	0.82	ng/L	2.05	754-91-6	
PFTeDA*	Not detected	4.1	0.62	ng/L	2.05	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.05	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.05	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.05	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.05	13252-13-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72500.04
Sample Tag: MW-MS103S-20250318
Collected Date/Time: 03/18/2025 12:47
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.89/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	
Initial wt. (g) / Final wt. (g) / Volume (ml) (Rep1)	12.45/6.48/12	ASTMD7979-19M	03/25/25 12:00	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/25/25 15:41, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	100	10	2.0	ng/L	2.01	375-22-4	1
PFPeA*	98	4.0	1.2	ng/L	2.01	2706-90-3	1
4:2 FTSA*	110	2.0	0.20	ng/L	2.01	757124-72-4	1
PFHxA*	100	2.0	1.2	ng/L	2.01	307-24-4	1
PFBS*	110	2.0	0.60	ng/L	2.01	375-73-5	1
PFHpA*	100	2.0	0.80	ng/L	2.01	375-85-9	1
PFPeS*	110	2.0	1.8	ng/L	2.01	2706-91-4	1
6:2 FTSA*	87	2.0	1.0	ng/L	2.01	27619-97-2	1
PFOA*	92	2.0	0.80	ng/L	2.01	335-67-1	1
PFHxS*	110	2.0	1.0	ng/L	2.01	355-46-4	1
PFHxS-LN*	90	2.0	1.0	ng/L	2.01	355-46-4-LN	1
PFHxS-BR*	14	2.0	1.0	ng/L	2.01	355-46-4-BR	1
PFNA*	92	2.0	1.0	ng/L	2.01	375-95-1	1
8:2 FTSA*	93	2.0	1.2	ng/L	2.01	39108-34-4	1
PFHpS*	110	2.0	0.80	ng/L	2.01	375-92-8	1
PFDA*	100	2.0	1.2	ng/L	2.01	335-76-2	1
N-MeFOSAA*	93	2.0	1.0	ng/L	2.01	2355-31-9	1
EtFOSAA*	110	4.0	1.0	ng/L	2.01	2991-50-6	1
PFOS*	130	2.0	0.80	ng/L	2.01	1763-23-1	1
PFOS-LN*	85	2.0	0.80	ng/L	2.01	1763-23-1-LN	1
PFOS-BR*	38	2.0	0.80	ng/L	2.01	1763-23-1-BR	1
PFUnDA*	110	2.0	0.80	ng/L	2.01	2058-94-8	1
PFNS*	100	2.0	1.0	ng/L	2.01	68259-12-1	1
PFDODA*	90	2.0	0.60	ng/L	2.01	307-55-1	1
PFDS*	99	2.0	1.0	ng/L	2.01	335-77-3	1
PFTTrDA*	90	2.0	0.80	ng/L	2.01	72629-94-8	1
FOSA*	110	2.0	0.80	ng/L	2.01	754-91-6	1
PFTeDA*	100	4.0	0.60	ng/L	2.01	376-06-7	1
11Cl-PF3OUdS*	100	2.0	1.0	ng/L	2.01	763051-92-9	1
9Cl-PF3ONS*	100	2.0	1.0	ng/L	2.01	756426-58-1	1
ADONA*	99	2.0	0.60	ng/L	2.01	919005-14-4	1
HFPO-DA*	88	10	2.0	ng/L	2.01	13252-13-6	1

1-spiked @ 101 ng/L



Analytical Laboratory Report

Lab Sample ID: S72500.05

Sample Tag: MW-108S-20250318

Collected Date/Time: 03/18/2025 13:41

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.87/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 02:56, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.0	ng/L	2.04	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.04	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	2.04	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	2.04	307-24-4	
PFBS*	Not detected	2.0	0.61	ng/L	2.04	375-73-5	
PFHpA*	Not detected	2.0	0.82	ng/L	2.04	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	2.04	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.0	ng/L	2.04	27619-97-2	
PFOA*	2.3	2.0	0.82	ng/L	2.04	335-67-1	
PFHxS*	Not detected	2.0	1.0	ng/L	2.04	355-46-4	
PFHxS-LN*	Not detected	2.0	1.0	ng/L	2.04	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	1.0	ng/L	2.04	355-46-4-BR	
PFNA*	Not detected	2.0	1.0	ng/L	2.04	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	2.04	39108-34-4	
PFHpS*	Not detected	2.0	0.82	ng/L	2.04	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	2.04	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.0	ng/L	2.04	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.04	2991-50-6	
PFOS*	3.5	2.0	0.82	ng/L	2.04	1763-23-1	
PFOS-LN*	Not detected	2.0	0.82	ng/L	2.04	1763-23-1-LN	
PFOS-BR*	2.4	2.0	0.82	ng/L	2.04	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.82	ng/L	2.04	2058-94-8	
PFNS*	Not detected	2.0	1.0	ng/L	2.04	68259-12-1	
PFDODA*	Not detected	2.0	0.61	ng/L	2.04	307-55-1	
PFDS*	Not detected	2.0	1.0	ng/L	2.04	335-77-3	
PFTTrDA*	Not detected	2.0	0.82	ng/L	2.04	72629-94-8	
FOSA*	Not detected	2.0	0.82	ng/L	2.04	754-91-6	
PFTeDA*	Not detected	4.1	0.61	ng/L	2.04	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.0	ng/L	2.04	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.0	ng/L	2.04	756426-58-1	
ADONA*	Not detected	2.0	0.61	ng/L	2.04	919005-14-4	
HFPO-DA*	Not detected	10	2.0	ng/L	2.04	13252-13-6	



Analytical Laboratory Report

Lab Sample ID: S72500.06
Sample Tag: MW-103S-20250318
Collected Date/Time: 03/18/2025 12:47
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.82/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	
Initial wt. (g) / Final wt. (g) / Volume (ml) (Rep1)	12.19/6.48/12	ASTMD7979-19M	03/25/25 12:00	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/25/25 15:21, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	11	2.1	ng/L	2.1	375-22-4	
PFPeA*	Not detected	4.2	1.3	ng/L	2.1	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.1	757124-72-4	
PFHxA*	Not detected	2.1	1.3	ng/L	2.1	307-24-4	
PFBS*	0.88	2.1	0.63	ng/L	2.1	375-73-5	J
PFHpA*	Not detected	2.1	0.84	ng/L	2.1	375-85-9	
PFPeS*	Not detected	2.1	1.9	ng/L	2.1	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.1	ng/L	2.1	27619-97-2	
PFOA*	1.0	2.1	0.84	ng/L	2.1	335-67-1	J
PFHxS*	2.1	2.1	1.1	ng/L	2.1	355-46-4	
PFHxS-LN*	2.1	2.1	1.1	ng/L	2.1	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.1	ng/L	2.1	355-46-4-BR	
PFNA*	Not detected	2.1	1.1	ng/L	2.1	375-95-1	
8:2 FTSA*	Not detected	2.1	1.3	ng/L	2.1	39108-34-4	
PFHpS*	Not detected	2.1	0.84	ng/L	2.1	375-92-8	
PFDA*	Not detected	2.1	1.3	ng/L	2.1	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.1	ng/L	2.1	2355-31-9	
EtFOSAA*	Not detected	4.2	1.1	ng/L	2.1	2991-50-6	
PFOS*	21	2.1	0.84	ng/L	2.1	1763-23-1	
PFOS-LN*	12	2.1	0.84	ng/L	2.1	1763-23-1-LN	
PFOS-BR*	8.0	2.1	0.84	ng/L	2.1	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.84	ng/L	2.1	2058-94-8	
PFNS*	Not detected	2.1	1.1	ng/L	2.1	68259-12-1	
PFDODA*	Not detected	2.1	0.63	ng/L	2.1	307-55-1	
PFDS*	Not detected	2.1	1.1	ng/L	2.1	335-77-3	
PFTDA*	Not detected	2.1	0.84	ng/L	2.1	72629-94-8	
FOSA*	Not detected	2.1	0.84	ng/L	2.1	754-91-6	
PFTeDA*	Not detected	4.2	0.63	ng/L	2.1	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.1	ng/L	2.1	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.1	ng/L	2.1	756426-58-1	
ADONA*	Not detected	2.1	0.63	ng/L	2.1	919005-14-4	
HFPO-DA*	Not detected	11	2.1	ng/L	2.1	13252-13-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72500.07

Sample Tag: MW-MSD103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.65/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	
Initial wt. (g) / Final wt. (g) / Volume (ml) (Rep1)	12.21/6.48/12	ASTMD7979-19M	03/25/25 12:00	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/25/25 16:01, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	110	10	2.1	ng/L	2.09	375-22-4	1
PFPeA*	110	4.2	1.3	ng/L	2.09	2706-90-3	1
4:2 FTSA*	110	2.1	0.21	ng/L	2.09	757124-72-4	1
PFHxA*	110	2.1	1.3	ng/L	2.09	307-24-4	1
PFBS*	110	2.1	0.63	ng/L	2.09	375-73-5	1
PFHpA*	110	2.1	0.84	ng/L	2.09	375-85-9	1
PFPeS*	100	2.1	1.9	ng/L	2.09	2706-91-4	1
6:2 FTSA*	100	2.1	1.0	ng/L	2.09	27619-97-2	1
PFOA*	120	2.1	0.84	ng/L	2.09	335-67-1	1
PFHxS*	110	2.1	1.0	ng/L	2.09	355-46-4	1
PFHxS-LN*	95	2.1	1.0	ng/L	2.09	355-46-4-LN	1
PFHxS-BR*	18	2.1	1.0	ng/L	2.09	355-46-4-BR	1
PFNA*	97	2.1	1.0	ng/L	2.09	375-95-1	1
8:2 FTSA*	120	2.1	1.3	ng/L	2.09	39108-34-4	1
PFHpS*	120	2.1	0.84	ng/L	2.09	375-92-8	1
PFDA*	120	2.1	1.3	ng/L	2.09	335-76-2	1
N-MeFOSAA*	92	2.1	1.0	ng/L	2.09	2355-31-9	1
EtFOSAA*	110	4.2	1.0	ng/L	2.09	2991-50-6	1
PFOS*	130	2.1	0.84	ng/L	2.09	1763-23-1	1
PFOS-LN*	87	2.1	0.84	ng/L	2.09	1763-23-1-LN	1
PFOS-BR*	41	2.1	0.84	ng/L	2.09	1763-23-1-BR	1
PFUnDA*	110	2.1	0.84	ng/L	2.09	2058-94-8	1
PFNS*	100	2.1	1.0	ng/L	2.09	68259-12-1	1
PFDODA*	99	2.1	0.63	ng/L	2.09	307-55-1	1
PFDS*	100	2.1	1.0	ng/L	2.09	335-77-3	1
PFTTrDA*	97	2.1	0.84	ng/L	2.09	72629-94-8	1
FOSA*	110	2.1	0.84	ng/L	2.09	754-91-6	1
PFTeDA*	120	4.2	0.63	ng/L	2.09	376-06-7	1
11Cl-PF3OUdS*	100	2.1	1.0	ng/L	2.09	763051-92-9	1
9Cl-PF3ONS*	110	2.1	1.0	ng/L	2.09	756426-58-1	1
ADONA*	120	2.1	0.63	ng/L	2.09	919005-14-4	1
HFPO-DA*	100	10	2.1	ng/L	2.09	13252-13-6	1

1-spiked @ 105 ng/L



Analytical Laboratory Report

Lab Sample ID: S72500.08
Sample Tag: DUP1-1-20250318
Collected Date/Time: 03/18/2025 00:01
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.85/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 03:56, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.05	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.05	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.05	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.05	307-24-4	
PFBS*	Not detected	2.1	0.62	ng/L	2.05	375-73-5	
PFHpA*	Not detected	2.1	0.82	ng/L	2.05	375-85-9	
PFPeS*	Not detected	2.1	1.8	ng/L	2.05	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.05	27619-97-2	
PFOA*	2.0	2.1	0.82	ng/L	2.05	335-67-1	J
PFHxS*	Not detected	2.1	1.0	ng/L	2.05	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.05	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.05	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.05	39108-34-4	
PFHpS*	Not detected	2.1	0.82	ng/L	2.05	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.05	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.05	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.05	2991-50-6	
PFOS*	3.5	2.1	0.82	ng/L	2.05	1763-23-1	
PFOS-LN*	Not detected	2.1	0.82	ng/L	2.05	1763-23-1-LN	
PFOS-BR*	2.2	2.1	0.82	ng/L	2.05	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.82	ng/L	2.05	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.05	68259-12-1	
PFDODA*	Not detected	2.1	0.62	ng/L	2.05	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.05	335-77-3	
PFTTrDA*	Not detected	2.1	0.82	ng/L	2.05	72629-94-8	
FOSA*	Not detected	2.1	0.82	ng/L	2.05	754-91-6	
PFTeDA*	Not detected	4.1	0.62	ng/L	2.05	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.05	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.05	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.05	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.05	13252-13-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72500.09
Sample Tag: MW-114S-20250318
Collected Date/Time: 03/18/2025 14:21
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.89/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 04:16, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	5.6	10	2.0	ng/L	2.03	375-22-4	J
PFPeA*	1.8	4.1	1.2	ng/L	2.03	2706-90-3	J
4:2 FTSA*	Not detected	2.0	0.20	ng/L	2.03	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	2.03	307-24-4	
PFBS*	1.6	2.0	0.61	ng/L	2.03	375-73-5	J
PFHpA*	Not detected	2.0	0.81	ng/L	2.03	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	2.03	2706-91-4	
6:2 FTSA*	Not detected	2.0	1.0	ng/L	2.03	27619-97-2	
PFOA*	1.3	2.0	0.81	ng/L	2.03	335-67-1	J
PFHxS*	1.3	2.0	1.0	ng/L	2.03	355-46-4	J
PFHxS-LN*	1.1	2.0	1.0	ng/L	2.03	355-46-4-LN	J
PFHxS-BR*	Not detected	2.0	1.0	ng/L	2.03	355-46-4-BR	
PFNA*	Not detected	2.0	1.0	ng/L	2.03	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	2.03	39108-34-4	
PFHpS*	Not detected	2.0	0.81	ng/L	2.03	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	2.03	335-76-2	
N-MeFOSAA*	Not detected	2.0	1.0	ng/L	2.03	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.03	2991-50-6	
PFOS*	12	2.0	0.81	ng/L	2.03	1763-23-1	
PFOS-LN*	4.4	2.0	0.81	ng/L	2.03	1763-23-1-LN	
PFOS-BR*	7.4	2.0	0.81	ng/L	2.03	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.81	ng/L	2.03	2058-94-8	
PFNS*	Not detected	2.0	1.0	ng/L	2.03	68259-12-1	
PFDODA*	Not detected	2.0	0.61	ng/L	2.03	307-55-1	
PFDS*	Not detected	2.0	1.0	ng/L	2.03	335-77-3	
PFTTrDA*	Not detected	2.0	0.81	ng/L	2.03	72629-94-8	
FOSA*	Not detected	2.0	0.81	ng/L	2.03	754-91-6	
PFTeDA*	Not detected	4.1	0.61	ng/L	2.03	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	1.0	ng/L	2.03	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	1.0	ng/L	2.03	756426-58-1	
ADONA*	Not detected	2.0	0.61	ng/L	2.03	919005-14-4	
HFPO-DA*	Not detected	10	2.0	ng/L	2.03	13252-13-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72500.10
Sample Tag: MW-110S-20250318
Collected Date/Time: 03/18/2025 15:35
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.81/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 04:36, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	10	2.1	ng/L	2.06	375-22-4	
PFPeA*	Not detected	4.1	1.2	ng/L	2.06	2706-90-3	
4:2 FTSA*	Not detected	2.1	0.21	ng/L	2.06	757124-72-4	
PFHxA*	Not detected	2.1	1.2	ng/L	2.06	307-24-4	
PFBS*	1.9	2.1	0.62	ng/L	2.06	375-73-5	J
PFHpA*	Not detected	2.1	0.82	ng/L	2.06	375-85-9	
PFPeS*	Not detected	2.1	1.9	ng/L	2.06	2706-91-4	
6:2 FTSA*	Not detected	2.1	1.0	ng/L	2.06	27619-97-2	
PFOA*	Not detected	2.1	0.82	ng/L	2.06	335-67-1	
PFHxS*	Not detected	2.1	1.0	ng/L	2.06	355-46-4	
PFHxS-LN*	Not detected	2.1	1.0	ng/L	2.06	355-46-4-LN	
PFHxS-BR*	Not detected	2.1	1.0	ng/L	2.06	355-46-4-BR	
PFNA*	Not detected	2.1	1.0	ng/L	2.06	375-95-1	
8:2 FTSA*	Not detected	2.1	1.2	ng/L	2.06	39108-34-4	
PFHpS*	Not detected	2.1	0.82	ng/L	2.06	375-92-8	
PFDA*	Not detected	2.1	1.2	ng/L	2.06	335-76-2	
N-MeFOSAA*	Not detected	2.1	1.0	ng/L	2.06	2355-31-9	
EtFOSAA*	Not detected	4.1	1.0	ng/L	2.06	2991-50-6	
PFOS*	Not detected	2.1	0.82	ng/L	2.06	1763-23-1	
PFOS-LN*	Not detected	2.1	0.82	ng/L	2.06	1763-23-1-LN	
PFOS-BR*	Not detected	2.1	0.82	ng/L	2.06	1763-23-1-BR	
PFUnDA*	Not detected	2.1	0.82	ng/L	2.06	2058-94-8	
PFNS*	Not detected	2.1	1.0	ng/L	2.06	68259-12-1	
PFDODA*	Not detected	2.1	0.62	ng/L	2.06	307-55-1	
PFDS*	Not detected	2.1	1.0	ng/L	2.06	335-77-3	
PFTTrDA*	Not detected	2.1	0.82	ng/L	2.06	72629-94-8	
FOSA*	Not detected	2.1	0.82	ng/L	2.06	754-91-6	
PFTeDA*	Not detected	4.1	0.62	ng/L	2.06	376-06-7	
11Cl-PF3OUdS*	Not detected	2.1	1.0	ng/L	2.06	763051-92-9	
9Cl-PF3ONS*	Not detected	2.1	1.0	ng/L	2.06	756426-58-1	
ADONA*	Not detected	2.1	0.62	ng/L	2.06	919005-14-4	
HFPO-DA*	Not detected	10	2.1	ng/L	2.06	13252-13-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S72500.11
Sample Tag: EB-1-20250318
Collected Date/Time: 03/18/2025 15:54
Matrix: Water
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.10/6.48/11	ASTMD7979-19M	03/20/25 11:30	CED	

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 03/28/25 04:56, Analyst: CED

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	9.8	2.0	ng/L	1.96	375-22-4	
PFPeA*	Not detected	3.9	1.2	ng/L	1.96	2706-90-3	
4:2 FTSA*	Not detected	2.0	0.20	ng/L	1.96	757124-72-4	
PFHxA*	Not detected	2.0	1.2	ng/L	1.96	307-24-4	
PFBS*	Not detected	2.0	0.59	ng/L	1.96	375-73-5	
PFHpA*	Not detected	2.0	0.78	ng/L	1.96	375-85-9	
PFPeS*	Not detected	2.0	1.8	ng/L	1.96	2706-91-4	
6:2 FTSA*	Not detected	2.0	0.98	ng/L	1.96	27619-97-2	
PFOA*	Not detected	2.0	0.78	ng/L	1.96	335-67-1	
PFHxS*	Not detected	2.0	0.98	ng/L	1.96	355-46-4	
PFHxS-LN*	Not detected	2.0	0.98	ng/L	1.96	355-46-4-LN	
PFHxS-BR*	Not detected	2.0	0.98	ng/L	1.96	355-46-4-BR	
PFNA*	Not detected	2.0	0.98	ng/L	1.96	375-95-1	
8:2 FTSA*	Not detected	2.0	1.2	ng/L	1.96	39108-34-4	
PFHpS*	Not detected	2.0	0.78	ng/L	1.96	375-92-8	
PFDA*	Not detected	2.0	1.2	ng/L	1.96	335-76-2	
N-MeFOSAA*	Not detected	2.0	0.98	ng/L	1.96	2355-31-9	
EtFOSAA*	Not detected	3.9	0.98	ng/L	1.96	2991-50-6	
PFOS*	Not detected	2.0	0.78	ng/L	1.96	1763-23-1	
PFOS-LN*	Not detected	2.0	0.78	ng/L	1.96	1763-23-1-LN	
PFOS-BR*	Not detected	2.0	0.78	ng/L	1.96	1763-23-1-BR	
PFUnDA*	Not detected	2.0	0.78	ng/L	1.96	2058-94-8	
PFNS*	Not detected	2.0	0.98	ng/L	1.96	68259-12-1	
PFDODA*	Not detected	2.0	0.59	ng/L	1.96	307-55-1	
PFDS*	Not detected	2.0	0.98	ng/L	1.96	335-77-3	
PFTTrDA*	Not detected	2.0	0.78	ng/L	1.96	72629-94-8	
FOSA*	Not detected	2.0	0.78	ng/L	1.96	754-91-6	
PFTeDA*	Not detected	3.9	0.59	ng/L	1.96	376-06-7	
11Cl-PF3OUdS*	Not detected	2.0	0.98	ng/L	1.96	763051-92-9	
9Cl-PF3ONS*	Not detected	2.0	0.98	ng/L	1.96	756426-58-1	
ADONA*	Not detected	2.0	0.59	ng/L	1.96	919005-14-4	
HFPO-DA*	Not detected	9.8	2.0	ng/L	1.96	13252-13-6	

Merit Laboratories Login Checklist

Lab Set ID:S72500

Client:APPLIED (Applied Ecosystems)

Project: RACER Flint West #12990

Submitted:03/18/2025 16:50 Login User: MAM

Attention: Rodney Abke

Address: Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525

FAX:

Email: rabke@appliedecosystems.com

Selection	Description	Note
Sample Receiving		
01.	☒ Yes ☐ No ☐ N/A	Samples are received at 4C +/- 2C Thermometer # 4.1 IR
02.	☒ Yes ☐ No ☐ N/A	Received on ice/ cooling process begun
03.	☐ Yes ☒ No ☐ N/A	Samples shipped
04.	☐ Yes ☒ No ☐ N/A	Samples left in 24 hr. drop box
05.	☐ Yes ☐ No ☒ N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	☒ Yes ☐ No ☐ N/A	COC adequately filled out
07.	☒ Yes ☐ No ☐ N/A	COC signed and relinquished to the lab
08.	☒ Yes ☐ No ☐ N/A	Sample tag on bottles match COC
09.	☐ Yes ☒ No ☐ N/A	Subcontracting needed? Subcontacted to:
Preservation		
10.	☒ Yes ☐ No ☐ N/A	Do sample have correct chemical preservation
11.	☐ Yes ☐ No ☒ N/A	Completed pH checks on preserved samples? (no VOAs)
12.	☐ Yes ☒ No ☐ N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	☒ Yes ☐ No ☐ N/A	All bottles intact
14.	☒ Yes ☐ No ☐ N/A	Appropriate analytical bottles are used
15.	☒ Yes ☐ No ☐ N/A	Merit bottles used
16.	☒ Yes ☐ No ☐ N/A	Sufficient sample volume received
17.	☐ Yes ☒ No ☐ N/A	Samples require laboratory filtration
18.	☒ Yes ☐ No ☐ N/A	Samples submitted within holding time
19.	☐ Yes ☐ No ☒ N/A	Do water VOC, TOX, DO or Alkalinity bottles contain

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Rodney Abke		
COMPANY Applied EcoSystems		
ADDRESS G-4300 South Saginaw Street		
CITY Burton	STATE MI	ZIP CODE 48529
PHONE NO. 810-715-2525	FAX NO. 810-715-2526	P.O. NO. PO110793**
E-MAIL ADDRESS rabke@appliedecosystems.com		QUOTE NO.

CONTACT NAME Julie McMahan		☐ SAME
COMPANY Revitalizing Auto Communities Environmental Response (RACER) Trust		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE NO. 313-486-2908	E-MAIL ADDRESS jmcmanhan@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME RACER Flint West #12990	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☒ OTHER report to MDLs	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR	W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	PFAS/PFOS *
72500.01	03/18	9:21	FD1-20250318		1	X							X
102	03/18	9:21	Tap Blank - 20250318		2	X							X
103	03/18	10:49	MW-1125-20250318		3	X							X
104	03/18	12:47	MW-105MS1035-20250318		3	X							X
105	03/18	13:41	MW-1085-20250318		3	X							X
106	03/18	12:47	MW-1035-20250318		3	X							X
107	03/18	12:47	MW-MSD1035-20250318		3	X							X
108	03/18	-	DUP1-1-20250318		3	X							X
109	03/18	14:52	MW-1145-20250318		3	X							X
110	03/18	15:55	MW-1105-20250318		3	X							X
111	03/18	15:54	EB-1-20250318		3	X							X

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York
☐ Other

Special Instructions

*- 28 Compound List

report down to MDLs

** - include Task 37 on bill

RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Quality Control Report

Report ID: QC-S72498-01
Generated on 03/26/2025

Report to

Attention: Rodney Abke
Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S72498.01-S72498.11
Project: RACER Flint West #12990
Submitted Date/Time: 03/18/2025 16:50
Sampled by: Unknown
P.O. #: PO110793-TASK6

QC Report Sections

Cover Page (Page 1)
Analysis Summary (Pages 2-12)
Prep Batch Summary (Pages 13-15)
Surrogates per Lab Sample (Pages 16-24)
Surrogates per QC Sample (Page 25)
Batch QC Results (Pages 26-36)

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S72498.01

Sample Tag: FB-1-20250318

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:30	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:30	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:15	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 15:37	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.02
Sample Tag: Trip Blank-20250318
Collected Date/Time: 03/18/2025 15:54
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:01	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.03

Sample Tag: MW-112S-20250318

Collected Date/Time: 03/18/2025 10:49

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:35	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:35	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:22	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:48	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.04

Sample Tag: MW-103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:40	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:40	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:45	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 17:12	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.05

Sample Tag: MW-MS103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:45	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:45	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:47	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 21:57	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.06

Sample Tag: MW-MSD103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:50	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:50	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:49	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 22:21	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.07

Sample Tag: MW-108S-20250318

Collected Date/Time: 03/18/2025 13:41

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:55	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 17:55	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:31	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 17:36	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.08

Sample Tag: DUP1-1-20250318

Collected Date/Time: 03/18/2025 00:01

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:00	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 18:00	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:37	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:00	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.09

Sample Tag: MW-114S-20250318

Collected Date/Time: 03/18/2025 14:21

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:05	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 18:05	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 12:43	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:23	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.10

Sample Tag: MW-110S-20250318

Collected Date/Time: 03/18/2025 15:35

Matrix: Water

COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:10	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Chromium VI	SM3500-Cr B	03/18/25 18:10	CHR250318-W1	CHR250318-W1	No	BLK/LCS/MS/MSD/DU
Metals						
Arsenic, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Chromium	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Copper	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Lead	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	03/21/25 13:00	MT4-25-0321A	MTD-032125-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:47	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72498.11
Sample Tag: EB-1-20250318
Collected Date/Time: 03/18/2025 15:59
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:25	250321A7	VF250321W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: CHR250318-W1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72498.01	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:30	CHR250318-W1
S72498.01	Chromium VI	SM3500-Cr B	03/18/25 17:30	CHR250318-W1
S72498.03	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:35	CHR250318-W1
S72498.03	Chromium VI	SM3500-Cr B	03/18/25 17:35	CHR250318-W1
S72498.04	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:40	CHR250318-W1
S72498.04	Chromium VI	SM3500-Cr B	03/18/25 17:40	CHR250318-W1
S72498.05	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:45	CHR250318-W1
S72498.05	Chromium VI	SM3500-Cr B	03/18/25 17:45	CHR250318-W1
S72498.06	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:50	CHR250318-W1
S72498.06	Chromium VI	SM3500-Cr B	03/18/25 17:50	CHR250318-W1
S72498.07	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 17:55	CHR250318-W1
S72498.07	Chromium VI	SM3500-Cr B	03/18/25 17:55	CHR250318-W1
S72498.08	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:00	CHR250318-W1
S72498.08	Chromium VI	SM3500-Cr B	03/18/25 18:00	CHR250318-W1
S72498.09	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:05	CHR250318-W1
S72498.09	Chromium VI	SM3500-Cr B	03/18/25 18:05	CHR250318-W1
S72498.10	Chromium VI, Dissolved	SM3500-Cr B	03/18/25 18:10	CHR250318-W1
S72498.10	Chromium VI	SM3500-Cr B	03/18/25 18:10	CHR250318-W1

Metals, Prep Batch ID: MTD-032125-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72498.01	Arsenic, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Arsenic	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.01	Chromium, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Chromium	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.01	Copper, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Copper	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.01	Lead, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Lead	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.01	Selenium, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Selenium	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.01	Zinc, Dissolved	E200.8	03/21/25 12:16	MT4-25-0321A
S72498.01	Zinc	E200.8	03/21/25 12:15	MT4-25-0321A
S72498.03	Arsenic, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Arsenic	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.03	Chromium, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Chromium	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.03	Copper, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Copper	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.03	Lead, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Lead	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.03	Selenium, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Selenium	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.03	Zinc, Dissolved	E200.8	03/21/25 12:27	MT4-25-0321A
S72498.03	Zinc	E200.8	03/21/25 12:22	MT4-25-0321A
S72498.04	Arsenic, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Arsenic	E200.8	03/21/25 12:45	MT4-25-0321A
S72498.04	Chromium, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Chromium	E200.8	03/21/25 12:45	MT4-25-0321A

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-032125-1 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72498.04	Copper, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Copper	E200.8	03/21/25 12:45	MT4-25-0321A
S72498.04	Lead, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Lead	E200.8	03/21/25 12:45	MT4-25-0321A
S72498.04	Selenium, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Selenium	E200.8	03/21/25 12:45	MT4-25-0321A
S72498.04	Zinc, Dissolved	E200.8	03/21/25 13:06	MT4-25-0321A
S72498.04	Zinc	E200.8	03/21/25 12:45	MT4-25-0321A
S72498.05	Arsenic, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Arsenic	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.05	Chromium, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Chromium	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.05	Copper, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Copper	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.05	Lead, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Lead	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.05	Selenium, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Selenium	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.05	Zinc, Dissolved	E200.8	03/21/25 13:24	MT4-25-0321A
S72498.05	Zinc	E200.8	03/21/25 12:47	MT4-25-0321A
S72498.06	Arsenic, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Arsenic	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.06	Chromium, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Chromium	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.06	Copper, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Copper	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.06	Lead, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Lead	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.06	Selenium, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Selenium	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.06	Zinc, Dissolved	E200.8	03/21/25 13:26	MT4-25-0321A
S72498.06	Zinc	E200.8	03/21/25 12:49	MT4-25-0321A
S72498.07	Arsenic, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Arsenic	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.07	Chromium, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Chromium	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.07	Copper, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Copper	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.07	Lead, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Lead	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.07	Selenium, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Selenium	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.07	Zinc, Dissolved	E200.8	03/21/25 12:34	MT4-25-0321A
S72498.07	Zinc	E200.8	03/21/25 12:31	MT4-25-0321A
S72498.08	Arsenic, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A
S72498.08	Arsenic	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.08	Chromium, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A
S72498.08	Chromium	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.08	Copper, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-032125-1 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72498.08	Copper	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.08	Lead, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A
S72498.08	Lead	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.08	Selenium, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A
S72498.08	Selenium	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.08	Zinc, Dissolved	E200.8	03/21/25 12:40	MT4-25-0321A
S72498.08	Zinc	E200.8	03/21/25 12:37	MT4-25-0321A
S72498.09	Arsenic, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Arsenic	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.09	Chromium, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Chromium	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.09	Copper, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Copper	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.09	Lead, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Lead	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.09	Selenium, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Selenium	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.09	Zinc, Dissolved	E200.8	03/21/25 12:55	MT4-25-0321A
S72498.09	Zinc	E200.8	03/21/25 12:43	MT4-25-0321A
S72498.10	Arsenic, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Arsenic	E200.8	03/21/25 13:00	MT4-25-0321A
S72498.10	Chromium, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Chromium	E200.8	03/21/25 13:00	MT4-25-0321A
S72498.10	Copper, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Copper	E200.8	03/21/25 13:00	MT4-25-0321A
S72498.10	Lead, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Lead	E200.8	03/21/25 13:00	MT4-25-0321A
S72498.10	Selenium, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Selenium	E200.8	03/21/25 13:00	MT4-25-0321A
S72498.10	Zinc, Dissolved	E200.8	03/21/25 13:03	MT4-25-0321A
S72498.10	Zinc	E200.8	03/21/25 13:00	MT4-25-0321A

Organics - Volatiles, Prep Batch ID: VF250321W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72498.01	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 15:37	250321A7
S72498.02	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:01	250321A7
S72498.03	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:48	250321A7
S72498.04	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 17:12	250321A7
S72498.05	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 21:57	250321A7
S72498.06	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 22:21	250321A7
S72498.07	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 17:36	250321A7
S72498.08	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:00	250321A7
S72498.09	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:23	250321A7
S72498.10	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 18:47	250321A7
S72498.11	Volatile Organics - DEQ List	SW5030C/8260C	03/21/25 16:25	250321A7

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.01

Sample Tag: FB-1-20250318

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 15:37, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.7	80.0	124.0
1,2-Dichloroethane-D4		100.6	72.0	125.0
Toluene-D8		101.0	89.0	112.0

Lab Sample ID: S72498.02
Sample Tag: Trip Blank-20250318
Collected Date/Time: 03/18/2025 15:54
Matrix: Water
COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 16:01, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.4	80.0	124.0
1,2-Dichloroethane-D4		98.8	72.0	125.0
Toluene-D8		99.8	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.03

Sample Tag: MW-112S-20250318

Collected Date/Time: 03/18/2025 10:49

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 16:48, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.1	80.0	124.0
1,2-Dichloroethane-D4		102.1	72.0	125.0
Toluene-D8		101.8	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.04

Sample Tag: MW-103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 17:12, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.2	80.0	124.0
1,2-Dichloroethane-D4		101.7	72.0	125.0
Toluene-D8		101.7	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.07

Sample Tag: MW-108S-20250318

Collected Date/Time: 03/18/2025 13:41

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 17:36, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.4	80.0	124.0
1,2-Dichloroethane-D4		107.3	72.0	125.0
Toluene-D8		101.1	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.08

Sample Tag: DUP1-1-20250318

Collected Date/Time: 03/18/2025 00:01

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 18:00, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.2	80.0	124.0
1,2-Dichloroethane-D4		100.1	72.0	125.0
Toluene-D8		101.0	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.09

Sample Tag: MW-114S-20250318

Collected Date/Time: 03/18/2025 14:21

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 18:23, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.8	80.0	124.0
1,2-Dichloroethane-D4		101.0	72.0	125.0
Toluene-D8		99.8	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.10

Sample Tag: MW-110S-20250318

Collected Date/Time: 03/18/2025 15:35

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 18:47, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.9	80.0	124.0
1,2-Dichloroethane-D4		101.3	72.0	125.0
Toluene-D8		101.1	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S72498.11

Sample Tag: EB-1-20250318

Collected Date/Time: 03/18/2025 15:59

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 250321A7, Run Date: 03/21/2025 16:25, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.0	80.0	124.0
1,2-Dichloroethane-D4		97.7	72.0	125.0
Toluene-D8		99.9	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF250321W1

QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 250321A7.BLKW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 14:26, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.1	80.0	124.0
1,2-Dichloroethane-D4		100.6	72.0	125.0
Toluene-D8		101.0	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 12:51, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.1	80.0	124.0
1,2-Dichloroethane-D4		98.3	72.0	125.0
Toluene-D8		101.1	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 250321A7.LCSDW21A, Parent Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 13:14, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.3	80.0	124.0
1,2-Dichloroethane-D4		101.7	72.0	125.0
Toluene-D8		100.8	89.0	112.0

Matrix Spike (MS)

Lab Sample ID: 250321A7.7249805M, Parent Sample ID: S72498.04

Run in Batch: 250321A7, Run Date: 03/21/2025 21:57, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.1	80.0	124.0
1,2-Dichloroethane-D4		99.4	72.0	125.0
Toluene-D8		101.8	89.0	112.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: 250321A7.7249806N, Parent Sample ID: 250321A7.7249805M

Run in Batch: 250321A7, Run Date: 03/21/2025 22:21, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		98.9	80.0	124.0
1,2-Dichloroethane-D4		97.8	72.0	125.0
Toluene-D8		101.3	89.0	112.0

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CHR250318-W1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)

Lab Sample ID: CHR250318-W1.LRB1

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 15:00, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Chromium VI		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CHR250318-W1.LCS1

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 15:15, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chromium VI		102	90	110

Matrix Spike (MS)

Lab Sample ID: CHR250318-W1.MS1, Parent Sample ID: S72467.01

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 15:30, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chromium VI		96	80	120

Matrix Spike (MS)

Lab Sample ID: CHR250318-W1.MS2, Parent Sample ID: S72498.04

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 17:45, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Chromium VI	*	2	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CHR250318-W1.MSD2, Parent Sample ID: CHR250318-W1.MS2

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 17:50, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium VI	*	5	80	120	61	15

Duplicate (DUP)

Lab Sample ID: CHR250318-W1.DP1, Parent Sample ID: S72467.01

Run in Batch: CHR250318-W1, Run Date: 03/18/2025 15:25, Prep Date: 03/18/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	RPD	RPD CL
Chromium VI		5	15

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-032125-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-25-0321A.019.LRB

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 12:13, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Chromium		ND	0.001	mg/L
Copper		ND	0.001	mg/L
Lead		ND	0.0006	mg/L
Selenium		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-25-0321A.018.LCS

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 12:10, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	85	115
Chromium		103	85	115
Copper		103	85	115
Lead		105	85	115
Selenium		103	85	115
Zinc		101	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-25-0321A.038.MS, Parent Sample ID: S72498.04

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 12:47, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		103	75	125
Chromium		103	75	125
Copper		97	75	125
Lead		96	75	125
Selenium		102	75	125
Zinc		102	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-25-0321A.061.MS, Parent Sample ID: S72498.04

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 13:24, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Chromium		109	75	125
Copper		101	75	125
Zinc		102	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-25-0321A.039.MSD, Parent Sample ID: MT4-25-0321A.038.MS

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 12:49, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		108	75	125	4	20
Chromium		107	75	125	4	20
Copper		100	75	125	3	20
Lead		100	75	125	4	20
Selenium		106	75	125	4	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-032125-1 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: MT4-25-0321A.039.MSD, Parent Sample ID: MT4-25-0321A.038.MS

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 12:49, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Zinc		102	75	125	1	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-25-0321A.062.MSD, Parent Sample ID: MT4-25-0321A.061.MS

Run in Batch: MT4-25-0321A, Run Date: 03/21/2025 13:26, Prep Date: 03/21/2025, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Chromium		112	75	125	3	20
Copper		104	75	125	3	20
Zinc		103	75	125	1	20

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 250321A7.BLKW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 14:26, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	2.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK) (continued)

Lab Sample ID: 250321A7.BLKW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 14:26, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 12:51, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		100.6	67.4	121.2
Acetone		88.5	29.9	161.5
Methyl iodide		98.5	68.8	116.4
Carbon disulfide		99.4	63.8	137.4
tert-Methyl butyl ether (MTBE)		91.3	73.2	122.4
Acrylonitrile		99.3	69.9	128.9
2-Butanone (MEK)		89.1	44.0	134.4
Dichlorodifluoromethane		83.7	10.0	222.8
Chloromethane		94.9	23.8	166.5
Vinyl chloride		96.8	43.5	149.1
Bromomethane		101.1	56.8	151.3
Chloroethane		100.4	53.4	149.4
Trichlorofluoromethane		96.2	59.7	151.8
1,1-Dichloroethene		100.3	69.6	139.4
Methylene chloride		97.4	73.3	121.1
trans-1,2-Dichloroethene		100.3	73.6	129.3
1,1-Dichloroethane		101.0	71.5	126.2
cis-1,2-Dichloroethene		100.7	76.6	122.1
Tetrahydrofuran		99.0	59.0	117.9
Chloroform		99.4	78.4	124.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 12:51, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		98.6	78.2	120.8
1,1,1-Trichloroethane		101.3	79.4	130.9
4-Methyl-2-pentanone (MIBK)		97.1	71.6	125.2
2-Hexanone		96.4	55.4	136.9
Carbon tetrachloride		106.0	72.6	133.0
Benzene		104.6	79.9	124.9
1,2-Dichloroethane		103.1	76.0	126.3
Trichloroethene		103.0	79.7	124.2
1,2-Dichloropropane		105.0	78.6	126.4
Bromodichloromethane		105.9	80.4	128.2
Dibromomethane		100.1	76.9	122.1
cis-1,3-Dichloropropene		104.2	79.8	129.9
Toluene		103.8	79.8	124.5
trans-1,3-Dichloropropene		104.7	74.0	131.3
1,1,2-Trichloroethane		100.9	78.7	123.1
Tetrachloroethene		100.6	74.5	124.5
trans-1,4-Dichloro-2-butene		102.7	68.6	135.4
Dibromochloromethane		106.3	74.6	127.2
1,2-Dibromoethane		105.7	70.3	133.7
Chlorobenzene		104.5	79.2	122.7
1,1,1,2-Tetrachloroethane		107.5	80.3	128.2
Ethylbenzene		106.7	79.5	129.1
p,m-Xylene		106.3	79.4	132.2
o-Xylene		106.9	80.2	131.0
Styrene		106.4	69.5	126.7
Isopropylbenzene		106.8	74.4	121.5
Bromoform		101.6	69.4	128.0
1,1,2,2-Tetrachloroethane		104.4	79.8	126.3
1,2,3-Trichloropropane		103.2	78.3	138.8
n-Propylbenzene		106.4	82.0	130.7
Bromobenzene		103.8	78.7	124.6
1,3,5-Trimethylbenzene		106.1	81.3	128.9
tert-Butylbenzene		105.3	80.7	128.9
1,2,4-Trimethylbenzene		104.6	81.4	130.8
sec-Butylbenzene		106.7	77.4	129.8
p-Isopropyltoluene		106.6	79.8	137.5
1,3-Dichlorobenzene		105.9	77.0	131.3
1,4-Dichlorobenzene		104.7	20.7	137.7
1,2-Dichlorobenzene		104.6	10.0	166.2
1,2,3-Trimethylbenzene		99.3	76.3	124.2
n-Butylbenzene		105.8	80.0	133.3
Hexachloroethane		100.1	23.8	138.1
1,2-Dibromo-3-chloropropane		102.1	21.2	189.4
1,2,4-Trichlorobenzene		101.5	27.4	143.4
1,2,3-Trichlorobenzene		101.6	75.4	131.4
Naphthalene		103.3	32.9	135.8

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 12:51, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		97.8	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 250321A7.LCSDW21A, Parent Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 13:14, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		101.3	67.4	121.2	0.7	30.0
Acetone		87.7	29.9	161.5	1.0	30.0
Methyl iodide		97.8	68.8	116.4	0.7	30.0
Carbon disulfide		96.1	63.8	137.4	3.3	30.0
tert-Methyl butyl ether (MTBE)		93.2	73.2	122.4	2.1	30.0
Acrylonitrile		98.5	69.9	128.9	0.7	30.0
2-Butanone (MEK)		89.1	44.0	134.4	0.0	30.0
Dichlorodifluoromethane		80.4	10.0	222.8	4.0	30.0
Chloromethane		91.4	23.8	166.5	3.8	30.0
Vinyl chloride		93.2	43.5	149.1	3.8	30.0
Bromomethane		97.7	56.8	151.3	3.5	30.0
Chloroethane		96.1	53.4	149.4	4.4	30.0
Trichlorofluoromethane		92.2	59.7	151.8	4.2	30.0
1,1-Dichloroethene		97.9	69.6	139.4	2.4	30.0
Methylene chloride		97.7	73.3	121.1	0.3	30.0
trans-1,2-Dichloroethene		97.2	73.6	129.3	3.2	30.0
1,1-Dichloroethane		99.5	71.5	126.2	1.5	30.0
cis-1,2-Dichloroethene		98.9	76.6	122.1	1.9	30.0
Tetrahydrofuran		93.4	59.0	117.9	5.8	30.0
Chloroform		98.6	78.4	124.0	0.7	30.0
Bromochloromethane		99.1	78.2	120.8	0.5	30.0
1,1,1-Trichloroethane		97.7	79.4	130.9	3.6	30.0
4-Methyl-2-pentanone (MIBK)		96.6	71.6	125.2	0.5	30.0
2-Hexanone		96.3	55.4	136.9	0.1	30.0
Carbon tetrachloride		103.3	72.6	133.0	2.6	30.0
Benzene		102.0	79.9	124.9	2.5	30.0
1,2-Dichloroethane		103.5	76.0	126.3	0.3	30.0
Trichloroethene		99.8	79.7	124.2	3.2	30.0
1,2-Dichloropropane		104.2	78.6	126.4	0.7	30.0
Bromodichloromethane		105.0	80.4	128.2	0.9	30.0
Dibromomethane		101.6	76.9	122.1	1.4	30.0
cis-1,3-Dichloropropene		105.1	79.8	129.9	0.9	30.0
Toluene		100.2	79.8	124.5	3.5	30.0
trans-1,3-Dichloropropene		105.7	74.0	131.3	0.9	30.0
1,1,2-Trichloroethane		101.3	78.7	123.1	0.3	30.0
Tetrachloroethene		96.9	74.5	124.5	3.8	30.0
trans-1,4-Dichloro-2-butene		102.9	68.6	135.4	0.2	30.0
Dibromochloromethane		105.5	74.6	127.2	0.8	30.0
1,2-Dibromoethane		106.3	70.3	133.7	0.7	30.0
Chlorobenzene		102.6	79.2	122.7	1.8	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 250321A7.LCSDW21A, Parent Sample ID: 250321A7.LCSW21A

Run in Batch: 250321A7, Run Date: 03/21/2025 13:14, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		107.0	80.3	128.2	0.4	30.0
Ethylbenzene		103.5	79.5	129.1	3.0	30.0
p,m-Xylene		102.6	79.4	132.2	3.6	30.0
o-Xylene		104.0	80.2	131.0	2.7	30.0
Styrene		104.0	69.5	126.7	2.3	30.0
Isopropylbenzene		103.2	74.4	121.5	3.4	30.0
Bromoform		103.9	69.4	128.0	2.2	30.0
1,1,2,2-Tetrachloroethane		103.6	79.8	126.3	0.7	30.0
1,2,3-Trichloropropane		102.3	78.3	138.8	0.8	30.0
n-Propylbenzene		101.4	82.0	130.7	4.8	30.0
Bromobenzene		102.2	78.7	124.6	1.6	30.0
1,3,5-Trimethylbenzene		102.2	81.3	128.9	3.7	30.0
tert-Butylbenzene		102.0	80.7	128.9	3.2	30.0
1,2,4-Trimethylbenzene		101.9	81.4	130.8	2.7	30.0
sec-Butylbenzene		101.8	77.4	129.8	4.7	30.0
p-Isopropyltoluene		101.2	79.8	137.5	5.3	30.0
1,3-Dichlorobenzene		101.9	77.0	131.3	3.8	30.0
1,4-Dichlorobenzene		101.8	20.7	137.7	2.8	30.0
1,2-Dichlorobenzene		101.3	10.0	166.2	3.3	30.0
1,2,3-Trimethylbenzene		96.7	76.3	124.2	2.6	30.0
n-Butylbenzene		101.0	80.0	133.3	4.7	30.0
Hexachloroethane		94.7	23.8	138.1	5.6	30.0
1,2-Dibromo-3-chloropropane		101.4	21.2	189.4	0.6	30.0
1,2,4-Trichlorobenzene		101.8	27.4	143.4	0.3	30.0
1,2,3-Trichlorobenzene		104.2	75.4	131.4	2.5	30.0
Naphthalene		105.3	32.9	135.8	2.0	30.0
2-Methylnaphthalene		104.7	25.5	165.5	6.9	30.0

Matrix Spike (MS)

Lab Sample ID: 250321A7.7249805M, Parent Sample ID: S72498.04

Run in Batch: 250321A7, Run Date: 03/21/2025 21:57, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		102.2	67.4	121.2
Acetone		96.6	29.9	161.5
Methyl iodide		100.0	68.8	116.4
Carbon disulfide		99.5	63.8	137.4
tert-Methyl butyl ether (MTBE)		95.7	73.2	122.4
Acrylonitrile		101.2	69.9	128.9
2-Butanone (MEK)		92.7	44.0	134.4
Dichlorodifluoromethane		84.6	10.0	222.8
Chloromethane		97.4	23.8	166.5
Vinyl chloride		99.7	43.5	149.1
Bromomethane		100.4	56.8	151.3
Chloroethane		102.5	53.4	149.4
Trichlorofluoromethane		100.7	59.7	151.8
1,1-Dichloroethene		103.1	69.6	139.4

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike (MS) (continued)

Lab Sample ID: 250321A7.7249805M, Parent Sample ID: S72498.04

Run in Batch: 250321A7, Run Date: 03/21/2025 21:57, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Methylene chloride		99.6	73.3	121.1
trans-1,2-Dichloroethene		103.1	73.6	129.3
1,1-Dichloroethane		103.6	71.5	126.2
cis-1,2-Dichloroethene		102.6	76.6	122.1
Tetrahydrofuran		97.1	59.0	117.9
Chloroform		102.1	78.4	124.0
Bromochloromethane		99.0	78.2	120.8
1,1,1-Trichloroethane		103.7	79.4	130.9
4-Methyl-2-pentanone (MIBK)		102.7	71.6	125.2
2-Hexanone		100.1	55.4	136.9
Carbon tetrachloride		108.4	72.6	133.0
Benzene		105.7	79.9	124.9
1,2-Dichloroethane		103.7	76.0	126.3
Trichloroethene		104.0	79.7	124.2
1,2-Dichloropropane		106.1	78.6	126.4
Bromodichloromethane		106.3	80.4	128.2
Dibromomethane		101.1	76.9	122.1
cis-1,3-Dichloropropene		103.0	79.8	129.9
Toluene		105.3	79.8	124.5
trans-1,3-Dichloropropene		103.1	74.0	131.3
1,1,2-Trichloroethane		103.2	78.7	123.1
Tetrachloroethene		103.3	74.5	124.5
trans-1,4-Dichloro-2-butene		81.8	68.6	135.4
Dibromochloromethane		105.3	74.6	127.2
1,2-Dibromoethane		106.4	70.3	133.7
Chlorobenzene		105.9	79.2	122.7
1,1,1,2-Tetrachloroethane		108.3	80.3	128.2
Ethylbenzene		108.3	79.5	129.1
p,m-Xylene		107.8	79.4	132.2
o-Xylene		108.4	80.2	131.0
Styrene		107.2	69.5	126.7
Isopropylbenzene		108.0	74.4	121.5
Bromoform		99.8	69.4	128.0
1,1,2,2-Tetrachloroethane		106.6	79.8	126.3
1,2,3-Trichloropropane		105.9	78.3	138.8
n-Propylbenzene		106.4	82.0	130.7
Bromobenzene		104.5	78.7	124.6
1,3,5-Trimethylbenzene		105.4	81.3	128.9
tert-Butylbenzene		106.4	80.7	128.9
1,2,4-Trimethylbenzene		106.6	81.4	130.8
sec-Butylbenzene		106.6	77.4	129.8
p-Isopropyltoluene		105.0	79.8	137.5
1,3-Dichlorobenzene		105.8	77.0	131.3
1,4-Dichlorobenzene		103.7	20.7	137.7
1,2-Dichlorobenzene		104.6	10.0	166.2
1,2,3-Trimethylbenzene		100.7	76.3	124.2

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike (MS) (continued)

Lab Sample ID: 250321A7.7249805M, Parent Sample ID: S72498.04

Run in Batch: 250321A7, Run Date: 03/21/2025 21:57, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
n-Butylbenzene		104.0	80.0	133.3
Hexachloroethane		95.8	23.8	138.1
1,2-Dibromo-3-chloropropane		103.6	21.2	189.4
1,2,4-Trichlorobenzene		98.3	27.4	143.4
1,2,3-Trichlorobenzene		97.5	75.4	131.4
Naphthalene		102.7	32.9	135.8
2-Methylnaphthalene		94.0	25.5	165.5

Matrix Spike Duplicate (MSD)

Lab Sample ID: 250321A7.7249806N, Parent Sample ID: 250321A7.7249805M

Run in Batch: 250321A7, Run Date: 03/21/2025 22:21, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		108.5	67.4	121.2	6.0	30.0
Acetone		98.7	29.9	161.5	2.1	30.0
Methyl iodide		101.6	68.8	116.4	1.6	30.0
Carbon disulfide		99.8	63.8	137.4	0.2	30.0
tert-Methyl butyl ether (MTBE)		98.3	73.2	122.4	2.7	30.0
Acrylonitrile		103.3	69.9	128.9	2.1	30.0
2-Butanone (MEK)		95.7	44.0	134.4	3.2	30.0
Dichlorodifluoromethane		83.8	10.0	222.8	1.0	30.0
Chloromethane		97.1	23.8	166.5	0.3	30.0
Vinyl chloride		99.0	43.5	149.1	0.6	30.0
Bromomethane		98.9	56.8	151.3	1.5	30.0
Chloroethane		101.0	53.4	149.4	1.5	30.0
Trichlorofluoromethane		96.2	59.7	151.8	4.7	30.0
1,1-Dichloroethene		105.6	69.6	139.4	2.4	30.0
Methylene chloride		101.1	73.3	121.1	1.5	30.0
trans-1,2-Dichloroethene		101.7	73.6	129.3	1.3	30.0
1,1-Dichloroethane		102.9	71.5	126.2	0.7	30.0
cis-1,2-Dichloroethene		101.6	76.6	122.1	1.0	30.0
Tetrahydrofuran		97.9	59.0	117.9	0.8	30.0
Chloroform		101.6	78.4	124.0	0.5	30.0
Bromochloromethane		101.9	78.2	120.8	2.9	30.0
1,1,1-Trichloroethane		103.7	79.4	130.9	0.0	30.0
4-Methyl-2-pentanone (MIBK)		102.0	71.6	125.2	0.7	30.0
2-Hexanone		101.8	55.4	136.9	1.7	30.0
Carbon tetrachloride		105.5	72.6	133.0	2.7	30.0
Benzene		103.1	79.9	124.9	2.4	30.0
1,2-Dichloroethane		103.5	76.0	126.3	0.1	30.0
Trichloroethene		102.1	79.7	124.2	1.8	30.0
1,2-Dichloropropane		105.3	78.6	126.4	0.7	30.0
Bromodichloromethane		105.1	80.4	128.2	1.1	30.0
Dibromomethane		102.2	76.9	122.1	1.1	30.0
cis-1,3-Dichloropropene		102.8	79.8	129.9	0.1	30.0
Toluene		103.4	79.8	124.5	1.9	30.0
trans-1,3-Dichloropropene		104.1	74.0	131.3	0.9	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF250321W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: 250321A7.7249806N, Parent Sample ID: 250321A7.7249805M

Run in Batch: 250321A7, Run Date: 03/21/2025 22:21, Prep Date: 03/21/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,2-Trichloroethane		103.7	78.7	123.1	0.5	30.0
Tetrachloroethene		100.3	74.5	124.5	3.0	30.0
trans-1,4-Dichloro-2-butene		78.0	68.6	135.4	4.8	30.0
Dibromochloromethane		104.1	74.6	127.2	1.1	30.0
1,2-Dibromoethane		106.2	70.3	133.7	0.2	30.0
Chlorobenzene		102.9	79.2	122.7	2.8	30.0
1,1,1,2-Tetrachloroethane		106.4	80.3	128.2	1.8	30.0
Ethylbenzene		104.5	79.5	129.1	3.5	30.0
p,m-Xylene		103.2	79.4	132.2	4.4	30.0
o-Xylene		104.0	80.2	131.0	4.1	30.0
Styrene		103.9	69.5	126.7	3.1	30.0
Isopropylbenzene		104.2	74.4	121.5	3.6	30.0
Bromoform		99.3	69.4	128.0	0.5	30.0
1,1,2,2-Tetrachloroethane		105.1	79.8	126.3	1.4	30.0
1,2,3-Trichloropropane		104.4	78.3	138.8	1.5	30.0
n-Propylbenzene		102.9	82.0	130.7	3.3	30.0
Bromobenzene		103.3	78.7	124.6	1.2	30.0
1,3,5-Trimethylbenzene		102.6	81.3	128.9	2.8	30.0
tert-Butylbenzene		103.3	80.7	128.9	3.0	30.0
1,2,4-Trimethylbenzene		102.9	81.4	130.8	3.5	30.0
sec-Butylbenzene		105.7	77.4	129.8	0.9	30.0
p-Isopropyltoluene		103.5	79.8	137.5	1.4	30.0
1,3-Dichlorobenzene		105.4	77.0	131.3	0.4	30.0
1,4-Dichlorobenzene		103.5	20.7	137.7	0.1	30.0
1,2-Dichlorobenzene		106.1	10.0	166.2	1.4	30.0
1,2,3-Trimethylbenzene		100.4	76.3	124.2	0.2	30.0
n-Butylbenzene		103.6	80.0	133.3	0.4	30.0
Hexachloroethane		96.9	23.8	138.1	1.2	30.0
1,2-Dibromo-3-chloropropane		108.9	21.2	189.4	5.0	30.0
1,2,4-Trichlorobenzene		106.6	27.4	143.4	8.1	30.0
1,2,3-Trichlorobenzene		108.9	75.4	131.4	11.1	30.0
Naphthalene		115.3	32.9	135.8	11.5	30.0
2-Methylnaphthalene		122.1	25.5	165.5	26.0	30.0

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Rodney Abke			
COMPANY Applied EcoSystems			
ADDRESS G-4300 South Saginaw Street			
CITY Burton		STATE MI	ZIP CODE 48529
PHONE NO. 810-715-2525		FAX NO. 810-715-2526	P.O. NO. PO110793**
E-MAIL ADDRESS rabke@appliedecosystems.com			QUOTE NO.

CONTACT NAME Julie McMahan		☐ SAME	
COMPANY Revitalizing Auto Communities Environmental Response (RACER) Trust			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO. 313.486.2908		E-MAIL ADDRESS jmcman@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME	RACER Flint West #12990	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED	☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____	
DELIVERABLES REQUIRED	☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☒ OTHER report to MDLs	

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR
					W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES
	DATE	TIME			
7249801	03/18	9:21	FB-1-20250318		5
.02	03/18	15:54	Trip Blank - 20250318		3
.03	03/18	10:49	ML-1125-20250318		5
.04	03/18	12:47	ML-1035-20250318		5
.05	03/18	12:47	ML-MS1035-20250318		5
.06	03/18	12:47	ML-MSD1035-20250318		5
.07	03/18	13:41	ML-1083-20250318		5
.08	03/18	-	Dup1-1-20250318		5
.09	03/18	14:21	ML-1145-20250318		5
.10	03/18	15:35	ML-1103-20250318		5
.11	03/18	15:54	EG-1-20250318		85

	VOCs	Metals dissolved*	Metals Total*						Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions
X	X	X							* - Metals list includes:
X	X	X							As, Cr-total, CR-Hex, Cu
X	X	X							Pb, Se, Zn
X	X	X							
X	X	X							Samples for dissolved
X	X	X							metals analysis were not
X	X	X							field filtered and require
X	X	X							laboratory filtering.
X	X	X							
X	X	X							report down to MCLs
X									
									** - include Task 6 on bill

RELINQUISHED BY:	<i>Glenn H. Ray</i>	☒ Sampler	DATE	TIME
SIGNATURE/ORGANIZATION			05/15	
RECEIVED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			3/18/15	16:4
RELINQUISHED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			3/18/15	16:4
RECEIVED BY:	<i>[Signature]</i>		DATE	TIME
SIGNATURE/ORGANIZATION			3/18/15	16:50

RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RECEIVED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Quality Control Report

Report ID: QC-S72500-01
Generated on 04/07/2025

Report to

Attention: Rodney Abke
Applied Ecosystems
G4300 S. Saginaw Street
Burton, MI 48529

Phone: 810-715-2525 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S72500.01-S72500.11
Project: RACER Flint West #12990
Submitted Date/Time: 03/18/2025 16:50
Sampled by: Unknown
P.O. #: PO1107493-TASK37

QC Report Sections

Cover Page (Page 1)
Analysis Summary (Pages 2-12)
Prep Batch Summary (Page 13)
Internal Standards per Lab Sample (Pages 14-22)
Internal Standards per QC Sample (Pages 23-33)
Batch QC Results (Pages 34-45)

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S72500.01
Sample Tag: FB-20250318
Collected Date/Time: 03/18/2025 09:21
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 01:36	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.02
Sample Tag: TripBlank-2025018
Collected Date/Time: 03/18/2025 09:21
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 01:56	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.03
Sample Tag: MW-112S-20250318
Collected Date/Time: 03/18/2025 10:49
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 02:16	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.04
Sample Tag: MW-MS103S-20250318
Collected Date/Time: 03/18/2025 12:47
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/25/25 15:41	AK250325W1	PF250325W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72500.05
Sample Tag: MW-108S-20250318
Collected Date/Time: 03/18/2025 13:41
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 02:56	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.06
Sample Tag: MW-103S-20250318
Collected Date/Time: 03/18/2025 12:47
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/25/25 15:21	AK250325W1	PF250325W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72500.07
Sample Tag: MW-MSD103S-20250318
Collected Date/Time: 03/18/2025 12:47
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/25/25 16:01	AK250325W1	PF250325W1	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S72500.08
Sample Tag: DUP1-1-20250318
Collected Date/Time: 03/18/2025 00:01
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 03:56	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.09
Sample Tag: MW-114S-20250318
Collected Date/Time: 03/18/2025 14:21
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 04:16	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.10
Sample Tag: MW-110S-20250318
Collected Date/Time: 03/18/2025 15:35
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 04:36	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S72500.11
Sample Tag: EB-1-20250318
Collected Date/Time: 03/18/2025 15:54
Matrix: Water
COC Reference:

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
28 PFAs	ASTMD7979-19M	03/28/25 04:56	AK250320RR	PF250320W1	Yes	BLK/LCS/LCSD

QC Report - Prep Batch Summary

Organics - Volatiles, Prep Batch ID: PF250320W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72500.01	28 PFAs	ASTMD7979-19M	03/28/25 01:36	AK250320RR
S72500.02	28 PFAs	ASTMD7979-19M	03/28/25 01:56	AK250320RR
S72500.03	28 PFAs	ASTMD7979-19M	03/28/25 02:16	AK250320RR
S72500.05	28 PFAs	ASTMD7979-19M	03/28/25 02:56	AK250320RR
S72500.08	28 PFAs	ASTMD7979-19M	03/28/25 03:56	AK250320RR
S72500.09	28 PFAs	ASTMD7979-19M	03/28/25 04:16	AK250320RR
S72500.10	28 PFAs	ASTMD7979-19M	03/28/25 04:36	AK250320RR
S72500.11	28 PFAs	ASTMD7979-19M	03/28/25 04:56	AK250320RR

Organics - Volatiles, Prep Batch ID: PF250325W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S72500.04	28 PFAs	ASTMD7979-19M	03/25/25 15:41	AK250325W1
S72500.06	28 PFAs	ASTMD7979-19M	03/25/25 15:21	AK250325W1
S72500.07	28 PFAs	ASTMD7979-19M	03/25/25 16:01	AK250325W1

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.01

Sample Tag: FB-20250318

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 01:36, Matrix: WW, Dilution: 2.01

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		90.5	50.0	150.0
M2-6:2FTSA		105.5	50.0	150.0
M2-8:2FTSA		111.6	50.0	150.0
M2PFTeDA		135.2	12.0	218.0
M3PFBS		125.2	50.0	150.0
M3PFHxS		111.8	50.0	150.0
M4PFHpA		118.1	50.0	150.0
M5PFHxA		142.0	50.0	150.0
M5PFPeA		123.1	50.0	150.0
M6PFDA		123.2	50.0	150.0
M7PFUnDA		120.0	50.0	150.0
M8FOSA		119.7	50.0	150.0
M8PFOA		112.5	50.0	150.0
M8PFOS		121.6	50.0	150.0
M9-PFNA		140.2	50.0	150.0
MPFBA		120.2	50.0	150.0
MPFDoDA		117.6	50.0	150.0
d3N-MeFOSAA		115.7	50.0	150.0
d5EtFOSAA		125.3	50.0	150.0
MHFPO-DA		110.9	50.0	150.0
d-N-EtFOSA-M		117.1	50.0	150.0
d-N-MeFOSA-M		118.8	50.0	150.0
d7-N-MeFOSE-M		123.9	50.0	150.0
d9-N-EtFOSE-M		116.2	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.02

Sample Tag: TripBlank-2025018

Collected Date/Time: 03/18/2025 09:21

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 01:56, Matrix: WW, Dilution: 2.03

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		101.7	50.0	150.0
M2-6:2FTSA		98.0	50.0	150.0
M2-8:2FTSA		93.9	50.0	150.0
M2PFTeDA		117.5	12.0	218.0
M3PFBS		120.7	50.0	150.0
M3PFHxS		117.3	50.0	150.0
M4PFHpA		137.0	50.0	150.0
M5PFHxA		129.0	50.0	150.0
M5PFPeA		117.5	50.0	150.0
M6PFDA		112.8	50.0	150.0
M7PFUnDA		104.1	50.0	150.0
M8FOSA		115.2	50.0	150.0
M8PFOA		116.5	50.0	150.0
M8PFOS		118.1	50.0	150.0
M9-PFNA		134.0	50.0	150.0
MPFBA		118.1	50.0	150.0
MPFDoDA		112.8	50.0	150.0
d3N-MeFOSAA		117.4	50.0	150.0
d5EtFOSAA		115.0	50.0	150.0
MHFPO-DA		108.6	50.0	150.0
d-N-EtFOSA-M		108.2	50.0	150.0
d-N-MeFOSA-M		116.5	50.0	150.0
d7-N-MeFOSE-M		112.0	50.0	150.0
d9-N-EtFOSE-M		117.9	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.03

Sample Tag: MW-112S-20250318

Collected Date/Time: 03/18/2025 10:49

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 02:16, Matrix: WW, Dilution: 2.05

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		148.0	50.0	150.0
M2-6:2FTSA		129.2	50.0	150.0
M2-8:2FTSA		134.8	50.0	150.0
M2PFTeDA		161.8	12.0	218.0
M3PFBS		124.4	50.0	150.0
M3PFHxS		122.3	50.0	150.0
M4PFHpA		138.6	50.0	150.0
M5PFHxA		131.9	50.0	150.0
M5PFPeA		126.5	50.0	150.0
M6PFDA		125.3	50.0	150.0
M7PFUnDA		138.1	50.0	150.0
M8FOSA		122.5	50.0	150.0
M8PFOA		129.3	50.0	150.0
M8PFOS		134.2	50.0	150.0
M9-PFNA		140.7	50.0	150.0
MPFBA		126.5	50.0	150.0
MPFDoDA		136.6	50.0	150.0
d3N-MeFOSAA		139.4	50.0	150.0
d5EtFOSAA		119.6	50.0	150.0
MHFPO-DA		118.1	50.0	150.0
d-N-EtFOSA-M		116.4	50.0	150.0
d-N-MeFOSA-M		113.9	50.0	150.0
d7-N-MeFOSE-M		116.3	50.0	150.0
d9-N-EtFOSE-M		117.6	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.05

Sample Tag: MW-108S-20250318

Collected Date/Time: 03/18/2025 13:41

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 02:56, Matrix: WW, Dilution: 2.04

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		88.2	50.0	150.0
M2-6:2FTSA		80.5	50.0	150.0
M2-8:2FTSA		96.5	50.0	150.0
M2PFTeDA		169.4	12.0	218.0
M3PFBS		114.4	50.0	150.0
M3PFHxS		122.8	50.0	150.0
M4PFHpA		118.5	50.0	150.0
M5PFHxA		131.3	50.0	150.0
M5PFPeA		118.0	50.0	150.0
M6PFDA		122.8	50.0	150.0
M7PFUnDA		108.4	50.0	150.0
M8FOSA		118.9	50.0	150.0
M8PFOA		113.2	50.0	150.0
M8PFOS		120.4	50.0	150.0
M9-PFNA		127.4	50.0	150.0
MPFBA		119.4	50.0	150.0
MPFDoDA		124.7	50.0	150.0
d3N-MeFOSAA		113.6	50.0	150.0
d5EtFOSAA		102.6	50.0	150.0
MHFPO-DA		110.0	50.0	150.0
d-N-EtFOSA-M		112.2	50.0	150.0
d-N-MeFOSA-M		116.0	50.0	150.0
d7-N-MeFOSE-M		111.5	50.0	150.0
d9-N-EtFOSE-M		113.5	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.06

Sample Tag: MW-103S-20250318

Collected Date/Time: 03/18/2025 12:47

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:21, Matrix: WW, Dilution: 2.1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		109.5	50.0	150.0
M2-6:2FTSA		97.1	50.0	150.0
M2-8:2FTSA		107.5	50.0	150.0
M2PFTeDA		102.7	12.0	218.0
M3PFBS		112.4	50.0	150.0
M3PFHxS		101.2	50.0	150.0
M4PFHpA		108.2	50.0	150.0
M5PFHxA		108.6	50.0	150.0
M5PFPeA		105.2	50.0	150.0
M6PFDA		108.1	50.0	150.0
M7PFUnDA		117.0	50.0	150.0
M8FOSA		110.6	50.0	150.0
M8PFOA		111.8	50.0	150.0
M8PFOS		106.2	50.0	150.0
M9-PFNA		114.0	50.0	150.0
MPFBA		109.2	50.0	150.0
MPFDoDA		101.1	50.0	150.0
d3N-MeFOSAA		115.3	50.0	150.0
d5EtFOSAA		115.5	50.0	150.0
MHFPO-DA		107.0	50.0	150.0
d-N-EtFOSA-M		109.0	50.0	150.0
d-N-MeFOSA-M		103.9	50.0	150.0
d7-N-MeFOSE-M		94.3	50.0	150.0
d9-N-EtFOSE-M		102.2	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.08

Sample Tag: DUP1-1-20250318

Collected Date/Time: 03/18/2025 00:01

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 03:56, Matrix: WW, Dilution: 2.05

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		96.6	50.0	150.0
M2-6:2FTSA		81.8	50.0	150.0
M2-8:2FTSA		92.1	50.0	150.0
M2PFTeDA		153.4	12.0	218.0
M3PFBS		115.2	50.0	150.0
M3PFHxS		111.9	50.0	150.0
M4PFHpA		125.1	50.0	150.0
M5PFHxA		126.0	50.0	150.0
M5PFPeA		115.5	50.0	150.0
M6PFDA		114.8	50.0	150.0
M7PFUnDA		125.7	50.0	150.0
M8FOSA		119.4	50.0	150.0
M8PFOA		111.6	50.0	150.0
M8PFOS		115.6	50.0	150.0
M9-PFNA		130.4	50.0	150.0
MPFBA		117.2	50.0	150.0
MPFDoDA		132.8	50.0	150.0
d3N-MeFOSAA		109.9	50.0	150.0
d5EtFOSAA		125.2	50.0	150.0
MHFPO-DA		104.7	50.0	150.0
d-N-EtFOSA-M		118.4	50.0	150.0
d-N-MeFOSA-M		113.6	50.0	150.0
d7-N-MeFOSE-M		110.4	50.0	150.0
d9-N-EtFOSE-M		116.6	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.09

Sample Tag: MW-114S-20250318

Collected Date/Time: 03/18/2025 14:21

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 04:16, Matrix: WW, Dilution: 2.03

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		89.0	50.0	150.0
M2-6:2FTSA		81.3	50.0	150.0
M2-8:2FTSA		89.6	50.0	150.0
M2PFTeDA		147.7	12.0	218.0
M3PFBS		111.4	50.0	150.0
M3PFHxS		102.6	50.0	150.0
M4PFHpA		115.1	50.0	150.0
M5PFHxA		130.0	50.0	150.0
M5PFPeA		114.7	50.0	150.0
M6PFDA		111.6	50.0	150.0
M7PFUnDA		117.6	50.0	150.0
M8FOSA		116.5	50.0	150.0
M8PFOA		104.7	50.0	150.0
M8PFOS		109.0	50.0	150.0
M9-PFNA		123.1	50.0	150.0
MPFBA		113.6	50.0	150.0
MPFDoDA		123.9	50.0	150.0
d3N-MeFOSAA		97.7	50.0	150.0
d5EtFOSAA		107.1	50.0	150.0
MHFPO-DA		105.9	50.0	150.0
d-N-EtFOSA-M		109.6	50.0	150.0
d-N-MeFOSA-M		110.3	50.0	150.0
d7-N-MeFOSE-M		113.2	50.0	150.0
d9-N-EtFOSE-M		120.9	50.0	150.0

Lab Sample ID: S72500.10

Sample Tag: MW-110S-20250318

Collected Date/Time: 03/18/2025 15:35

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 04:36, Matrix: WW, Dilution: 2.06

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		95.4	50.0	150.0
M2-6:2FTSA		91.5	50.0	150.0
M2-8:2FTSA		92.0	50.0	150.0
M2PFTeDA		152.4	12.0	218.0
M3PFBS		113.3	50.0	150.0
M3PFHxS		127.4	50.0	150.0
M4PFHpA		129.6	50.0	150.0
M5PFHxA		127.6	50.0	150.0
M5PFPeA		124.5	50.0	150.0
M6PFDA		122.7	50.0	150.0
M7PFUnDA		129.6	50.0	150.0
M8FOSA		125.9	50.0	150.0
M8PFOA		124.7	50.0	150.0
M8PFOS		122.2	50.0	150.0
M9-PFNA		141.8	50.0	150.0
MPFBA		119.3	50.0	150.0
MPFDoDA		140.0	50.0	150.0
d3N-MeFOSAA		124.1	50.0	150.0
d5EtFOSAA		117.7	50.0	150.0
MHFPO-DA		122.9	50.0	150.0
d-N-EtFOSA-M		120.3	50.0	150.0
d-N-MeFOSA-M		120.4	50.0	150.0
d7-N-MeFOSE-M		118.1	50.0	150.0
d9-N-EtFOSE-M		118.8	50.0	150.0

QC Report - Internal Standards per Lab Sample

Lab Sample ID: S72500.11

Sample Tag: EB-1-20250318

Collected Date/Time: 03/18/2025 15:54

Matrix: Water

COC Reference:

Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK250320RR, Run Date: 03/28/2025 04:56, Matrix: WW, Dilution: 1.96

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		104.4	50.0	150.0
M2-6:2FTSA		84.1	50.0	150.0
M2-8:2FTSA		90.8	50.0	150.0
M2PFTeDA		119.3	12.0	218.0
M3PFBS		120.3	50.0	150.0
M3PFHxS		116.2	50.0	150.0
M4PFHpA		124.3	50.0	150.0
M5PFHxA		127.3	50.0	150.0
M5PFPeA		123.7	50.0	150.0
M6PFDA		124.0	50.0	150.0
M7PFUnDA		110.6	50.0	150.0
M8FOSA		113.3	50.0	150.0
M8PFOA		107.3	50.0	150.0
M8PFOS		114.6	50.0	150.0
M9-PFNA		126.7	50.0	150.0
MPFBA		117.1	50.0	150.0
MPFDoDA		114.0	50.0	150.0
d3N-MeFOSAA		105.8	50.0	150.0
d5EtFOSAA		103.1	50.0	150.0
MHFPO-DA		100.0	50.0	150.0
d-N-EtFOSA-M		104.2	50.0	150.0
d-N-MeFOSA-M		108.5	50.0	150.0
d7-N-MeFOSE-M		108.8	50.0	150.0
d9-N-EtFOSE-M		111.4	50.0	150.0

QC Report - Internal Standards per QC Sample

Organics - Volatiles, Prep Batch ID: PF250320W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: AK250320RR.BLK250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:56, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		95.3	50.0	150.0
M2-6:2FTSA		88.2	50.0	150.0
M2-8:2FTSA		87.6	50.0	150.0
M2PFTeDA		114.7	12.0	218.0
M3PFBS		111.0	50.0	150.0
M3PFHxS		107.1	50.0	150.0
M4PFHpA		119.1	50.0	150.0
M5PFHxA		125.9	50.0	150.0
M5PFPeA		107.7	50.0	150.0
M6PFDA		99.0	50.0	150.0
M7PFUnDA		116.6	50.0	150.0
M8FOSA		109.7	50.0	150.0
M8PFOA		103.9	50.0	150.0
M8PFOS		103.3	50.0	150.0
M9-PFNA		133.4	50.0	150.0
MPFBA		109.1	50.0	150.0
MPFDoDA		103.9	50.0	150.0
d3N-MeFOSAA		98.0	50.0	150.0
d5EtFOSAA		108.0	50.0	150.0
MHFPO-DA		104.1	50.0	150.0
d-N-EtFOSA-M		97.5	50.0	150.0
d-N-MeFOSA-M		105.1	50.0	150.0
d7-N-MeFOSE-M		100.1	50.0	150.0
d9-N-EtFOSE-M		108.1	50.0	150.0

QC Report - Internal Standards per QC Sample

Blank (BLK)

Lab Sample ID: AK250320RUSH.BLK250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 14:15, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		94.8	50.0	150.0
M2-6:2FTSA		102.0	50.0	150.0
M2-8:2FTSA		94.2	50.0	150.0
M2PFTeDA		78.5	12.0	218.0
M3PFBS		103.7	50.0	150.0
M3PFHxS		110.1	50.0	150.0
M4PFHpA		96.2	50.0	150.0
M5PFHxA		109.5	50.0	150.0
M5PFPeA		111.6	50.0	150.0
M6PFDA		101.1	50.0	150.0
M7PFUnDA		88.1	50.0	150.0
M8FOSA		105.3	50.0	150.0
M8PFOA		97.3	50.0	150.0
M8PFOS		105.5	50.0	150.0
M9-PFNA		102.9	50.0	150.0
MPFBA		101.6	50.0	150.0
MPFDoDA		91.8	50.0	150.0
d3N-MeFOSAA		113.1	50.0	150.0
d5EtFOSAA		103.1	50.0	150.0
MHFPO-DA		98.3	50.0	150.0
d-N-EtFOSA-M		89.0	50.0	150.0
d-N-MeFOSA-M		101.0	50.0	150.0
d7-N-MeFOSE-M		100.6	50.0	150.0
d9-N-EtFOSE-M		95.0	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample (LCS)

Lab Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:16, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		97.6	50.0	150.0
M2-6:2FTSA		92.0	50.0	150.0
M2-8:2FTSA		93.6	50.0	150.0
M2PFTeDA		121.6	12.0	218.0
M3PFBS		115.5	50.0	150.0
M3PFHxS		115.2	50.0	150.0
M4PFHpA		116.7	50.0	150.0
M5PFHxA		115.4	50.0	150.0
M5PFPeA		113.4	50.0	150.0
M6PFDA		111.4	50.0	150.0
M7PFUnDA		102.9	50.0	150.0
M8FOSA		112.1	50.0	150.0
M8PFOA		94.2	50.0	150.0
M8PFOS		111.6	50.0	150.0
M9-PFNA		124.8	50.0	150.0
MPFBA		114.2	50.0	150.0
MPFDoDA		111.7	50.0	150.0
d3N-MeFOSAA		104.0	50.0	150.0
d5EtFOSAA		108.7	50.0	150.0
MHFPO-DA		106.3	50.0	150.0
d-N-EtFOSA-M		103.8	50.0	150.0
d-N-MeFOSA-M		109.0	50.0	150.0
d7-N-MeFOSE-M		108.0	50.0	150.0
d9-N-EtFOSE-M		117.1	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample (LCS)

Lab Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:35, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		116.7	50.0	150.0
M2-6:2FTSA		116.5	50.0	150.0
M2-8:2FTSA		88.5	50.0	150.0
M2PFTeDA		96.0	12.0	218.0
M3PFBS		115.1	50.0	150.0
M3PFHxS		114.5	50.0	150.0
M4PFHpA		101.1	50.0	150.0
M5PFHxA		114.9	50.0	150.0
M5PFPeA		116.0	50.0	150.0
M6PFDA		106.2	50.0	150.0
M7PFUnDA		100.0	50.0	150.0
M8FOSA		105.3	50.0	150.0
M8PFOA		115.0	50.0	150.0
M8PFOS		113.6	50.0	150.0
M9-PFNA		114.6	50.0	150.0
MPFBA		108.4	50.0	150.0
MPFDoDA		106.1	50.0	150.0
d3N-MeFOSAA		108.0	50.0	150.0
d5EtFOSAA		107.8	50.0	150.0
MHFPO-DA		95.6	50.0	150.0
d-N-EtFOSA-M		105.1	50.0	150.0
d-N-MeFOSA-M		115.7	50.0	150.0
d7-N-MeFOSE-M		107.2	50.0	150.0
d9-N-EtFOSE-M		101.6	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250320RR.LCSD250320, Parent Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:36, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		101.0	50.0	150.0
M2-6:2FTSA		92.6	50.0	150.0
M2-8:2FTSA		86.9	50.0	150.0
M2PFTeDA		122.5	12.0	218.0
M3PFBS		110.6	50.0	150.0
M3PFHxS		110.1	50.0	150.0
M4PFHpA		110.3	50.0	150.0
M5PFHxA		122.9	50.0	150.0
M5PFPeA		116.2	50.0	150.0
M6PFDA		107.6	50.0	150.0
M7PFUnDA		114.9	50.0	150.0
M8FOSA		121.3	50.0	150.0
M8PFOA		116.4	50.0	150.0
M8PFOS		112.7	50.0	150.0
M9-PFNA		117.8	50.0	150.0
MPFBA		116.2	50.0	150.0
MPFDoDA		127.3	50.0	150.0
d3N-MeFOSAA		113.3	50.0	150.0
d5EtFOSAA		111.3	50.0	150.0
MHFPO-DA		105.7	50.0	150.0
d-N-EtFOSA-M		103.9	50.0	150.0
d-N-MeFOSA-M		107.9	50.0	150.0
d7-N-MeFOSE-M		106.4	50.0	150.0
d9-N-EtFOSE-M		114.6	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250320RUSH.LCSD250320, Parent Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:55, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		105.5	50.0	150.0
M2-6:2FTSA		123.4	50.0	150.0
M2-8:2FTSA		81.7	50.0	150.0
M2PFTeDA		89.4	12.0	218.0
M3PFBS		106.1	50.0	150.0
M3PFHxS		120.0	50.0	150.0
M4PFHpA		112.9	50.0	150.0
M5PFHxA		108.3	50.0	150.0
M5PFPeA		117.7	50.0	150.0
M6PFDA		103.2	50.0	150.0
M7PFUnDA		90.8	50.0	150.0
M8FOSA		113.5	50.0	150.0
M8PFOA		107.5	50.0	150.0
M8PFOS		102.3	50.0	150.0
M9-PFNA		109.7	50.0	150.0
MPFBA		108.3	50.0	150.0
MPFDoDA		87.9	50.0	150.0
d3N-MeFOSAA		107.7	50.0	150.0
d5EtFOSAA		100.1	50.0	150.0
MHFPO-DA		101.5	50.0	150.0
d-N-EtFOSA-M		107.8	50.0	150.0
d-N-MeFOSA-M		109.2	50.0	150.0
d7-N-MeFOSE-M		107.9	50.0	150.0
d9-N-EtFOSE-M		110.2	50.0	150.0

QC Report - Internal Standards per QC Sample

Organics - Volatiles, Prep Batch ID: PF250325W1

QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: AK250325W1.BLK250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:01, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		100.5	50.0	150.0
M2-6:2FTSA		103.9	50.0	150.0
M2-8:2FTSA		105.1	50.0	150.0
M2PFTeDA		94.1	12.0	218.0
M3PFBS		104.1	50.0	150.0
M3PFHxS		111.3	50.0	150.0
M4PFHpA		104.6	50.0	150.0
M5PFHxA		97.9	50.0	150.0
M5PFPeA		98.2	50.0	150.0
M6PFDA		102.6	50.0	150.0
M7PFUnDA		110.5	50.0	150.0
M8FOSA		104.5	50.0	150.0
M8PFOA		98.5	50.0	150.0
M8PFOS		98.5	50.0	150.0
M9-PFNA		95.9	50.0	150.0
MPFBA		101.0	50.0	150.0
MPFDoDA		94.8	50.0	150.0
d3N-MeFOSAA		109.9	50.0	150.0
d5EtFOSAA		98.6	50.0	150.0
MHFPO-DA		97.7	50.0	150.0
d-N-EtFOSA-M		101.4	50.0	150.0
d-N-MeFOSA-M		101.1	50.0	150.0
d7-N-MeFOSE-M		94.3	50.0	150.0
d9-N-EtFOSE-M		98.0	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample (LCS)

Lab Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:21, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		106.0	50.0	150.0
M2-6:2FTSA		100.7	50.0	150.0
M2-8:2FTSA		101.4	50.0	150.0
M2PFTeDA		100.9	12.0	218.0
M3PFBS		102.5	50.0	150.0
M3PFHxS		108.1	50.0	150.0
M4PFHpA		101.2	50.0	150.0
M5PFHxA		101.6	50.0	150.0
M5PFPeA		95.5	50.0	150.0
M6PFDA		94.3	50.0	150.0
M7PFUnDA		100.5	50.0	150.0
M8FOSA		101.9	50.0	150.0
M8PFOA		104.6	50.0	150.0
M8PFOS		98.9	50.0	150.0
M9-PFNA		105.9	50.0	150.0
MPFBA		100.6	50.0	150.0
MPFDoDA		92.0	50.0	150.0
d3N-MeFOSAA		111.6	50.0	150.0
d5EtFOSAA		102.5	50.0	150.0
MHFPO-DA		103.8	50.0	150.0
d-N-EtFOSA-M		100.1	50.0	150.0
d-N-MeFOSA-M		94.8	50.0	150.0
d7-N-MeFOSE-M		95.7	50.0	150.0
d9-N-EtFOSE-M		96.2	50.0	150.0

QC Report - Internal Standards per QC Sample

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250325W1.LCSD250325, Parent Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:41, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		100.5	50.0	150.0
M2-6:2FTSA		93.2	50.0	150.0
M2-8:2FTSA		113.4	50.0	150.0
M2PFTeDA		86.3	12.0	218.0
M3PFBS		107.2	50.0	150.0
M3PFHxS		97.9	50.0	150.0
M4PFHpA		113.9	50.0	150.0
M5PFHxA		102.5	50.0	150.0
M5PFPeA		94.0	50.0	150.0
M6PFDA		103.9	50.0	150.0
M7PFUnDA		105.9	50.0	150.0
M8FOSA		101.1	50.0	150.0
M8PFOA		100.9	50.0	150.0
M8PFOS		96.2	50.0	150.0
M9-PFNA		112.8	50.0	150.0
MPFBA		102.5	50.0	150.0
MPFDoDA		95.1	50.0	150.0
d3N-MeFOSAA		104.3	50.0	150.0
d5EtFOSAA		101.5	50.0	150.0
MHFPO-DA		92.6	50.0	150.0
d-N-EtFOSA-M		109.7	50.0	150.0
d-N-MeFOSA-M		100.0	50.0	150.0
d7-N-MeFOSE-M		95.1	50.0	150.0
d9-N-EtFOSE-M		101.2	50.0	150.0

QC Report - Internal Standards per QC Sample

Matrix Spike (MS)

Lab Sample ID: AK250325W1.7250004M, Parent Sample ID: S72500.06

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:41, Prep Date: 03/25/2025, Matrix: WW, Dilution: 2.01

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		103.0	50.0	150.0
M2-6:2FTSA		108.6	50.0	150.0
M2-8:2FTSA		115.0	50.0	150.0
M2PFTeDA		95.1	12.0	218.0
M3PFBS		115.6	50.0	150.0
M3PFHxS		108.9	50.0	150.0
M4PFHpA		118.7	50.0	150.0
M5PFHxA		111.8	50.0	150.0
M5PFPeA		108.3	50.0	150.0
M6PFDA		104.0	50.0	150.0
M7PFUnDA		115.4	50.0	150.0
M8FOSA		105.5	50.0	150.0
M8PFOA		109.8	50.0	150.0
M8PFOS		97.2	50.0	150.0
M9-PFNA		110.4	50.0	150.0
MPFBA		113.8	50.0	150.0
MPFDoDA		105.3	50.0	150.0
d3N-MeFOSAA		118.2	50.0	150.0
d5EtFOSAA		107.0	50.0	150.0
MHFPO-DA		115.6	50.0	150.0
d-N-EtFOSA-M		104.0	50.0	150.0
d-N-MeFOSA-M		109.5	50.0	150.0
d7-N-MeFOSE-M		99.6	50.0	150.0
d9-N-EtFOSE-M		104.8	50.0	150.0

QC Report - Internal Standards per QC Sample

Matrix Spike Duplicate (MSD)

Lab Sample ID: AK250325W1.7250007N, Parent Sample ID: AK250325W1.7250004M

Run in Batch: AK250325W1, Run Date: 03/25/2025 16:01, Prep Date: 03/25/2025, Matrix: WW, Dilution: 2.09

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		105.4	50.0	150.0
M2-6:2FTSA		99.2	50.0	150.0
M2-8:2FTSA		92.9	50.0	150.0
M2PFTeDA		110.9	12.0	218.0
M3PFBS		113.7	50.0	150.0
M3PFHxS		101.3	50.0	150.0
M4PFHpA		110.4	50.0	150.0
M5PFHxA		103.4	50.0	150.0
M5PFPeA		99.0	50.0	150.0
M6PFDA		104.6	50.0	150.0
M7PFUnDA		121.0	50.0	150.0
M8FOSA		105.2	50.0	150.0
M8PFOA		96.5	50.0	150.0
M8PFOS		100.1	50.0	150.0
M9-PFNA		107.0	50.0	150.0
MPFBA		109.7	50.0	150.0
MPFDoDA		109.5	50.0	150.0
d3N-MeFOSAA		121.5	50.0	150.0
d5EtFOSAA		111.2	50.0	150.0
MHFPO-DA		106.8	50.0	150.0
d-N-EtFOSA-M		104.3	50.0	150.0
d-N-MeFOSA-M		100.9	50.0	150.0
d7-N-MeFOSE-M		100.3	50.0	150.0
d9-N-EtFOSE-M		107.5	50.0	150.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: AK250320RR.BLK250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:56, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	10	ng/l
PFMPA		ND	2	ng/l
FPrPA (3:3 FTCA)		ND	10	ng/l
PFPPrS		ND	2	ng/l
PFPpA		ND	4	ng/l
PFMBA		ND	2	ng/l
4:2 FTSA		ND	2	ng/l
NFDHA		ND	2	ng/l
PFHxA		ND	2	ng/l
PFBS		ND	2	ng/l
HFPO-DA		ND	10	ng/l
FPePA (5:3 FTCA)		ND	10	ng/l
PFEESA		ND	2	ng/l
PFFHpA		ND	2	ng/l
PFPpS		ND	2	ng/l
ADONA		ND	2	ng/l
6:2 FTSA		ND	2	ng/l
PFBSA		ND	2	ng/l
PFOA		ND	2	ng/l
PFHxS-BR		ND	2	ng/l
PFHxS		ND	2	ng/l
PFHxS-LN		ND	2	ng/l
FHpPA (7:3 FTCA)		ND	10	ng/l
PFNA		ND	2	ng/l
8:2 FTSA		ND	2	ng/l
PFECHS		ND	2	ng/l
PFFHpS		ND	2	ng/l
PFDA		ND	2	ng/l
N-MeFOSAA		ND	2	ng/l
PFOS-BR		ND	2	ng/l
EtFOSAA		ND	4	ng/l
PFOS		ND	2	ng/l
PFOS-LN		ND	2	ng/l
PFHxSA		ND	2	ng/l
PFUnDA		ND	2	ng/l
9CL-PF3ONS		ND	2	ng/l
PFNS		ND	2	ng/l
PFDoDA		ND	2	ng/l
PFDS		ND	2	ng/l
PFTTrDA		ND	2	ng/l
11CL-PF3OUdS		ND	2	ng/l
FOSA		ND	2	ng/l
PFTTeDA		ND	4	ng/l
PFDOS		ND	6	ng/l
NMeFOSE		ND	4	ng/l
NMeFOSAM		ND	2	ng/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: AK250320RR.BLK250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:56, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
NEtFOSE		ND	4	ng/l
NEtFOSAM		ND	2	ng/l

Blank (BLK)

Lab Sample ID: AK250320RUSH.BLK250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 14:15, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	10	ng/l
PFMPA		ND	2	ng/l
FPrPA (3:3 FTCA)		ND	10	ng/l
PFPeA		ND	4	ng/l
PFPPrS		ND	2	ng/l
PFMBA		ND	2	ng/l
4:2 FTSA		ND	2	ng/l
NFDHA		ND	2	ng/l
PFHxA		ND	2	ng/l
PFBS		ND	2	ng/l
HFPO-DA		ND	10	ng/l
FPePA (5:3 FTCA)		ND	10	ng/l
PFEESA		ND	2	ng/l
PFHpA		ND	2	ng/l
ADONA		ND	2	ng/l
PFPeS		ND	2	ng/l
6:2 FTSA		ND	2	ng/l
PFBSA		ND	2	ng/l
PFOA		ND	2	ng/l
PFHxS-BR		ND	2	ng/l
PFHxS		ND	2	ng/l
PFHxS-LN		ND	2	ng/l
FHpPA (7:3 FTCA)		ND	10	ng/l
PFNA		ND	2	ng/l
8:2 FTSA		ND	2	ng/l
PFECHS		ND	2	ng/l
PFHpS		ND	2	ng/l
N-MeFOSAA		ND	2	ng/l
PFDA		ND	2	ng/l
PFOS-BR		ND	2	ng/l
EtFOSAA		ND	4	ng/l
PFOS		ND	2	ng/l
PFOS-LN		ND	2	ng/l
PFHxSA		ND	2	ng/l
PFUnDA		ND	2	ng/l
9CL-PF3ONS		ND	2	ng/l
PFNS		ND	2	ng/l
PFDODA		ND	2	ng/l
PFDS		ND	2	ng/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: AK250320RUSH.BLK250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 14:15, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFTTrDA		ND	2	ng/l
11CL-PF3OUdS		ND	2	ng/l
FOSA		ND	2	ng/l
PFTTeDA		ND	4	ng/l
PFDOS		ND	6	ng/l
NMeFOSE		ND	4	ng/l
NMeFOSAM		ND	2	ng/l
NEtFOSE		ND	4	ng/l
NEtFOSAM		ND	2	ng/l

Laboratory Control Sample (LCS)

Lab Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:16, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		86.8	70.0	130.0
PFMPA		89.6	70.0	130.0
FPrPA (3:3 FTCA)		91.2	70.0	130.0
PFPPrS		85.0	70.0	130.0
PFPpA		88.6	70.0	130.0
PFMBA		93.2	70.0	130.0
4:2 FTSA		89.6	70.0	130.0
NFDHA		99.2	70.0	130.0
PFHxA		94.6	70.0	130.0
PFBS		86.0	70.0	130.0
HFPO-DA		82.4	70.0	130.0
FPePA (5:3 FTCA)		85.8	70.0	130.0
PFEESA		93.4	70.0	130.0
PFHpA		87.2	70.0	130.0
PFPpS		77.8	70.0	130.0
ADONA		112.6	70.0	130.0
6:2 FTSA		87.6	70.0	130.0
PFBSA		99.4	70.0	130.0
PFOA		103.2	70.0	130.0
PFHxS		94.4	70.0	130.0
FHpPA (7:3 FTCA)		104.6	70.0	130.0
PFNA		83.2	70.0	130.0
8:2 FTSA		94.2	70.0	130.0
PFECHS		89.4	70.0	130.0
PFHpS		85.2	70.0	130.0
PFDA		81.6	70.0	130.0
N-MeFOSAA		86.8	70.0	130.0
EtFOSAA		77.2	70.0	130.0
PFOS		92.0	70.0	130.0
PFHxSA		90.0	70.0	130.0
PFUnDA		94.0	70.0	130.0
9CL-PF3ONS		75.2	70.0	130.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:16, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFNS		77.4	70.0	130.0
PFDODA		84.4	70.0	130.0
PFDS		75.0	70.0	130.0
PFTTrDA		89.0	70.0	130.0
11CL-PF3OUdS		82.4	70.0	130.0
FOSA		94.6	70.0	130.0
PFTeDA		86.6	70.0	130.0
PFDOS		88.0	70.0	130.0
NMeFOSE		87.6	70.0	130.0
NMeFOSAM		101.2	70.0	130.0
NEtFOSE		87.0	70.0	130.0
NEtFOSAM		97.8	70.0	130.0

Laboratory Control Sample (LCS)

Lab Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:35, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		92.8	70.0	130.0
PFMPA		93.6	70.0	130.0
FPrPA (3:3 FTCA)		102.8	70.0	130.0
PFPeA		97.8	70.0	130.0
PFPPrS		86.2	70.0	130.0
PFMBA		88.4	70.0	130.0
4:2 FTSA		100.8	70.0	130.0
NFDHA		83.6	70.0	130.0
PFHxA		97.0	70.0	130.0
PFBS		92.2	70.0	130.0
HFPO-DA		98.8	70.0	130.0
FPePA (5:3 FTCA)		105.6	70.0	130.0
PFEESA		97.2	70.0	130.0
PFHpA		92.0	70.0	130.0
ADONA		88.6	70.0	130.0
PFPeS		90.8	70.0	130.0
6:2 FTSA		89.8	70.0	130.0
PFBSA		103.4	70.0	130.0
PFOA		89.8	70.0	130.0
PFHxS		105.4	70.0	130.0
FHpPA (7:3 FTCA)		84.8	70.0	130.0
PFNA		76.0	70.0	130.0
8:2 FTSA		96.6	70.0	130.0
PFECHS		105.8	70.0	130.0
PFHpS		89.0	70.0	130.0
N-MeFOSAA		93.0	70.0	130.0
PFDA		99.8	70.0	130.0
EtFOSAA		88.0	70.0	130.0
PFOS		92.0	70.0	130.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:35, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFHxSA		104.8	70.0	130.0
PFUnDA		120.4	70.0	130.0
9CL-PF3ONS		96.0	70.0	130.0
PFNS		91.8	70.0	130.0
PFDODA		89.6	70.0	130.0
PFDS		102.6	70.0	130.0
PFTTrDA		86.6	70.0	130.0
11CL-PF3OUdS		95.2	70.0	130.0
FOSA		91.2	70.0	130.0
PFTeDA		102.2	70.0	130.0
PFDOS		88.6	70.0	130.0
NMeFOSE		92.8	70.0	130.0
NMeFOSAM		91.8	70.0	130.0
NEtFOSE		111.6	70.0	130.0
NEtFOSAM		113.2	70.0	130.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250320RR.LCSD250320, Parent Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:36, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		84.0	70.0	130.0	3.3	30.0
PFMPA		84.6	70.0	130.0	5.7	30.0
FPrPA (3:3 FTCA)		87.4	70.0	130.0	4.3	30.0
PFPPrS		84.0	70.0	130.0	1.2	30.0
PFPeA		87.8	70.0	130.0	0.9	30.0
PFMBA		83.8	70.0	130.0	10.6	30.0
4:2 FTSA		90.2	70.0	130.0	0.7	30.0
NFDHA		92.8	70.0	130.0	6.7	30.0
PFHxA		89.0	70.0	130.0	6.1	30.0
PFBS		91.6	70.0	130.0	6.3	30.0
HFPO-DA		88.8	70.0	130.0	7.5	30.0
FPePA (5:3 FTCA)		82.4	70.0	130.0	4.0	30.0
PFEESA		87.6	70.0	130.0	6.4	30.0
PFHpA		92.2	70.0	130.0	5.6	30.0
PFPeS		73.2	70.0	130.0	6.1	30.0
ADONA	*	81.0	70.0	130.0	32.6	30.0
6:2 FTSA		74.8	70.0	130.0	15.8	30.0
PFBSA		83.0	70.0	130.0	18.0	30.0
PFOA		76.6	70.0	130.0	29.6	30.0
PFHxS		89.4	70.0	130.0	5.4	30.0
FHpPA (7:3 FTCA)		77.4	70.0	130.0	29.9	30.0
PFNA		85.8	70.0	130.0	3.1	30.0
8:2 FTSA		103.6	70.0	130.0	9.5	30.0
PFECHS		85.4	70.0	130.0	4.6	30.0
PFHpS		102.2	70.0	130.0	18.1	30.0
PFDA		89.2	70.0	130.0	8.9	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: AK250320RR.LCSD250320, Parent Sample ID: AK250320RR.LCS250320

Run in Batch: AK250320RR, Run Date: 03/28/2025 00:36, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
N-MeFOSAA		84.2	70.0	130.0	3.0	30.0
EtFOSAA		82.4	70.0	130.0	6.5	30.0
PFOS		86.0	70.0	130.0	6.7	30.0
PFHxSA		79.2	70.0	130.0	12.8	30.0
PFUnDA		89.0	70.0	130.0	5.5	30.0
9CL-PF3ONS		70.0	70.0	130.0	7.2	30.0
PFNS		85.0	70.0	130.0	9.4	30.0
PFDODA		73.8	70.0	130.0	13.4	30.0
PFDS		78.8	70.0	130.0	4.9	30.0
PFTTrDA		75.4	70.0	130.0	16.5	30.0
11CL-PF3OUdS		80.6	70.0	130.0	2.2	30.0
FOSA		79.4	70.0	130.0	17.5	30.0
PFTeDA		93.2	70.0	130.0	7.3	30.0
PFDOS		83.8	70.0	130.0	4.9	30.0
NMeFOSE		91.2	70.0	130.0	4.0	30.0
NMeFOSAM		108.6	70.0	130.0	7.1	30.0
NEtFOSE		86.6	70.0	130.0	0.5	30.0
NEtFOSAM		84.0	70.0	130.0	15.2	30.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250320RUSH.LCSD250320, Parent Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:55, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		90.8	70.0	130.0	2.2	30.0
PFMPA		101.2	70.0	130.0	7.8	30.0
FPrPA (3:3 FTCA)		97.6	70.0	130.0	5.2	30.0
PFPeA		92.2	70.0	130.0	5.9	30.0
PFPPrS		93.8	70.0	130.0	8.4	30.0
PFMBA		100.6	70.0	130.0	12.9	30.0
4:2 FTSA		116.0	70.0	130.0	14.0	30.0
NFDHA		90.8	70.0	130.0	8.3	30.0
PFHxA		90.6	70.0	130.0	6.8	30.0
PFBS		103.6	70.0	130.0	11.6	30.0
HFPO-DA		96.2	70.0	130.0	2.7	30.0
FPePA (5:3 FTCA)		103.8	70.0	130.0	1.7	30.0
PFEESA		90.6	70.0	130.0	7.0	30.0
PFHpA		86.4	70.0	130.0	6.3	30.0
ADONA		83.2	70.0	130.0	6.3	30.0
PFPeS		97.4	70.0	130.0	7.0	30.0
6:2 FTSA		76.8	70.0	130.0	15.6	30.0
PFBSA		88.4	70.0	130.0	15.6	30.0
PFOA		83.2	70.0	130.0	7.6	30.0
PFHxS		85.8	70.0	130.0	20.5	30.0
FHpPA (7:3 FTCA)		100.0	70.0	130.0	16.5	30.0
PFNA		70.2	70.0	130.0	7.9	30.0
8:2 FTSA		108.0	70.0	130.0	11.1	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250320W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: AK250320RUSH.LCSD250320, Parent Sample ID: AK250320RUSH.LCS250320

Run in Batch: AK250320RUSH, Run Date: 03/20/2025 13:55, Prep Date: 03/20/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFECHS		119.8	70.0	130.0	12.4	30.0
PFHpS		86.8	70.0	130.0	2.5	30.0
N-MeFOSAA		93.8	70.0	130.0	0.9	30.0
PFDA		106.6	70.0	130.0	6.6	30.0
EtFOSAA		85.0	70.0	130.0	3.5	30.0
PFOS		91.6	70.0	130.0	0.4	30.0
PFHxSA		87.6	70.0	130.0	17.9	30.0
PFUnDA		124.0	70.0	130.0	2.9	30.0
9CL-PF3ONS		104.8	70.0	130.0	8.8	30.0
PFNS		101.8	70.0	130.0	10.3	30.0
PFDODA		99.4	70.0	130.0	10.4	30.0
PFDS		111.4	70.0	130.0	8.2	30.0
PFTTrDA		98.4	70.0	130.0	12.8	30.0
11CL-PF3OUdS		98.8	70.0	130.0	3.7	30.0
FOSA		81.2	70.0	130.0	11.6	30.0
PFTeDA		91.8	70.0	130.0	10.7	30.0
PFDOS		93.4	70.0	130.0	5.3	30.0
NMeFOSE		97.0	70.0	130.0	4.4	30.0
NMeFOSAM		91.6	70.0	130.0	0.2	30.0
NEtFOSE		91.8	70.0	130.0	19.5	30.0
NEtFOSAM		100.8	70.0	130.0	11.6	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250325W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: AK250325W1.BLK250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:01, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	10	ng/l
PFMPA		ND	2	ng/l
FPrPA (3:3 FTCA)		ND	10	ng/l
PFPPrS		ND	2	ng/l
PFPpA		ND	4	ng/l
PFMBA		ND	2	ng/l
4:2 FTSA		ND	2	ng/l
NFDHA		ND	2	ng/l
PFHxA		ND	2	ng/l
PFBS		ND	2	ng/l
HFPO-DA		ND	10	ng/l
FPePA (5:3 FTCA)		ND	10	ng/l
PFEESA		ND	2	ng/l
PFFHpA		ND	2	ng/l
ADONA		ND	2	ng/l
PFPpS		ND	2	ng/l
6:2 FTSA		ND	2	ng/l
PFBSA		ND	2	ng/l
PFOA		ND	2	ng/l
PFHxS-BR		ND	2	ng/l
PFHxS		ND	2	ng/l
PFHxS-LN		ND	2	ng/l
FHpPA (7:3 FTCA)		ND	10	ng/l
PFNA		ND	2	ng/l
8:2 FTSA		ND	2	ng/l
PFECHS		ND	2	ng/l
PFFHpS		ND	2	ng/l
N-MeFOSAA		ND	2	ng/l
PFDA		ND	2	ng/l
PFOS-BR		ND	2	ng/l
EtFOSAA		ND	4	ng/l
PFOS		ND	2	ng/l
PFOS-LN		ND	2	ng/l
PFHxSA		ND	2	ng/l
PFUnDA		ND	2	ng/l
9CL-PF3ONS		ND	2	ng/l
PFNS		ND	2	ng/l
PFDoDA		ND	2	ng/l
PFDS		ND	2	ng/l
PFTTrDA		ND	2	ng/l
11CL-PF3OUdS		ND	2	ng/l
FOSA		ND	2	ng/l
PFTeDA		ND	4	ng/l
PFDOS		ND	6	ng/l
NMeFOSE		ND	4	ng/l
NMeFOSAM		ND	2	ng/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250325W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK) (continued)

Lab Sample ID: AK250325W1.BLK250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:01, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
NEtFOSE		ND	4	ng/l
NEtFOSAM		ND	2	ng/l

Laboratory Control Sample (LCS)

Lab Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:21, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		103.4	70.0	130.0
PFMPA		102.4	70.0	130.0
FPrPA (3:3 FTCA)		101.2	70.0	130.0
PFPPrS		105.6	70.0	130.0
PFPeA		107.8	70.0	130.0
PFMBA		104.4	70.0	130.0
4:2 FTSA		106.2	70.0	130.0
NFDHA		105.8	70.0	130.0
PFHxA		102.4	70.0	130.0
PFBS		109.6	70.0	130.0
HFPO-DA		97.6	70.0	130.0
FPePA (5:3 FTCA)		89.8	70.0	130.0
PFEESA		99.4	70.0	130.0
PFHpA		111.8	70.0	130.0
ADONA		109.6	70.0	130.0
PFPeS		99.0	70.0	130.0
6:2 FTSA		88.0	70.0	130.0
PFBSA		100.0	70.0	130.0
PFOA		85.4	70.0	130.0
PFHxS		105.6	70.0	130.0
FHpPA (7:3 FTCA)		91.0	70.0	130.0
PFNA		92.2	70.0	130.0
8:2 FTSA		108.8	70.0	130.0
PFECHS		108.8	70.0	130.0
PFHpS		100.0	70.0	130.0
N-MeFOSAA		97.4	70.0	130.0
PFDA		117.2	70.0	130.0
EtFOSAA		103.6	70.0	130.0
PFOS		109.2	70.0	130.0
PFHxSA		100.4	70.0	130.0
PFUnDA		111.8	70.0	130.0
9CL-PF3ONS		99.4	70.0	130.0
PFNS		102.8	70.0	130.0
PFDoDA		103.0	70.0	130.0
PFDS		90.0	70.0	130.0
PFTTrDA		95.4	70.0	130.0
11CL-PF3OUdS		107.0	70.0	130.0
FOSA		108.4	70.0	130.0
PFTeDA		110.0	70.0	130.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250325W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:21, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFDOS		99.0	70.0	130.0
NMeFOSE		100.4	70.0	130.0
NMeFOSAM		110.8	70.0	130.0
NEtFOSE		109.4	70.0	130.0
NEtFOSAM		106.6	70.0	130.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK250325W1.LCSD250325, Parent Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:41, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		98.8	70.0	130.0	4.5	30.0
PFMPA		104.6	70.0	130.0	2.1	30.0
FPrPA (3:3 FTCA)		108.2	70.0	130.0	6.7	30.0
PFPPrS		96.6	70.0	130.0	8.9	30.0
PFPpA		102.6	70.0	130.0	4.9	30.0
PFMBA		102.8	70.0	130.0	1.5	30.0
4:2 FTSA		102.2	70.0	130.0	3.8	30.0
NFDHA		108.2	70.0	130.0	2.2	30.0
PFHxA		104.2	70.0	130.0	1.7	30.0
PFBS		107.0	70.0	130.0	2.4	30.0
HFPO-DA		110.0	70.0	130.0	11.9	30.0
FPePA (5:3 FTCA)		93.4	70.0	130.0	3.9	30.0
PFEESA		120.8	70.0	130.0	19.4	30.0
PFHpA		93.6	70.0	130.0	17.7	30.0
ADONA		104.2	70.0	130.0	5.1	30.0
PFPpS		95.6	70.0	130.0	3.5	30.0
6:2 FTSA		100.8	70.0	130.0	13.6	30.0
PFBSA		96.8	70.0	130.0	3.3	30.0
PFOA		88.0	70.0	130.0	3.0	30.0
PFHxS		104.4	70.0	130.0	1.1	30.0
FHpPA (7:3 FTCA)		90.8	70.0	130.0	0.2	30.0
PFNA		75.0	70.0	130.0	20.6	30.0
8:2 FTSA		96.4	70.0	130.0	12.1	30.0
PFECHS		105.0	70.0	130.0	3.6	30.0
PFHpS		110.2	70.0	130.0	9.7	30.0
N-MeFOSAA		98.8	70.0	130.0	1.4	30.0
PFDA		98.0	70.0	130.0	17.8	30.0
EtFOSAA		100.8	70.0	130.0	2.7	30.0
PFOS		105.8	70.0	130.0	3.2	30.0
PFHxSA		98.8	70.0	130.0	1.6	30.0
PFUnDA		103.8	70.0	130.0	7.4	30.0
9CL-PF3ONS		108.0	70.0	130.0	8.3	30.0
PFNS		99.4	70.0	130.0	3.4	30.0
PFDODA		94.6	70.0	130.0	8.5	30.0
PFDS		95.2	70.0	130.0	5.6	30.0
PFTTrDA		88.0	70.0	130.0	8.1	30.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250325W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: AK250325W1.LCSD250325, Parent Sample ID: AK250325W1.LCS250325

Run in Batch: AK250325W1, Run Date: 03/25/2025 14:41, Prep Date: 03/25/2025, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
11CL-PF3OUdS		99.4	70.0	130.0	7.4	30.0
FOSA		110.4	70.0	130.0	1.8	30.0
PFTeDA		106.4	70.0	130.0	3.3	30.0
PFDOS		95.8	70.0	130.0	3.3	30.0
NMeFOSE		96.2	70.0	130.0	4.3	30.0
NMeFOSAM		105.0	70.0	130.0	5.4	30.0
NEtFOSE		96.8	70.0	130.0	12.2	30.0
NEtFOSAM		90.0	70.0	130.0	16.9	30.0

Matrix Spike (MS)

Lab Sample ID: AK250325W1.7250004M, Parent Sample ID: S72500.06

Run in Batch: AK250325W1, Run Date: 03/25/2025 15:41, Prep Date: 03/25/2025, Matrix: WW, Dilution: 2.01

Analyte	Flags	% Rec	LCL	UCL
PFBA		99.0	70.0	130.0
PFPeA		97.0	70.0	130.0
4:2 FTSA		108.9	70.0	130.0
PFHxA		99.0	70.0	130.0
PFBS		108.0	70.0	130.0
PFHpA		99.0	70.0	130.0
PFPeS		108.9	70.0	130.0
6:2 FTSA		86.1	70.0	130.0
PFOA		90.1	70.0	130.0
PFHxS		106.1	70.0	130.0
PFNA		91.1	70.0	130.0
8:2 FTSA		92.1	70.0	130.0
PFHpS		108.9	70.0	130.0
PFDA		99.0	70.0	130.0
N-MeFOSAA		92.1	70.0	130.0
EtFOSAA		108.9	70.0	130.0
PFOS		107.9	70.0	130.0
PFUnDA		108.9	70.0	130.0
PFNS		99.0	70.0	130.0
PFDoDA		89.1	70.0	130.0
PFDS		98.0	70.0	130.0
PFTTrDA		89.1	70.0	130.0
FOSA		108.9	70.0	130.0
PFTeDA		99.0	70.0	130.0
11CL-PF3OUdS		99.0	70.0	130.0
9CL-PF3ONS		99.0	70.0	130.0
ADONA		98.0	70.0	130.0
HFPO-DA		87.1	70.0	130.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: PF250325W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike Duplicate (MSD)

Lab Sample ID: AK250325W1.7250007N, Parent Sample ID: AK250325W1.7250004M

Run in Batch: AK250325W1, Run Date: 03/25/2025 16:01, Prep Date: 03/25/2025, Matrix: WW, Dilution: 2.09

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		104.8	70.0	130.0	9.5	30.0
PFPeA		104.8	70.0	130.0	11.5	30.0
4:2 FTSA		104.8	70.0	130.0	0.0	30.0
PFHxA		104.8	70.0	130.0	9.5	30.0
PFBS		103.9	70.0	130.0	0.0	30.0
PFHpA		104.8	70.0	130.0	9.5	30.0
PFPeS		95.2	70.0	130.0	9.5	30.0
6:2 FTSA		95.2	70.0	130.0	13.9	30.0
PFOA		113.3	70.0	130.0	26.4	30.0
PFHxS		102.1	70.0	130.0	0.0	30.0
PFNA		92.4	70.0	130.0	5.3	30.0
8:2 FTSA		114.3	70.0	130.0	25.4	30.0
PFHpS		114.3	70.0	130.0	8.7	30.0
PFDA		114.3	70.0	130.0	18.2	30.0
N-MeFOSAA		87.6	70.0	130.0	1.1	30.0
EtFOSAA		104.8	70.0	130.0	0.0	30.0
PFOS		103.8	70.0	130.0	0.0	30.0
PFUnDA		104.8	70.0	130.0	0.0	30.0
PFNS		95.2	70.0	130.0	0.0	30.0
PFDoDA		94.3	70.0	130.0	9.5	30.0
PFDS		95.2	70.0	130.0	1.0	30.0
PFTTrDA		92.4	70.0	130.0	7.5	30.0
FOSA		104.8	70.0	130.0	0.0	30.0
PFTeDA		114.3	70.0	130.0	18.2	30.0
11CL-PF3OUdS		95.2	70.0	130.0	0.0	30.0
9CL-PF3ONS		104.8	70.0	130.0	9.5	30.0
ADONA		114.3	70.0	130.0	19.2	30.0
HFPO-DA		95.2	70.0	130.0	12.8	30.0



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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Rodney Abke		
COMPANY Applied EcoSystems		
ADDRESS G-4300 South Saginaw Street		
CITY Burton	STATE MI	ZIP CODE 48529
PHONE NO. 810-715-2525	FAX NO. 810-715-2526	P.O. NO. PO110793**
E-MAIL ADDRESS rabke@appliedecosystems.com		QUOTE NO.

CONTACT NAME Julie McMahan		☐ SAME
COMPANY Revitalizing Auto Communities Environmental Response (RACER) Trust		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE NO. 313-486-2908	E-MAIL ADDRESS jmcman@racertrust.org	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME RACER Flint West #12990	SAMPLER(S) - PLEASE PRINT/SIGN NAME
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☒ OTHER report to MDLs	

MATRIX CODE:	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	
	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR	W=WASTE

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF
	DATE	TIME			
72500.01	03/18	9:21	FD1-20250318		1
102	03/18	9:21	Tap Blank - 20250318		2
103	03/18	10:49	MW-1125-20250318		3
104	03/18	12:47	MW-105MS1035-20250318		3
105	03/18	13:41	MW-1085-20250318		3
106	03/18	12:47	MW-1035-20250318		3
107	03/18	12:47	MW-MSD1035-20250318		3
108	03/18	-	DUP1-1-20250318		3
109	03/18	14:52	MW-1145-20250318		3
110	03/18	15:55	MW-1105-20250318		3
111	03/18	15:54	EB-1-20250318		3

Certifications

☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York
☐ Other

Special Instructions

*- 28 Compound List

report down to MDLs

** - include Task 37 on bill

RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY:	SIGNATURE/ORGANIZATION	DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	TEMP. ON ARRIVAL

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

TABLE 2
Soil Analytical Results - VOCs and Metals
RACER - Flint West #12990

EGLE Generic Residential Cleanup Criteria							Acetone	Benzene	2-Butanone (MEK)	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethyl benzene	Isopropyl benzene	p-isopropyltoluene	Methylene chloride	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran
Chemical Abstract Service Number							67-64-1	71-43-2	78-93-3	67-66-3	95-50-1	75-34-3	75-35-4	156-59-2	156-60-5	100-41-4	98-82-8		75-09-2	91-57-6	91-20-3	103-65-1	127-18-4	109-99-9
Drinking Water Protection - Residential							15,000	100	260,000	1,600 (W)	14,000	18,000	140	1,400	2,000	1,500	91,000	NA	100	57,000	35,000	1,600	100	1,900
Drinking Water Protection - Non-Residential							42,000	100	760,000	1,600 (W)	14,000	50,000	140	1,400	2,000	1,500	260,000	NA	100	170,000	100,000	4,600	100	5,400
Groundwater Surface Water Interface Protection							34,000	4,000 (X)	44,000	7,000	280	15,000	2,600	12,000	30,000 (X)	360	3,200	NA	30,000	4,200	730	ID	1,200 (X)	2.2E+5 (X)
Volatilization to Indoor Air - Non-Residential							5.4E+08	8,400	9.9E+7 (C)	38,000	2.0E+07	430,000	330	41,000	43,000	460,000	730,000	NA	240,000	4.9E+06	470,000	ID	21,000	2.4E+06
Volatilization to Ambient Air - Non-Residential							1.6E+08	230,000	3.5E+07	150,000	4.6E+07	2.5E+06	3,700	210,000	330,000	6.5E+06	2.0E+06	NA	700,000	1.8E+06	350,000	ID	210,000	1.5E+07
Particulate Soil Inhalation - Residential							3.9E+11	3.8E+08	6.7E+10	1.3E+09	1.0E+11	3.3E+10	6.2E+07	2.3E+09	4.7E+09	1.0E+10	5.8E+09	NA	6.6E+09	6.7E+08	2.0E+08	1.3E+09	2.7E+09	3.9E+11
Particulate Soil Inhalation - Non-Residential							1.7E+11	4.7E+08	2.9E+10	1.6E+09	4.4E+10	1.5E+10	7.8E+07	1.0E+09	2.1E+09	1.3E+10	2.6E+09	NA	8.3E+09	2.9E+08	8.8E+07	5.9E+08	1.2E+09	1.7E+11
Direct Contact - Residential							2.3E+07	180,000	1.2E+8 (C, DD)	1.2E+06	1.9E+07	2.7E+7 (C)	200,000	2.5E+6 (C)	3.8E+06	2.2E+07	2.5E+07	NA	1.3E+06	8.1E+06	1.6E+07	2.5E+06	200,000	2.9E+06
Direct Contact - Non-Residential							7.3E+07	840,000	7.0E+8 (C, DD)	5.5E+6 (C)	6.3E+07	8.7E+7 (C)	660,000 (C)	8.0E+6 (C)	1.2E+07	7.1E+07	8.0E+07	NA	5.8E+06	2.6E+07	5.2E+07	8.0E+06	930,000	9.5E+06
Soil Saturation Concentration Screening Level							1.1E+08	400,000	2.7E+07	1.5E+06	210,000	890,000	570,000	640,000	640,000	140,000	390,000	NA	2.3E+06	NA	NA	10,000,000	88,000	1.2E+08
Statewide Default Background Levels							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample ID	Sample Depth (feet bgs)	Sample Date	Soil Type	Nearest Well	DTW Range	Below DTW																		
SB-122	15-16	04/30/13	Clay			Yes	ND	ND	ND	ND	ND	ND	ND	1,600	ND	ND	ND	ND	100	ND	ND	ND	ND	ND
SB-123	5-6	04/30/13	Clay	MW-102S	10.2 to 13.70	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65	93	18	345	210	ND	18	ND
SB124-4	4	04/21/14	Sand, Silty	MW-102S	10.2 to 13.70	No	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	11	ND	ND	170
SB124-10	10	04/21/14	Sand, Silty	MW-102S	10.2 to 13.70	No	ND	ND	71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
SB124-21	21	04/21/14	Clay	MW-102S	10.2 to 13.70	Yes	ND	ND	56	ND	ND	ND	ND	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
SB125-4	4	04/21/14	Sand	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	14	ND	ND	150
SB125-13	13	04/21/14	Clayey Sand	MW-112S	14.77 to 17.62	No	ND	ND	165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	17	ND	ND	180
SB125-19	19	04/21/14	Clay	MW-112S	14.77 to 17.62	Yes	ND	ND	79	16	ND	ND	ND	350	ND	ND	ND	ND	ND	ND	ND	ND	ND	180
SB126-4	4	04/21/14	Sand, Silty	MW-111S	9.12 to 12.33	No	ND	ND	82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	14	ND	ND	140
SB126-11	11	04/21/14	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	ND	ND	190
SB126-15	15	04/21/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210
SB127-4	4	04/21/14	Sand, Silty	MW-116S	16.97 to 18.23	No	ND	ND	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	190
SB127-8	8	04/21/14	Sand, Silty	MW-116S	16.97 to 18.23	No	ND	ND	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
SB127-15	15	04/21/14	Clayey Sand	MW-116S	16.97 to 18.23	No	ND	ND	148	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30	14	ND	ND	170
SB127-20	20	04/21/14	Sand	MW-116S	16.97 to 18.23	Yes	ND	ND	126	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
SB128-3	3	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	150
SB128-7	7	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	123	ND	21	ND	ND	ND	ND	ND	16	ND	ND	820	346	ND	ND	150
SB128-10	10	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	127	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46	47	ND	ND	140
SB129-4	4	04/22/14	Sand, Silty	MW-102S	10.2 to 13.70	No	ND	ND	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43	40	ND	ND	150
SB129-8	8	04/22/14	Clay	MW-102S	10.2 to 13.70	No	ND	ND	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	180
SB129-18	18	04/22/14	Clay	MW-102S	10.2 to 13.70	Yes	ND	ND	82	ND	ND	ND	ND	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	180
SB130-4	4	04/22/14	Sand	MW-111S	9.12 to 12.33	No	ND	ND	69	ND	ND	ND	ND	ND	ND	15	13	ND	ND	54	52	16	ND	180
SB130-10	10	04/22/14	Sand	MW-111S	9.12 to 12.33	Yes	ND	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB130-18	18	04/22/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	36	70	ND	ND	69	34	6,380	100	ND	ND	ND	ND	ND	ND	ND	ND	160
SB131-4	4	04/22/14	Sand, Silty	MW-111S	9.12 to 12.33	No	ND	ND	79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	72	100	ND	ND	150
SB131-10	10	04/22/14	Clay	MW-111S	9.12 to 12.33	No	ND	ND	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180
SB131-18	18	04/22/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	164	ND	ND	35	18	2,820	62	ND	ND	ND	ND	ND	ND	ND	ND	160
SB132-12	12	07/10/14	Clay, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	2,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,500
SB132-15	15	07/10/14	BR, Shale	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
SB133-17	17	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	13	ND	1,990	18	ND	ND	ND	ND	15	ND	ND	ND	150
SB133-19	19	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	ND	ND	530	ND	ND	ND	ND	ND	12	ND	ND	ND	160
SB133-20	20	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	ND	ND	270	ND	ND	ND	ND	ND	9	ND	ND	ND	117
SB134-18	18	12/22/14	Clay, Silty	MW-110S	8.56 to 10.26	Yes	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	29	37	14	ND	ND
SB134-20	20	12/22/14	Clay, Silty	MW-110S	8.56 to 10.26	Yes	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
Soil Analytical Results - VOCs and Metals
RACER - Flint West #12990

EGLE Generic Residential Cleanup Criteria							Acetone	Benzene	2-Butanone (MEK)	Chloroform	1,2-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethyl benzene	Isopropyl benzene	p-isopropyltoluene	Methylene chloride	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethylene (PCE)	Tetrahydrofuran
Chemical Abstract Service Number							67-64-1	71-43-2	78-93-3	67-66-3	95-50-1	75-34-3	75-35-4	156-59-2	156-60-5	100-41-4	98-82-8		75-09-2	91-57-6	91-20-3	103-65-1	127-18-4	109-99-9
Drinking Water Protection - Residential							15,000	100	260,000	1,600 (W)	14,000	18,000	140	1,400	2,000	1,500	91,000	NA	100	57,000	35,000	1,600	100	1,900
Drinking Water Protection - Non-Residential							42,000	100	760,000	1,600 (W)	14,000	50,000	140	1,400	2,000	1,500	260,000	NA	100	170,000	100,000	4,600	100	5,400
Groundwater Surface Water Interface Protection							34,000	4,000 (X)	44,000	7,000	280	15,000	2,600	12,000	30,000 (X)	360	3,200	NA	30,000	4,200	730	ID	1,200 (X)	2.2E+5 (X)
Volatilization to Indoor Air - Non-Residential							5.4E+08	8,400	9.9E+7 (C)	38,000	2.0E+07	430,000	330	41,000	43,000	460,000	730,000	NA	240,000	4.9E+06	470,000	ID	21,000	2.4E+06
Volatilization to Ambient Air - Non-Residential							1.6E+08	230,000	3.5E+07	150,000	4.6E+07	2.5E+06	3,700	210,000	330,000	6.5E+06	2.0E+06	NA	700,000	1.8E+06	350,000	ID	210,000	1.5E+07
Particulate Soil Inhalation - Residential							3.9E+11	3.8E+08	6.7E+10	1.3E+09	1.0E+11	3.3E+10	6.2E+07	2.3E+09	4.7E+09	1.0E+10	5.8E+09	NA	6.6E+09	6.7E+08	2.0E+08	1.3E+09	2.7E+09	3.9E+11
Particulate Soil Inhalation - Non-Residential							1.7E+11	4.7E+08	2.9E+10	1.6E+09	4.4E+10	1.5E+10	7.8E+07	1.0E+09	2.1E+09	1.3E+10	2.6E+09	NA	8.3E+09	2.9E+08	8.8E+07	5.9E+08	1.2E+09	1.7E+11
Direct Contact - Residential							2.3E+07	180,000	1.2E+8 (C, DD)	1.2E+06	1.9E+07	2.7E+7 (C)	200,000	2.5E+6 (C)	3.8E+06	2.2E+07	2.5E+07	NA	1.3E+06	8.1E+06	1.6E+07	2.5E+06	200,000	2.9E+06
Direct Contact - Non-Residential							7.3E+07	840,000	7.0E+8 (C,DD)	5.5E+6 (C)	6.3E+07	8.7E+7 (C)	660,000 (C)	8.0E+6 (C)	1.2E+07	7.1E+07	8.0E+07	NA	5.8E+06	2.6E+07	5.2E+07	8.0E+06	930,000	9.5E+06
Soil Saturation Concentration Screening Level							1.1E+08	400,000	2.7E+07	1.5E+06	210,000	890,000	570,000	640,000	640,000	140,000	390,000	NA	2.3E+06	NA	NA	10,000,000	88,000	1.2E+08
Statewide Default Background Levels							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample ID	Sample Depth (feet bgs)	Sample Date	Soil Type	Nearest Well	DTW Range	Below DTW																		
SB135-19	19	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	ND	ND	ND	ND	1,100	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB135-21	21	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	ND	ND	ND	ND	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB136-19	19	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	ND	ND	ND	ND	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB136-21	21	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	ND	ND	ND	ND	450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB137-18	18	12/22/14	Clay	MW-114S	8.54 to 10.01	Yes	ND	ND	ND	ND	ND	ND	ND	670	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB137-20.5	20.5	12/22/14	Clay	MW-114S	8.54 to 10.01	Yes	ND	ND	ND	ND	ND	ND	ND	290	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB138-15	15	01/16/19	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	470	ND	ND	ND	ND	22	ND	ND	ND	ND	174
SB138-18	18	01/16/19	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	550	13	ND	ND	ND	26	ND	ND	ND	ND	121
SB139-16	16	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	136	ND	ND	1,800	ND	ND	ND	ND	230	ND	ND	ND	ND	1,800
DUP-1	(SB139-16)	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	1,000	ND	ND	ND	ND	210	ND	ND	ND	ND	1,750
SB139-18	18	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	430	20	ND	ND	ND	90	63	8,850	200	ND	ND	ND	32	ND	ND	ND	ND	180
SB140-16	16	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	2,300	ND	ND	ND	ND	3,500	ND	ND	ND	ND	260	ND	ND	ND	ND	1,800
SB140-19	19	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	30	ND	ND	ND	12	155
SB141-16	16	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	27	ND	ND	ND	ND	161
SB141-18	18	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	ND	ND	ND	ND	2,900	ND	ND	ND	ND	25	ND	ND	ND	ND	170
SB141-19	19	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	360	ND	ND	ND	ND	ND	ND	860	ND	ND	ND	ND	26	ND	ND	ND	ND	155

Results in micrograms per kilogram (µg/Kg)

Only compounds detected are included on this summary table. See laboratory reports for additional compounds analyzed.

Footnotes are presented behind the analytical summary tables.

TABLE 2
Soil Analytical Results - VOCs and Metals
RACER - Flint West #12990

EGLE Generic Residential Cleanup Criteria							Toluene	1,2,3-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethylene (TCE)	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes, Total	Arsenic (B)	Chromium, Total (Cr VI criteria)	Copper (B)	Lead (B)	Zinc (B)
Chemical Abstract Service Number							108-88-3	87-61-6	71-55-6	79-01-6	NA	95-63-6	108-67-8	75-01-4	1330-20-7	7440-38-2	7440-47-3	7440-50-8	7439-92-1	7440-66-6
Drinking Water Protection - Residential							16,000	NA	4,000	100		2,100	1,800	40	5,600	4,600	30,000	5.8E+06	700,000	2.4E+06
Drinking Water Protection - Non-Residential							16,000	NA	4,000	100	NA	2,100	1,800	40	5,600	4,600	30,000	5.8E+06	700,000	5.0E+06
Groundwater Surface Water Interface Protection							5,400	NA	1,800	4,000 (X)	NA	570	1,100	260 (X)	980	5,800	3,300	120,000 (G)	9,100,000 (G,X)	47,000 (G)
Volatilization to Indoor Air - Non-Residential							610,000	NA	460,000	1,900	NA	8.0E+06	4.8E+06	2,800	1.2E+07	NLV	NLV	NLV	NLV	NLV
Volatilization to Ambient Air - Non-Residential							3.6E+07	NA	4.5E+06	14,000	NA	6.0E+08	4.6E+08	29,000	1.3E+08	NLV	NLV	NLV	NLV	NLV
Particulate Soil Inhalation - Residential							2.7E+10	NA	6.7E+10	1.3E+08	NA	8.2E+10	8.2E+10	3.5E+08	2.9E+11	720,000	260,000	1.3E+08	1.0E+08	ID
Particulate Soil Inhalation - Non-Residential							1.2E+10	NA	2.9E+10	5.9E+07	NA	3.6E+10	3.6E+10	8.9E+08	1.3E+11	910,000	240,000	5.9E+07	4.4E+07	ID
Direct Contact - Residential							5.0E+07	NA	5.0E+8 (C)	110,000 (DD)	NA	3.2E+07	3.2E+07	3,800	4.1E+08	7,600	2.5E+06	2.0E+07	400,000	1.7E+08
Direct Contact - Non-Residential							1.6E+08	NA	1.0E+9 (C,D)	660,000 (DD,C)	NA	1.0E+08	1.0E+8 C	34,000	1.0E+09	37,000	9.2E+06	7.3E+07	900,000 (DD)	6.3E+08
Soil Saturation Concentration Screening Level							250,000	NA	460,000	500,000	NA	110,000	94,000	490,000	150,000	NA	NA	NA	NA	NA
Statewide Default Background Levels							NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	18,000	32,000	21,000	47,000
Sample ID	Sample Depth (feet bgs)	Sample Date	Soil Type	Nearest Well	DTW Range	Below DTW														
SB-122	15-16	04/30/13	Clay			Yes	ND	ND	ND	14,400	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB-123	5-6	04/30/13	Clay	MW-102S	10.2 to 13.70	No	ND	ND	ND	41	42	37	29	ND	39	NA	NA	NA	NA	NA
SB124-4	4	04/21/14	Sand, Silty	MW-102S	10.2 to 13.70	No	11	ND	ND	ND	ND	ND	ND	ND	ND	1,130	1,220	1,700	2,510	4,600
SB124-10	10	04/21/14	Sand, Silty	MW-102S	10.2 to 13.70	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,100	1,460	2,300	0	5,100
SB124-21	21	04/21/14	Clay	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	1,420	ND	ND	ND	ND	ND	1,830	3,350	8,200	7,580	19,000
SB125-4	4	04/21/14	Sand	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	570	2,050	7,400	13,800	11,400
SB125-13	13	04/21/14	Clayey Sand	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,440	3,260	6,100	5,100	12,200
SB125-19	19	04/21/14	Clay	MW-112S	14.77 to 17.62	Yes	ND	ND	11	3,650	ND	ND	ND	23	ND	1,410	4,240	11,400	8,590	20,800
SB126-4	4	04/21/14	Sand, Silty	MW-111S	9.12 to 12.33	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,300	1,220	3,400	2,280	5,900
SB126-11	11	04/21/14	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,250	2,920	3,100	3,790	8,600
SB126-15	15	04/21/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,180	2,870	5,600	5,470	14,700
SB127-4	4	04/21/14	Sand, Silty	MW-116S	16.97 to 18.23	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	410	1,980	1,600	4,710	3,700
SB127-8	8	04/21/14	Sand, Silty	MW-116S	16.97 to 18.23	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,630	2,560	3,000	5,740	10,300
SB127-15	15	04/21/14	Clayey Sand	MW-116S	16.97 to 18.23	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,060	4,540	5,800	7,330	20,300
SB127-20	20	04/21/14	Sand	MW-116S	16.97 to 18.23	Yes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,780	610	1,200	950	2,400
SB128-3	3	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	1,460	3,900	6,250	6,000
SB128-7	7	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	14	ND	ND	ND	ND	1,550	2,860	5,600	11,400	13,200
SB128-10	10	04/21/14	Clay	MW-112S	14.77 to 17.62	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,150	5,890	5,300	6,950	9,900
SB129-4	4	04/22/14	Sand, Silty	MW-102S	10.2 to 13.70	No	13	ND	ND	ND	ND	14	ND	ND	21	2,790	2,550	13,000	104,000	21,300
SB129-8	8	04/22/14	Clay	MW-102S	10.2 to 13.70	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,740	4,080	3,600	6,100	13,100
SB129-18	18	04/22/14	Clay	MW-102S	10.2 to 13.70	Yes	19	ND	33	6,170	ND	ND	ND	ND	ND	1,460	4,730	7,200	7,420	19,200
SB130-4	4	04/22/14	Sand	MW-111S	9.12 to 12.33	No	31	ND	ND	ND	13	24		ND	92	3,580	3,090	17,700	123,000	51,800
SB130-10	10	04/22/14	Sand	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,700	1,150	1,700	2,110	5,800
SB130-18	18	04/22/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	6,080	ND	ND	ND	73	ND	1,980	2,770	9,800	6,510	18,000
SB131-4	4	04/22/14	Sand, Silty	MW-111S	9.12 to 12.33	No	45	ND	ND	28	12	22		ND	91	1,630	1,640	8,500	36,400	16,800
SB131-10	10	04/22/14	Clay	MW-111S	9.12 to 12.33	No	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,300	2,800	3,100	4,740	13,600
SB131-18	18	04/22/14	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	12,160	ND	ND	ND	90	ND	2,080	2,620	7,900	6,020	18,600
SB132-12	12	07/10/14	Clay, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	29,500	ND	ND	ND	180	ND	NA	NA	NA	NA	NA
SB132-15	15	07/10/14	BR, Shale	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	13,700	ND	ND	ND	89	ND	NA	NA	NA	NA	NA
SB133-17	17	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	25	11,680	ND	ND	ND	46	ND	NA	NA	NA	NA	NA
SB133-19	19	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	35	10,860	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB133-20	20	07/10/14	Clay, Silty	MW-102S	10.2 to 13.70	Yes	ND	ND	18	7,520	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB134-18	18	12/22/14	Clay, Silty	MW-110S	8.56 to 10.26	Yes	70	ND	ND	ND	ND	ND	ND	ND	85	380	NA	4,500	5,690	5,900
SB134-20	20	12/22/14	Clay, Silty	MW-110S	8.56 to 10.26	Yes	ND	ND	ND	2,040	ND	ND	ND	ND	ND	1,690	NA	3,000	3,380	19,500

TABLE 2
Soil Analytical Results - VOCs and Metals
RACER - Flint West #12990

EGLE Generic Residential Cleanup Criteria							Toluene	1,2,3-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethylene (TCE)	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes, Total	Arsenic (B)	Chromium, Total (Cr VI criteria)	Copper (B)	Lead (B)	Zinc (B)
Chemical Abstract Service Number							108-88-3	87-61-6	71-55-6	79-01-6	NA	95-63-6	108-67-8	75-01-4	1330-20-7	7440-38-2	7440-47-3	7440-50-8	7439-92-1	7440-66-6
Drinking Water Protection - Residential							16,000	NA	4,000	100		2,100	1,800	40	5,600	4,600	30,000	5.8E+06	700,000	2.4E+06
Drinking Water Protection - Non-Residential							16,000	NA	4,000	100	NA	2,100	1,800	40	5,600	4,600	30,000	5.8E+06	700,000	5.0E+06
Groundwater Surface Water Interface Protection							5,400	NA	1,800	4,000 (X)	NA	570	1,100	260 (X)	980	5,800	3,300	120,000 (G)	9,100,000 (G,X)	47,000 (G)
Volatilization to Indoor Air - Non-Residential							610,000	NA	460,000	1,900	NA	8.0E+06	4.8E+06	2,800	1.2E+07	NLV	NLV	NLV	NLV	NLV
Volatilization to Ambient Air - Non-Residential							3.6E+07	NA	4.5E+06	14,000	NA	6.0E+08	4.6E+08	29,000	1.3E+08	NLV	NLV	NLV	NLV	NLV
Particulate Soil Inhalation - Residential							2.7E+10	NA	6.7E+10	1.3E+08	NA	8.2E+10	8.2E+10	3.5E+08	2.9E+11	720,000	260,000	1.3E+08	1.0E+08	ID
Particulate Soil Inhalation - Non-Residential							1.2E+10	NA	2.9E+10	5.9E+07	NA	3.6E+10	3.6E+10	8.9E+08	1.3E+11	910,000	240,000	5.9E+07	4.4E+07	ID
Direct Contact - Residential							5.0E+07	NA	5.0E+8 (C)	110,000 (DD)	NA	3.2E+07	3.2E+07	3,800	4.1E+08	7,600	2.5E+06	2.0E+07	400,000	1.7E+08
Direct Contact - Non-Residential							1.6E+08	NA	1.0E+9 (C,D)	660,000 (DD,C)	NA	1.0E+08	1.0E+8 C	34,000	1.0E+09	37,000	9.2E+06	7.3E+07	900,000 (DD)	6.3E+08
Soil Saturation Concentration Screening Level							250,000	NA	460,000	500,000	NA	110,000	94,000	490,000	150,000	NA	NA	NA	NA	NA
Statewide Default Background Levels							NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	18,000	32,000	21,000	47,000
Sample ID	Sample Depth (feet bgs)	Sample Date	Soil Type	Nearest Well	DTW Range	Below DTW														
SB135-19	19	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	7,890	ND	ND	ND	14	ND	1,900	NA	4,000	2,850	17,500
SB135-21	21	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	9	6,540	ND	ND	ND	ND	ND	2,080	NA	3,900	2,890	15,300
SB136-19	19	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	13	8,760	ND	ND	ND	ND	ND	1,870	NA	4,600	3,060	13,600
SB136-21	21	12/22/14	Clay	MW-113S	9.28 to 11.10	Yes	ND	ND	ND	9,390	ND	ND	ND	ND	ND	3,350	NA	4,300	3,740	18,800
SB137-18	18	12/22/14	Clay	MW-114S	8.54 to 10.01	Yes	ND	ND	21	4,250	ND	ND	ND	ND	ND	1,660	NA	4,200	2,810	13,500
SB137-20.5	20.5	12/22/14	Clay	MW-114S	8.54 to 10.01	Yes	ND	ND	ND	ND	ND	ND	ND	56	ND	3,040	NA	4,500	3,240	27,300
SB138-15	15	01/16/19	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	2,880	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB138-18	18	01/16/19	Sand, Silty	MW-111S	9.12 to 12.33	Yes	ND	ND	7	2,300	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB139-16	16	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	21,000	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
DUP-1	(SB139-16)	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	16,300	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB139-18	18	01/16/19	Clay	MW-111S	9.12 to 12.33	Yes	ND	ND	ND	3,440	ND	ND	ND	42	ND	NA	NA	NA	NA	NA
SB140-16	16	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	130	ND	13,100	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB140-19	19	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	15	2,870	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB141-16	16	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	180	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB141-18	18	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	6,150	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
SB141-19	19	01/16/19	Sand	MW-102S	10.2 to 13.70	Yes	ND	ND	ND	3,370	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA

Results in micrograms per kilogram (µg/Kg)

Only compounds detected are included on this summary table. See laboratory reports for additional compounds analyzed.

Footnotes are presented behind the analytical summary tables.

Footnotes: Analytical Results Table

Format	Indicates
--------	-----------

DW - Drinking Water Residential Generic Criteria.

GSI - Groundwater Surface Water Interface Generic Criteria per MDEQ Surface Water Division Rule 57.

	Blank cells indicate no detectable concentrations Exceeds DW criteria
X	Exceeds DW criteria
X	Exceeds GSI criteria
X	Exceeds both DW and GSI criteria
NC	Insufficient data to develop criterion/no criterion
G	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River

Double Underline Concentration exceeding Direct Contact RBSLs.

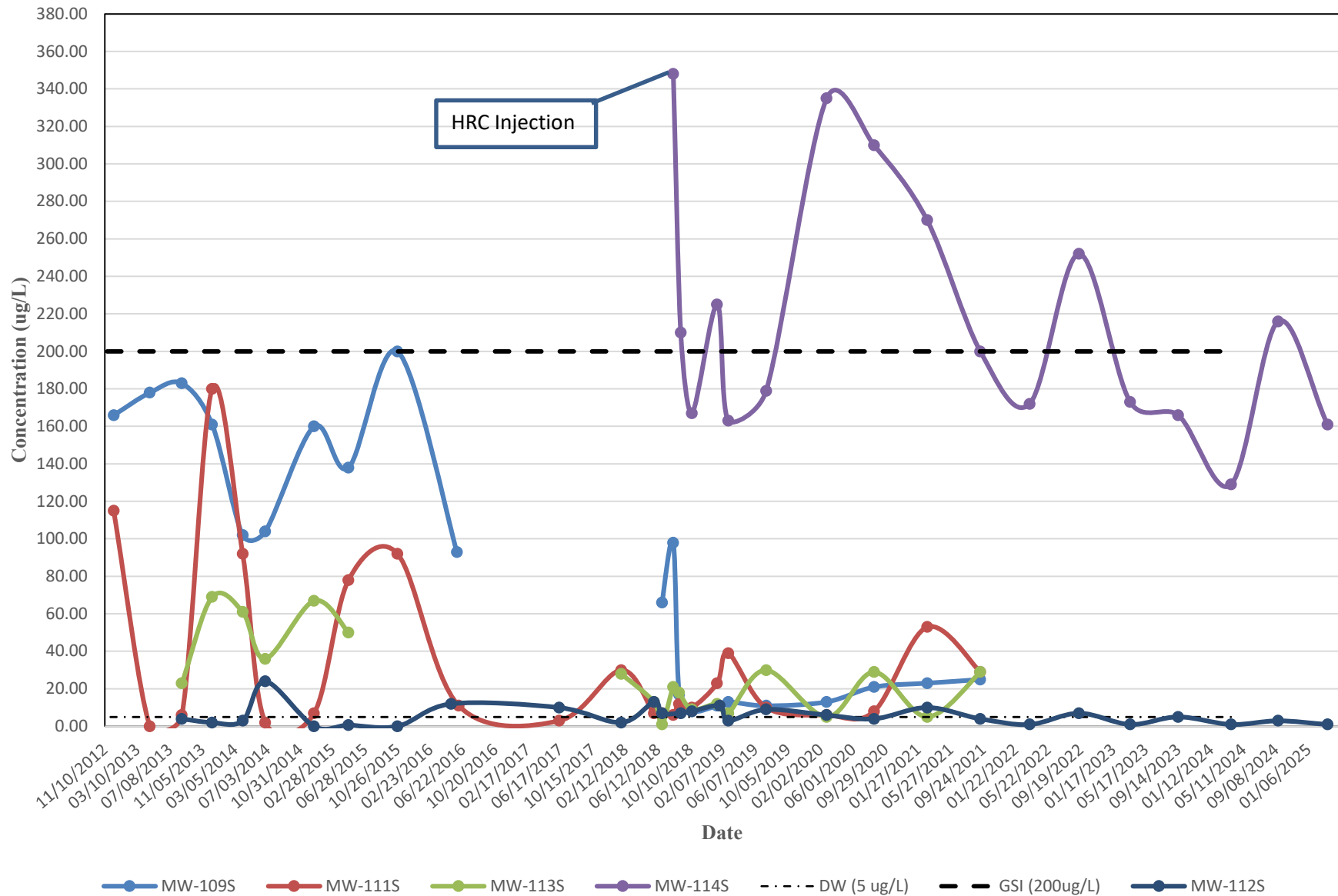
Red text Detected concentration greater than the Residential or Non-Residential Indoor Air Inhalation RBSL.

Code	Definition
------	------------

TOC	Top of Casing Elevation
DT NAPL	Depth to Non-Aqueous Phase Liquid (NAPL)
DTW	Depth to Water
GW Elev.	Groundwater Elevation
bgs	below ground surface
ND	Not Detected
NA	Not submitted for Analyses, or Not Applicable
NS	Not Sampled on this date
NM	Not Measured/Well Inaccessible

**Alpha notation refer to MDEQ Footnotes for the Part 213 Risk-Based Screening Levels, Part 201 Administrative Rule R 299.49.

TCE in MW-109S, MW-111S, MW-112S, MW-113S, MW-114S (downgradient wells)





Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

Low-Flow Test Report:

Test Date / Time: 3/18/2025 10:16:26 AM
Project: 11-4317-102
Operator Name: AE

Location Name: MW-112S	Pump Type: Peristaltic Tubing Type: Poly Flow Cell Volume: 130 ml	Instrument Used: Aqua TROLL 500 Serial Number: 821578
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 3	+/- 10 %	+/- 10	+/- 10	+/- 10	+/- 3
3/18/2025 10:16 AM	00:00	7.30 pH	28.51 °C	0.17 µS/cm	2.59 mg/L	302.81 NTU	22.1 mV	
3/18/2025 10:19 AM	03:00	7.24 pH	27.03 °C	317.89 µS/cm	1.99 mg/L	469.33 NTU	58.4 mV	
3/18/2025 10:22 AM	06:00	7.25 pH	26.99 °C	314.70 µS/cm	1.50 mg/L	474.94 NTU	73.6 mV	
3/18/2025 10:25 AM	09:00	7.24 pH	26.94 °C	314.41 µS/cm	1.54 mg/L	432.59 NTU	81.9 mV	
3/18/2025 10:28 AM	12:00	7.24 pH	26.97 °C	316.72 µS/cm	1.46 mg/L	397.03 NTU	83.0 mV	
3/18/2025 10:31 AM	15:00	7.24 pH	27.05 °C	312.01 µS/cm	1.20 mg/L	340.88 NTU	59.1 mV	
3/18/2025 10:34 AM	18:00	7.23 pH	27.01 °C	312.68 µS/cm	0.75 mg/L	333.83 NTU	15.5 mV	
3/18/2025 10:37 AM	21:00	7.23 pH	27.11 °C	311.94 µS/cm	0.70 mg/L	344.93 NTU	-10.5 mV	
3/18/2025 10:40 AM	24:00	7.22 pH	27.14 °C	322.58 µS/cm	0.96 mg/L	263.75 NTU	-22.9 mV	
3/18/2025 10:43 AM	27:00	7.21 pH	27.21 °C	323.89 µS/cm	0.65 mg/L	292.52 NTU	-28.6 mV	
3/18/2025 10:46 AM	30:00	7.20 pH	27.30 °C	326.99 µS/cm	0.69 mg/L	256.69 NTU	-31.2 mV	

Samples

Sample ID:	Description:
MW-112S	



Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

**LABORATORY DATA VALIDATION
MARCH 2025 BIENNIAL GROUNDWATER
SAMPLING EVENT**

**RACER Trust
Flint West Industrial Land (#12990)
Glenwood Avenue and Stevenson Street
Flint, Michigan**

May 27, 2025
Project # 11-4317-102

Applied EcoSystems, Inc.
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810) 715-2525 Fax: (810) 715-2526
www.AppliedEcoSystems.com

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Figure 1: Site Location Map

Figure 2: Site Map with Sample Locations

Appendix B	Tables
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Table 1: Sample Collection and Analysis Summary

Table 2: Sample Analytical Results

Table 3: Analytical Methods and Holding Time Criteria

Table 4: Qualified Sample Results Due to Outlying MS/MSD Results

Table 5: Field Sample Duplicate Results and Relative Percent Differences (RPD)

Appendix C	Laboratory Reports
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Laboratory Analytical Reports

Laboratory Quality Control Reports

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Acronyms and Abbreviations

Æ	Applied EcoSystems, Inc.
ASTM International (ASTM)	
AAI	All Appropriate Inquiry
BER	Business Environmental Risk
CREC	Controlled Recognized Environmental Condition
DMC	De Minimis Condition(s)
ESA	Environmental Site Assessment
HREC	Historical Recognized Environmental Condition
PEC	Potential Environmental Concern
REC	Recognized Environmental Condition
VEC	Vapor Encroachment Condition
Buildings, Structures, and Materials	
ACBM	Asbestos Containing Building Material
ACM	Asbestos Containing Materials
AST	Aboveground Storage Tank
HVAC	Heating, Ventilation, and Air Conditioning Systems
LUST	Leaking Underground Storage Tank
ROW	Right-of-Way
UST	Underground Storage Tank
Federal Agencies	
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
NRCS	Natural Resources Conservation Service
OSHA	Occupational Health and Safety Administration
SBA	Small Business Administration
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
Federal Environmental Regulations, Programs, and Databases	
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	CERCLA Information System
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CORRACTS	Resource Conservation and Recovery Act Corrective Action
CWA	Clean Water Act
ERNS	Emergency Response Notification System
FOIA	Freedom of Information Act
LQG	Large Quantity Generator
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFRAP	No Further Remedial Action Planned
NPL	National Priority List
NRCS	Natural Resources Conservation Service
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SEMS	Superfund Enterprise Management System
SQG	Small Quantity Generator
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage and Disposal Facility

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Hazardous Substances and Petroleum Products	
BTEX	Benzene, Toluene, Ethyl Benzene, Xylenes
CVOCs	Chlorinated Volatile Organic Compounds
MTBE	Methyl Tertiary Butyl Ether
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene, Tetrachloroethylene, Perchloroethene, Perchloroethylene, PERC
PFAS	Per- and Polyfluoroalkyl Substances, including PFOS, PFOA, and GenX
PNAs	Polynuclear Aromatics - also known as Polycyclic Aromatic Hydrocarbons (PAHs)
SVOCs	Semi-Volatile Organic Compounds
TCE	Trichloroethene, Trichloroethylene
TMBs	Trimethylbenzenes
VOCs	Volatile Organic Compounds
Mapping, Instruments and Units of Measurement	
bgs	Below Ground Surface
GIS	Geographic Information System
msl	Mean Sea Level
PID	Photoionization Detector
ppb	Parts Per Billion
ppb(v)	Parts Per Billion by Volume
ppm	Parts Per Million
ppm(v)	Parts Per Million by Volume
T/R/S	Township, Range, Section
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
ng/Kg	Nanograms per Kilogram
ng/L	Nanograms per Liter
Michigan-Specific	
BEA	Baseline Environmental Assessment
DDCC	Documentation of Due Care Compliance
ResAP	Response Activity Plan
NREPA	Natural Resources and Environmental Protection Act
EGLE	Michigan Department of Environment, Great Lakes and Energy and its predecessors below:
MDEQ	Michigan Department of Environmental Quality
MDNRE	Michigan Department of Natural Resources and Environment
MDNR	Michigan Department of Natural Resources
LARA	Michigan Department of Licensing and Regulatory Affairs
GRCC	Generic Residential Cleanup Criteria (or Criterion)
DW/DWP	Drinking Water/Drinking Water Protection
DC	Direct Contact
F/E	Flammability/Explosivity Limit
GSI/GSIP	Groundwater to Surface Water Interface/Groundwater to Surface Water Interface Protection
PI	Particulate Inhalation
VIA	Volatilization to Indoor Air
VOA	Volatilization to Outdoor Air
MI 10 Metals	Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Selenium, Silver, and Zinc
LGP	Leaded Gasoline Indicator Parameters (includes BTEX, TMBs and other compounds)
ULGP	Unleaded Gasoline Indicator Parameters (includes BTEX, MTBE, TMBs and other compounds)
VIAP	Volatilization to Indoor Air Pathway

1. INTRODUCTION

Applied EcoSystems, Inc. (Æ) was retained to conduct a validation review of the laboratory analytical data collected in support of the March 2025 bi-annual groundwater sampling event at the RACER Flint West #12990 Site in the City of Flint, Michigan. The sampling was performed in accordance with the requirements of the September 29, 2011 RCRA Administrative Order on Consent between the U.S. Environmental Protection Agency (USEPA) and RACER for the Flint West Site; and the Laboratory Data Validation was performed as part of the requirements of the April 1, 2021 project Quality Assurance Project Plan (QAPP).

Groundwater samples were submitted to Merit Laboratories, Inc., of East Lansing, Michigan. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. Samples were prepared at the laboratory in accordance with their standard operating procedures for groundwater processing. A summary of the analytical methodology is presented in Table 3.

Standard report deliverables were submitted by the laboratory to Æ. The final results and supporting quality assurance/quality control (QA/QC) data were assessed by Æ, as documented herein. Data evaluation was based on information obtained from the chain of custody forms, field notes, finished report forms, method blank data, duplicate data, and recovery data from surrogate spikes and laboratory control spikes (LCS) and matrix spikes (MS)/matrix spike duplicates (MSD).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods reference in Table 3 in the April 1, 2021 project QAPP and in applicable guidance documents (hereafter identified as “Guidelines”), including:

- Michigan Department of Environment, Great Lakes, and Energy (EGLE) *Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Minimum Laboratory Analyte List*, updated March 8, 2021;
- Michigan Department of Environmental Quality (MDEQ), now EGLE, *Application of Target Detection Limits and Designated Analytical Methods*, dated March 2016 and modified April 2024;
- MDEQ, *General PFAS Sampling Guidance*, revised January 2024;
- USEPA, Superfund Contract Laboratory Program, National Functional Guidelines for Organic Superfund Methods Data Review (SOM02.4), EPA-540-R-2017-002, dated January 2017;
- USEPA, Superfund Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Methods Data Review (ISM02.4), EPA-540-R-2017-001, January 2017;
- USEPA, PFAS Methods and Guidance for Sampling and Analyzing Water and Other Environmental Media-Technical Brief, EPA/600/F-17-022h; and
- USEPA, Region 9, Laboratory Data Review for the Non-Chemist, dated October 2014.

2. LABORATORY DELIVERABLES

Two (2) laboratory reports were received from Merit Laboratories for chains-of-custody prepared for groundwater samples collected by Æ on March 18, 2025 – one for analysis of VOCs and dissolved and total metals (arsenic, chromium, chromium-hexavalent, copper, lead, selenium, and zinc) and one for analysis of PFAS. All laboratory reports were identified as Merit Laboratories' Level II deliverables, appropriate under USEPA guidelines for desktop review. Raw laboratory data (including GC/MS scans, instrument calibration data, etc.) were not included in the deliverables.

Deliverables included the Merit Laboratories Analytical Laboratory Reports and Quality Control Reports IDs listed following and included in Appendix B of the 2025 Data Report (referenced in Appendix C of this report):

S72498.01,
S72500.01,
QC-S72498-01, and
QC-S72500-01.

3. DESKTOP LABORATORY DATA REVIEW

Deliverables were reviewed to verify that the following reporting information was documented fully. Where concerns were identified, limitations on data validity were evaluated based on the identified concerns.

All Analytical Laboratory Report cover sheets were signed by Maya Murshak, Technical Director of Merit Laboratories, Inc.

All Quality Control Report cover sheets were signed by Barbara Ball, Quality Assurance Manager of Merit Laboratories, Inc.

3.1 Case Narratives

The case narrative typically is a short summary statement about the analyses that commonly documents any significant concerns with the condition of received samples, analytical problems, or QA/QC concerns. All deliverables identified no conditions warranting narrative beyond general laboratory reporting information.

3.2 Laboratory Accreditation/Certification Information

The following laboratory certifications were identified on each Analytical Laboratory Report:

Authority	Certification/Accreditation ID
Michigan DEQ (EGLE)	#9956
DOD ELAP/ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Details of laboratory certifications and accreditations are appended to the Project QAPP.

3.3 Laboratory Contact Information

Each Analytical Laboratory Report identifies the following laboratory contact information:

Merit Laboratories, Inc., 2680 East Lansing Drive, East Lansing, MI 48823
Phone: (517) 332-0167 Fax: (517) 332-6333

Contacts for Report questions:

John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

3.4 Times Samples Collected, Received, Prepared, and Analyzed

Sample collection dates and times were tabulated in the Sample Summary of each Analytical Laboratory Report, identified in the header of each sample data report, and written on the chain of custody appended to each Report.

Times and dates of sample receipt were documented on the chain of custody appended to each Report but were not documented in the Sample Container/Preservation/Temperature summary for each sample data report.

Times and dates of sample extraction and preparation were documented in the Extraction/Prep. Summary for each sample data report.

Dates and times of sample analyses for each analytical method were documented in each sample data report.

No deviations from Guidelines were identified.

3.5 Laboratory Analytical Methods

Laboratory analytical methods were summarized in the Method Summary of each Analytical Laboratory Report and for each analyte group documented in each sample data report. Analytical methods used for this project were as follow:

Method	Version	Analytes
E200.8	EPA Method 200.8 Revision 5.4	Arsenic, chromium, copper, lead, selenium, zinc
SM3500-Cr B	Standard Method 3500 Cr B 2020	Chromium VI
SW3015A	SW 846 Method 3015A Revision 1 February 2007	Metals digestion
SW5030C/8260C	SW 846 8260C Revision 3 August 2006 5030C Revision 3 May 2003	VOCs
ASTMD7979-19M	ASTM Method D7979-19 Modified (Isotopic Dilution)	PFAS, EGLE 28 Parameters

3.6 Analyte Reporting

Analytes were reported to significant figures established by Method Detection Limits (MDLs).

Results not detected at or above the laboratory's MDL and Reporting Limit (RL) were identified as "Not Detected."

The laboratory reports identified detected results down to the laboratory's MDL for each analyte adjusted for specific sample dilutions, weights, and volumes. For metals, positive analyte detections less than the RL but greater than the MDL were indicated by "b" in Merit Analytical Laboratory Reports. For organic analytes, positive analyte detections less than the RL but greater than the MDL were qualified as estimates, indicated by "J" in Merit Analytical Laboratory Reports unless qualified otherwise in this report.

3.7 Holding Times and Sample Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

The samples were properly preserved, delivered on ice, and received and stored at the laboratory at the required temperature (0-6° Celsius). Acid-preserved samples for total metals analysis were received at pH levels less than 2. Samples for dissolved metals analysis (including chromium VI) were filtered and preserved in the laboratory immediately upon receipt at the laboratory to limit potential for metals to be deposited to or leached from suspended solids in the samples. Laboratory filtration was documented on Analytical Laboratory Reports and on the Login Checklist.

3.8 Units of Measurement

Units of measurement are identified on each sample report of the Analytical Laboratory Reports. Units for each analyte group are as follow:

Analyte Group	Units
Metals (including Cr VI)	milligrams per liter (mg/L)
VOCs	micrograms per liter (µg/L)
PFAS	nanograms per liter (ng/L)

Individual tables in project reports may identify concentrations equivalently in different units of measurement. Table 2 of this report identifies metals concentrations (including Cr VI) in micrograms per liter (µg/L) and identifies PFAS compounds in nanograms per liter (ng/L).

3.9 Detection/Reporting Limits

Each sample report of the Analytical Laboratory Reports individually tabulates the sample analytical result, Reporting Limit (RL), Method Detection Limit (MDL), and dilution factor. On Table 2, analytical results less than MDLs are identified as less than (<) the specified RL. Concentrations detected less than the RL but greater than the MDL are identified as the detected concentration qualified with a “b” flag, and estimated concentrations less than RL but greater than MDL are qualified with a “J” flag in the Merit Laboratory Analytical Reports.

3.10 Data Qualifiers

The Analytical Laboratory Reports tabulate the following qualifying flags:

Qualifier/Flag	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard

Qualifier/Flag	Description
J	Estimated value less than reporting limit, but greater than MDLL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory, with separately attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
c	Filtered in lab
e	Reported value estimated due to interference
f	Filtered and preserved in lab
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Of these qualifiers, the following were determined to be applicable to one or more sample laboratory results in Table 2:

Qualifier/Flag	Applicable Samples
J	MW-MS103S – Benzene, Toluene MW-MS103S, MW-MSD103S – Acetone, Tetrahydrofuran MW-103S – PFBS, PFOA MW-108S, DUP1-1 – Chloroform DUP1-1 - PFOA DUP1-1, MW-110S – Trichloroethene MW-110S - PFBS MW-112S – 1,1-Dichloroethane, cis-1,2-Dichloroethene, PFBS, PFOA MW-114S – 1,1-Dichloroethane, trans-1,2-Dichloroethene, 1,1,1-Trichloroethane, PFBA, PFPeA. PFBS, PFOA, PFHxS, PFHxS-LN
b	Total Total Arsenic – MW-112S Total Chromium – MW-103S, MS-108S (DUP1-1), MW-110S Dissolved Chromium – MW-114S Total Copper – MW-108S (DUP1-1), MW-110S Dissolved Copper – MW-114S Dissolved Lead – MW-110S
c	FB-1, MW-103S (MW-MS103S, MW-MSD103S), MW-108S (DUP1-1), MW-110S, MW-112S – Dissolved Chromium VI MW-108S (DUP1-1) – Total Chromium VI
f	FB-1, MW-103S (MW-MS103S, MW-MSD103S), MW-108S (DUP1-1), MW-110S, MW-112S, MW-114S - Dissolved Arsenic, Chromium, Copper, Lead, Selenium, and Zinc

The qualifiers should be used by all data users to understand and appropriately apply the data.

3.11 Surrogate Recoveries

Surrogates are chemicals similar to the target analyte(s) in chemical composition and behavior that are not expected to be present in the sample(s). Surrogates are added to all environmental samples, blanks, and other QC samples in an analytical batch during the preparation stage for some organic analyses (including VOCs and PFAS in the subject laboratory analytical reports). Surrogates monitor analytical performance, especially extraction efficiency, purging efficiency (for volatiles), and possible matrix effects that MS/MSD spikes, which are added only to one sample per batch, cannot.

All surrogate recoveries identified in the laboratory analytical reports were within the percent recovery and allowable range listed for each surrogate compound.

3.12 Blank Analyses

Blanks are designated to measure cross-contamination in different parts of the sampling and analytical process.

3.12.1 Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All Method Blank (Trip Blank) analyses were non-detect (including PFAS).

3.12.2 Equipment Blank Analyses

Equipment blanks are designed to monitor the cleanliness of field equipment and the effectiveness of decontamination procedures if equipment is used for multiple sample collections.

For this study, laboratory equipment blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per batch.

All equipment blank analyses were non-detect (including PFAS).

3.12.3 Field Blank Analyses

Field Blanks are designated to measure cross-contamination that may occur during sample handling and transport, such as from a broken bottle in the sample ice chest.

All field blank analyses were non-detect.

Based on the field blanks, sample handling was not considered to result in detectable concentrations greater than RLs and not likely to affect sample result comparisons to cleanup criteria.

3.13 Laboratory Control Sample Spike Analyses

Laboratory Control Samples (LCS) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. LCS recoveries were assessed per the “Guidelines.” All LCS recoveries were within the control limits demonstrating acceptable analytical accuracy.

Sample / Batch	Analyte	Recovery of Internal Standard
Laboratory Control Sample (LCS) Lab Sample ID: AK250320RR.LCSD250320 / AK25032RRCHR250318-W1.MS2	Adona	Low (32.62%)

Adona was detected only in matrix spike samples.

3.14 Matrix Spike and Matrix Spike Duplicate Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, selected field samples are spiked with a known concentration of the analyte of concern and analyzed as Matrix Spike (MS)/Matrix Spike Duplicate (MSD) samples. The Relative Percent Difference (RPD) between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, or if sample is diluted five times or greater, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

MS/MSD analyses were performed as specified in Table 4.

The MS/MSD samples were spiked with analytes of interest, and the results were evaluated using the “Guidelines.” Table 4 presents the outlying matrix spike results. The associated sample data were qualified as estimated in the Merit Laboratory Analytical Reports. The remaining percent recoveries and RPD values were within the control limits criteria.

All of the matrix spikes and matrix spike duplicates were identified as falling within Control Limits, assuming a standard RPD limit of 30, except for Chromium VI and Adona. Chromium VI was not detected in any of the samples collected at the site. Adona was identified in only in the spiked samples in 103S and not in the unspiked sample, so Adona is interpreted to have been a contaminant in the sample spike. Interpretation of site conditions is not considered to have been affected.

A stricter RPD limit of 20 sometimes is applied to water samples. RPDs greater than 20 but less than 30 were identified for 2-methylnaphthalene, FHpPA (7:3 FTCA), PFNA, PFOA, and 8:2

FTSA. The VOC 2-methylnaphthalene was not detected in any of the groundwater samples from the site. PFOA was the only affected PFAS compound that was detected in groundwater samples at the site, with concentrations ranging from 1.0 to 2.3 ng/L.

The inferred associated matrix interferences were not considered to affect report conclusions.

3.15 Interferences

Interference is bias that is introduced because something in the sample interferes with the analytical system's ability to provide an accurate measurement. The interference may be physical (such as turbidity that could block light transmission in an analysis based on UV absorbance), chemical (a chemical similar to the analyte of interest may react with that analyte and affect instrument response), or spectroscopic (with the detector receiving an enhanced or suppressed signal due to an emission or absorbance by some other chemical or material in the matrix). Interferences can be possible or negative. Significant analytical interferences and their effects on the data are identified in the laboratory's case narrative.

No significant interferences were reported in the laboratory's case narratives.

3.16 Field Duplicate Sample Analyses

One field duplicate sample was collected for purposes of evaluating field QA/QC. The field duplicate sample was submitted "blind" to the laboratory, as specified in Table 1 and on chains of custody. The RPDs associated with the duplicate sample must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value for water samples.

The field duplicate results shown in Table 5 were within acceptable agreement (less than 50%), demonstrating acceptable sampling and analytical precision.

3.18 Chain-of-Custody Forms

Each Merit Analytical Laboratory Report and Quality Control Report was accompanied by a copy of the appropriately executed chain of custody.

3.19 Laboratory Sample Receipt Checklist

Each Merit Analytical Laboratory Report is accompanied by a Merit Laboratories Login Checklist that documented sample conditions on receipt, chain of custody, preservation, and bottle conditions.

All samples were identified as received via courier pickup on ice at temperatures within 2-6 degrees Celsius and transferred to appropriate refrigeration.

All chains of custody were reported to be adequately filled out, signed, and matched sample labels provided.

No requirement for subcontract laboratory analyses was identified.

All bottles were identified as appropriate and supplied by Merit, intact, filled appropriately, and submitted within holding times.

All samples were received with appropriate preservation, except:

- Samples submitted for dissolved metals (including chromium VI) analyses on chains of custody for Merit Analytical Laboratory Report S72498.01 required laboratory filtration and preservation, and the chain of custody specified such. Laboratory records indicate that samples received under the chains of custody were appropriately filtered and preserved immediately upon receipt at the laboratory.

4. FINDINGS, CONCLUSIONS, AND DATA LIMITATIONS

On March 18, 2025, AEC collected groundwater samples from five monitoring wells at the RACER Flint West Industrial Land Site using USEPA low-stress sampling protocols. One duplicate sample, one field blank, and one matrix spike and duplicate were collected. Samples were collected in appropriate laboratory-provided bottles with laboratory-provided preservatives and were maintained on ice until delivery under complete chain-of-custody protocols to Merit Laboratories within appropriate holding times. No sample condition issues were identified in the field or upon laboratory receipt. Samples were analyzed by specified standard methods for VOCs, EGLE 28 PFAS, six total and dissolved metals, and total and dissolved chromium VI. Filtration and preservation for dissolved metals (including dissolved chromium VI) were performed immediately upon laboratory receipt instead of during field collection.

Laboratory deliverables include two analytical laboratory reports, two quality control reports, and chains-of-custody for each -- one group of laboratory analytical and quality-control reports each for PFAS and for VOCs and metals. Each laboratory report contained a case narrative, laboratory accreditation/certification information, laboratory contact information, analytical methods, and analyte reporting relative to method detection limits (MDLs) and reporting limits (RLs). Data qualifiers were identified and evaluated in this Laboratory Data Validation report. No samples were extracted or analyzed beyond their holding times.

All surrogate recoveries were within their allowable ranges for each surrogate compound, indicating satisfactory laboratory performance. Analysis of laboratory blank samples identified no indications of significant cross-contamination. The equipment blank identified no detectable analytes greater than RLs. The field blank was determined to contain no detectable analytes. The trip blank was identified with no detectable analytes. Accordingly, no significant indications of cross-contamination were identified. Laboratory Control Spike (LCS) and LCS Duplicate analyses indicated the potential for PFAS Adona to be reported low; however, because that analyte was detected at the Site only in spiked samples, this condition is not considered to have affected report conclusions. Matrix spikes and their duplicates indicated potential for Chromium VI to be identified low and for the PFAS analyte ADONA to be identified with low precision; however, neither of these analytes were identified in groundwater samples collected at the Site. No significant data qualifiers were identified in relation to the detected analyte concentrations.

Based on the assessment detailed in the foregoing QA/QC summary, the laboratory data summarized in Table 2 are considered acceptable within the specific qualifications noted herein.

5. SIGNATURES

This report was prepared under the supervision of the following Environmental Professionals as defined in §312.10 of 40 CFR 312.



Michael D. Smith, Environmental Professional
Senior Technical Manager of Æ.

May 27, 2025

Date



Sandra K. Clark, Environmental Professional
President of Æ.

May 27, 2025

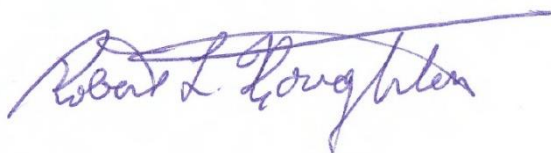
Date



Rodney Abke, CPG, LPG, Environmental Professional,
Æ Senior Geologist

May 27, 2025

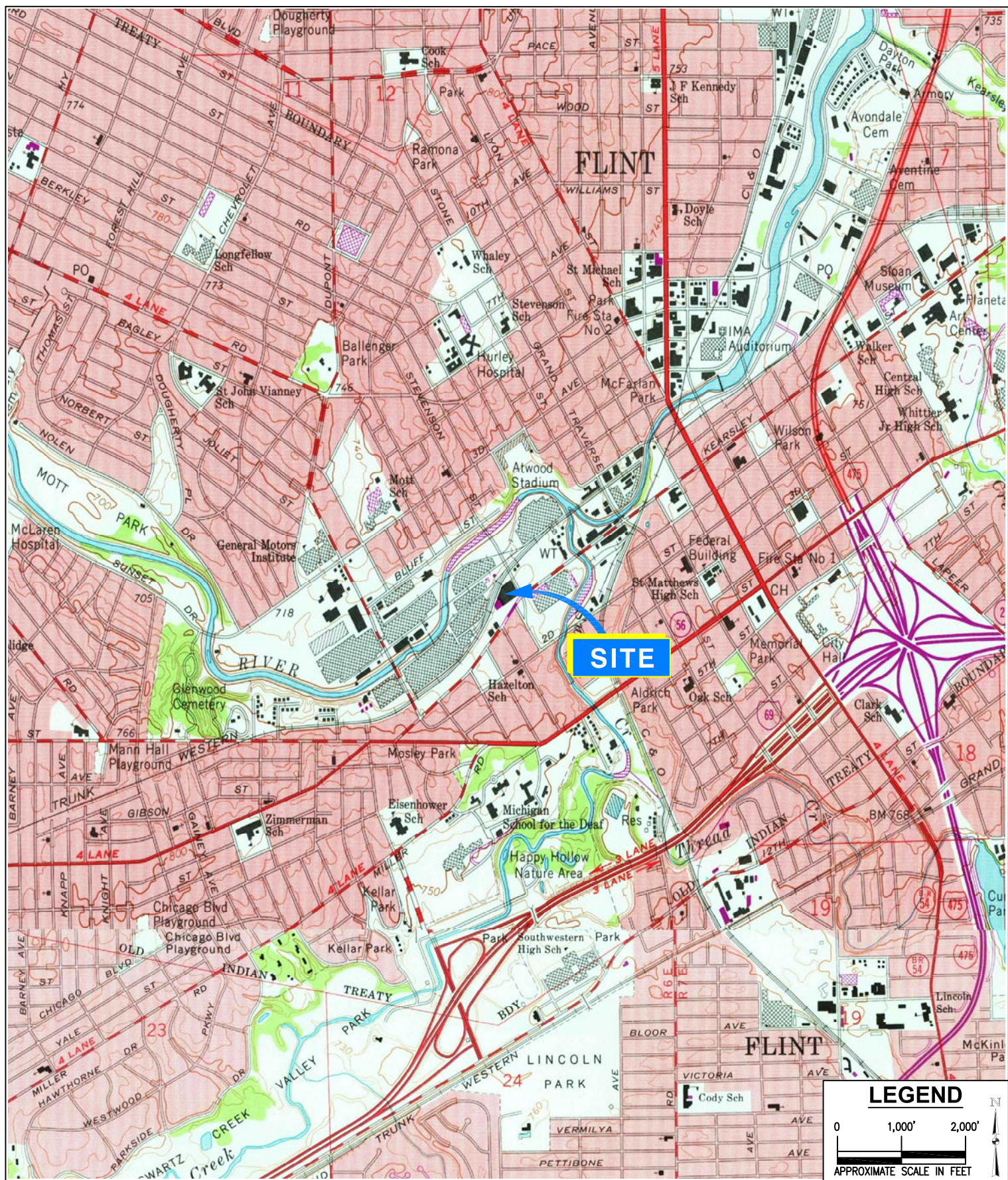
Date



Robert L. Houghton, Environmental Professional,
Æ Senior Technical Advisor,
Æ Quality Assurance Officer

May 27, 2025

Date



Applied EcoSystems, Inc.

Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: 810.715.2525; Fax: 810.715.2526

Site Location Map

RACER Flint West #12990

Glenwood Avenue & Stevenson Street
Flint, Michigan

SOURCE: USGS FLINT SOUTH QUADRANGLE
(PROVISIONAL EDITION 1975)

DRAWING DATE:

04/06/2020

CHECKED BY:

MDS

PROJECT:

11-4317-102

FIGURE:

1

Table 1
Sample Collection and Analysis Summary
March 2025 Biannual Groundwater Sampling Event

Lab Sample ID	Field Sample ID (Location)	Matrix	Collection		Analytical Parameters			
			Date (mm/dd/yyyy)	Time (hr:min)	VOCs	Total Metals	Dissolved Metals	PFAS
S72498.01	FB-1-20250318	Groundwater	03/18/2025	09:21	X	X	X	
S72498.02	Trip Blank-20250318	Groundwater	03/18/2025	15:54	X	X	X	
S72498.03	MW-112S-20250318	Groundwater	03/18/2025	10:49	X	X	X	
S72498.04	MW-103S-20250318	Groundwater	03/18/2025	12:47	X	X	X	
S72498.05	MW-MS-103S-20250318	Groundwater	03/18/2025	12:47	X	X	X	
S72498.06	MW-MSD103S-20250318	Groundwater	03/18/2025	12:47	X	X	X	
S72498.07	MW-108S-20250318	Groundwater	03/18/2025	13:41	X	X	X	
S72498.08	DUP1-1-20250318	Groundwater	03//18/2025	00:01	X	X	X	
S72498.09	MW-114S-20250318	Groundwater	03/18/2025	14:21	X	X	X	
S72498.10	MW-110S-20250318	Groundwater	03/18/2025	15:35	X	X	X	
S72498.11	EB-1-20250318	Groundwater	03/18/2025	15:59	X			
S72500.01	FB-20250318	Groundwater	03/18/2025	09:21				X
S72500.02	Trip Blank-20250318	Groundwater	03/18/2025	09:21				X
S72500.03	MW-112S-20250318	Groundwater	03/18/2025	10:49				X
S72500.04	MW-MS103S-20250318	Groundwater	03/18/2025	12:47				X
S72500.05	MW-108S-20250318	Groundwater	03/18/2025	13:41				X
S72500.06	MW-103S-20250318	Groundwater	03/18/2025	12:47				X
S72500.07	MS-MSD103S-20250318	Groundwater	03/18/2025	12:47				X
S72500.08	DUP1-1-20250318	Groundwater	03/18/2025	00:01				X
S72500.09	MW-114S-20250318	Groundwater	03/18/2025	14:21				X
S72500.10	MW-110S-20250318	Groundwater	03/18/2025	15:35				X
S72500.11	EB-1-20250318	Groundwater	03/18/2025	15:54				X

Table 2
Groundwater Analytical Results w Qualifiers
RACER - Flint West # 12990

Sample ID	MW-103S	MW-108S	MW-110S	MW-112S	MW-114S	Dupe1	FB-1	EB-1	Trip Blank	MW-103S MS	MW-103S MSD
Date Collected	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025
METALS ANALYTE (ug/L)						MW-108S					
Arsenic, Dissolved	7 f	<2 f	3 f	15 f	17 f	<2 f	<2 f	NA	NA	262 f	269
Arsenic	18	<2	3	39	244	<2	<2	NA	NA	276	287
Chromium VI, Dissolved	<20 c	<10 c	<10 c	<20 c	<10 c	<10 c	<10 c	NA	NA	<20 c	<20 c
Chromium VI	<20	<10 c	<10	<10	<10	<10 c	<10	NA	NA	<20	<20
Chromium, Dissolved	<5 f	<2 f	<5 f	<5 f	1.162 bf	<2 f	<5 f	NA	NA	272 f	281 f
Chromium	0.899 b	3.686 b	3.09 b	1.064 b	20	0.811 b	<5	NA	NA	257	267
Copper, Dissolved	<5 f	<5 f	<5 f	<5 f	0.852 bf	<5 f	<5 f	NA	NA	253 f	260 f
Copper	<5	1.149 b	2.26 b	<5	76	0.935 b	<5	NA	NA	243	250
Lead, Dissolved	<3 f	<3 f	0.768 bf	<3 f	<3 f	<3 f	<3 f	NA	NA	242 f	243 f
Lead	<3	<3	<3	<3	54	<3	<3	NA	NA	240	251
Selenium, Dissolved	<5 f	<5 f	<5 f	<5 f	<5 f	<5 f	<5 f	NA	NA	247 f	251 f
Selenium	<5	<5	<5	<5	<5	<5	<5	NA	NA	255	265
Zinc, Dissolved	<5 f	5 f	<5 f	<5 f	8 f	5 f	<5 f	NA	NA	255 f	258 f
Zinc	<5	11	<5	<5	139	14	<5	NA	NA	254	256
VOC ANALYTE (ug/L)						MW-108S					
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	48.9 J	50 J
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2	<2	51	52
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	46	48
Benzene	0.31 J	<1	<1	<1	<1	<1	<1	<1	<1	53	52
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	49	51
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	50	50
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	50	49
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	52
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	50	50
Carbon tetrachloride	<1	2	<1	<1	<1	2	<1	<1	<1	54	53
Chlorobenzene	2	<1	<1	<1	<1	<1	<1	<1	<1	55	53
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	51	50
Chloroform	<1	0.76 J	<1	<1	<1	0.76 J	<1	<1	<1	51	51
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	49	49
1,1-Dichloroethane	<1	<1	<1	0.37 J	1	<1	<1	<1	<1	52	51
1,1-Dichloroethene	<1	<1	<1	<1	0.62 J	<1	<1	<1	<1	52	53
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	52	54
1,2-Dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	53
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52

Table 2
Groundwater Analytical Results w Qualifiers
RACER - Flint West # 12990

Sample ID	MW-103S	MW-108S	MW-110S	MW-112S	MW-114S	Dupe1	FB-1	EB-1	Trip Blank	MW-103S MS	MW-103S MSD
Date Collected	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025
VOC ANALYTE (ug/L)	MW-108S										
cis-1,2-Dichloroethene	<1	<1	<1	0.76 J	38	<1	<1	<1	<1	51	51
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	51
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	53	52
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	51	51
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	42	42
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	51	54
trans-1,2-Dichloroethene	<1	<1	<1	<1	0.43 J	<1	<1	<1	<1	52	51
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1	<1	41	39
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	54	52
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50	50	51
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	48	48
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	53	52
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	54	52
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	47	61
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50	<50	<50	<50	51	51
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	48	49
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	50	51
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	50	51
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	51	58
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	51
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	54	52
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	54	53
1,1,1-Trichloroethane	<1	<1	<1	<1	0.72 J	<1	<1	<1	<1	52	52
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	53
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	52
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	49	54
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	52
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	50	50
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	49	53
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	52
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	53	51
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	52	50
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90	<90	48.6 J	49 J
Toluene	0.13 J	<1	<1	<1	<1	<1	<1	<1	<1	53	52
Trichloroethene	<1	<1	0.37 J	1	161	0.16 J	<1	<1	<1	52	51
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	50	48
Vinyl chloride	<1	<1	<1	<1	2	<1	<1	<1	<1	50	50
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	54	52
p,m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	108	103
Xylenes, Total	<3	<3	<3	<3	<3	<3	<3	<3	<3	162	155

Table 2
Groundwater Analytical Results w Qualifiers
RACER - Flint West # 12990

Sample ID	MW-103S	MW-108S	MW-110S	MW-112S	MW-114S	Dupe1	FB-1	EB-1	Trip Blank	MW-103S MS	MW-103S MSD
Date Collected	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025	03/18/2025
PFA ANALYTE (ng/L)	MW-108S										
PFBA	<11	<10	<10	<10	5.6 J	<10	<10	<9.8	<10	100	110
PFPeA	<4.2	<4.1	<4.1	<4.1	1.8 J	<4.1	<4.0	<3.9	<4.1	98	110
4:2 FTS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	110	110
PFHxA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	110
PFBS	0.88 J	<2.0	1.9 J	1.5 J	1.6 J	<2.1	<2.0	<2.0	<2.0	110	110
PFHpA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	110
PFPeS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	110	100
6:2 FTS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	87	100
PFOA	1.0 J	2.3	<2.1	1.2 J	1.3 J	2.0 J	<2.0	<2.0	<2.0	92	120
PFHxS	2.1	<2.0	<2.1	<2.1	1.3 J	<2.1	<2.0	<2.0	<2.0	110	110
PFHxS-LN	2.1	<2.0	<2.1	<2.1	1.1 J	<2.1	<2.0	<2.0	<2.0	90	95
PFHxS-BR	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	14	18
PFNA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	92	97
8:2 FTS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	93	120
PFHpS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	110	120
PFDA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	120
N-MeFOSAA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	93	92
EtFOSAA	<4.2	<4.1	<4.1	<4.1	<4.1	<4.1	<4.0	<3.9	<4.1	110	110
PFOS	21	3.5	<2.1	10	12	3.5	<2.0	<2.0	<2.0	130	130
PFOS-LN	12	<2.0	<2.1	5.2	4.4	<2.1	<2.0	<2.0	<2.0	85	87
PFOS-BR	8.0	2.4	<2.1	4.0	7.4	2.2	<2.0	<2.0	<2.0	38	41
PFUnDA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	110	110
PFNS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	100
PFDoDA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	90	99
PFDS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	99	100
PFTTrDA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	90	97
FOSA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	110	110
PFTeDA	<4.2	<4.1	<4.1	<4.1	<4.1	<4.1	<4.0	<3.9	<4.1	100	120
11Cl-PF3OUdS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	100
9Cl-PF3ONS	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	100	110
ADONA	<2.1	<2.0	<2.1	<2.1	<2.0	<2.1	<2.0	<2.0	<2.0	99	120
HFPO-DA	<11	<10	<10	<10	<10	<10	<10	<9.8	<10	88	100

Table 3
Analytical Methods and Holding Time Criteria
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Parameter	Analytical Method	Matrix	Sample ID	Holding Time (days)				Approved Holding Time
				Collection Date/Time	Extraction Date/Time	Latest Analytical Date/Time	Actual Holding Time (days)	
Chromium VI, Dissolved	SM3500-Cr	Water	FB-1-20250318	03/18/25 09:21		03/18/25 17:30	0.33	24 Hours (1 Day)
		Water	Trip Blank-20250318	03/18/25 15:54		Not Analyzed	--	
		Groundwater	MW-112S-20250318	03/18/25 10:49		03/18/25 17:35	0.24	
		Groundwater	MW-103S-20250318	03/18/25 12:47		03/18/25 17:40	0.20	
		Groundwater	MW-MS103S-20250318	03/18/25 12:47		03/18/25 17:45	0.21	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47		03/18/25/17:50	0.21	
		Groundwater	MW-108S-20250318	03/18/25 13:41		03/18/25 17:55	0.18	
		Groundwater	DUP1-1-20250318	03/18/25 00:01		03/18/25 18:00	0.75	
		Groundwater	MW-114S-29250318	03/18/25 14:21		03/18/25 18:05	0.16	
		Groundwater	MW-110S-20250318	03/18/25 15:35		03/19/25/18:10	0.15	
Chromium VI, Total	SM3500-Cr	Water	FB-1-20250318	03/18/25 09:21		03/18/25 17:30	0.33	24 Hours (1 Day)
		Water	Trip Blank-20250318	03/18/25 15:54		Not analyzed	--	
		Groundwater	MW-112S-20250318	03/18/25 10:49		03/18/25 17:35	0.24	
		Groundwater	MW-103S-20250318	03/18/25 12:47		03/18/25 17:40	0.20	
		Groundwater	MW-MS103S-20250318	03/18/25 12:47		03/18/25 17:45	0.21	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47		03/18/25 17:50	0.21	
		Groundwater	MW-108S-20250318	03/18/25 13:41		03/18/25 17:55	0.18	
		Groundwater	DUP1-1-20250318	03/18/25 00:01		03/18/25 18:00	0.75	
		Groundwater	MW-114S-20250318	03/18/25 14:21		03/18/25 18:05	0.14	
		Groundwater	MW-110S-20250318	03/18/25 15:35		03/18/25 18:10	0.11	
Metals, Total	E200.8	Groundwater	FB-1-20250318	03/18/25 09:21	03/21/25 10:50	03/21/25 12:15	2.92	180 Days
		Water	Trip Blank-20250318	03/18/25 15:54		Not analyzed	--	
		Groundwater	MW-112S-20250318	03/18/25 10:49	03/21/25 10:50	03/21/25 12:22	3.06	
		Groundwater	MW-103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 12:45	3.00	
		Groundwater	MW-MS103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 12:47	3.00	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 12:49	3.00	
		Groundwater	MW-108S-20250318	03/18/25 13:41	03/21/25 10:50	03/21/25 12:31	2.17	
		Groundwater	DUP1-1-20250318	03/18/25 00:01	03/21/25 10:50	03/21/25 12:37	3.52	
		Groundwater	MW-114S-20250318	03/18/25 14:21	03/21/25 10:50	03/21/25 12:43	2.93	
		Groundwater	MW-110S-20250318	03/18/25 15:35	03/21/25 10:50	03/21/25 13:03	2.89	

Table 3
Analytical Methods and Holding Time Criteria
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Parameter	Analytical Method	Matrix	Sample ID	Holding Time (days)				Approved Holding Time
				Collection Date/Time	Extraction Date/Time	Latest Analytical Date/Time	Actual Holding Time (days)	
Metals, Dissolved (As, Cr, Cu, Pb, Se, Zn)	E200.8	Groundwater	FB-1-20250318	03/18/25 09:21	03/21/25 10:50	03/21/25 12:16	2.92	180 Days
		Water	Trip Blank-20250318	03/18/25 15:54		Not analyzed	--	
		Groundwater	MW-112S-20250318	03/18/25 10:49	03/21/25 10:50	03/21/25 12:27	3.07	
		Groundwater	MW-103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 13:06	3.01	
		Groundwater	MW-MS103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 13:24	3.62	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47	03/21/25 10:50	03/21/25 13:26	3.65	
		Groundwater	MW-108S-20250318	03/18/25 13:41	03/21/25 10:50	03/21/25 12:34	1.88	
		Groundwater	DUP1-1-20250318	03/18/25 00:01	03/21/25 10:50	03/21/25 12:40	3.521	
		Groundwater	MW-114S-20250318	03/18/25 14:21	03/21/25 10:50	03/21/25 12:55	2.94	
		Groundwater	MW-110S-20250318	03/18/25 15:35	03/21/25 10:50	03/21/25/13:03	2.91	
VOCs	SW5030C /8260C	Groundwater	FB-1-20250318	03/18/25 09:21		03/21/25 15:37	3.26	14 Days
		Water	Trip Blank-20250318	03/18/25 15:54		03/21/25 16:01	3.00	
		Groundwater	MW-112S-20250318	03/18/25 10:49		03/21/25 16:48	3.25	
		Groundwater	MW-103S-20250318	03/18/25 12:47		03/21/25 17:12	3.46	
		Groundwater	MW-MS103S-20250318	03/18/25 12:47		03/21/25 21:57	3.38	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47		03/21/25 22:21	2.57	
		Groundwater	MW-108S-20250318	03/18/25 13:41		03/21/25 17:36	3.17	
		Groundwater	DUP1-1-20250318	03/18/25 00:01		03/21/25 18:00	3.75	
		Groundwater	MW-114S-20250318	03/18/25 14:21		03/21/25 18:23	3.17	
		Groundwater	MW-110S-20250318	03/18/25 15:35		03/21/25 18:47	3.05	
		Water	EB-1-20250318	03/18/25 15:59		03/21/25 16:25	3.02	
PFAS	ASTM D7979-19M	Water	FB-20250318	03/18/25 09:21	03/20/25 11:30	03/28/25 01:36	9.68	14 Days to Extract
		Water	TripBlank	03/18/25 09:21	03/20/25 11:30	03/28/25 01:56	9.69	
		Groundwater	MW-112S-20250318	03/18/25 10:49	03/20/25 11:30	03/28/25 02:16	9.64	28 to Analyze
		Groundwater	MW-MS103S-20250318	03/18/25 12:47	03/20/25 11:30	03/25/25 15:41	7.12	
		Groundwater	MW-108S-20250318	03/18/25 13:41	03/20/25 11:30	03/28/25 02:56	9.55	
		Groundwater	MW-103S-20250318	03/18/25 12:47	03/20/25 11:30	03/25/25 15:21	7.02	
		Groundwater	MW-MSD103S-20250318	03/18/25 12:47	03/20/25 11:30	03/25/25 16:01	7.13	
		Groundwater	DUP1-1-20250318	03/18/25 00:01	03/20/25 11:30	03/28/25 03:56	10.15	
		Groundwater	MW-114S-20250318	03/18/25 14:21	03/20/25 11:30	03/28/25 04:16	9.58	
		Groundwater	MW-110S-20250318	03/18/25 15:35	03/20/25 11:30	03/28/25 04:36	9.57	
		Water	EB-1-20250318	03/18/25 15:54	03/20/25 11:30	03/28/25 04:56	9.54	

Table 4
Qualified Sample Results Due to Outlying MS/MSD Results
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Analyte	MS or LCS % Recovery	MSD or LCSD Replicate % Recovery	RPD (percent)	Control Limits		Associated Samples	Qualified Result(s)
				% Recovery	RPD		
Report QC-S72498-01, Lab Sample ID: CHR250318-W1-MSD2							
Chromium VI	96	5	61	80-120	15	MW-103S, MW-108S, MW-110S, MW-112-S, MW-114-S, DUP-1	None
Report QC-S72498-01, Lab Sample ID: 250321A7.7249806N							
2-Methylnaphthalene	94.0	122.1	26.0	25.5-165.5	30	MW-103S, MW-108S, MW-110S, MW-112-S, MS-114-S, Dup-1	None
Report QC-S72500-01, Lab Sample ID: AK250320RR.LCSD250320							
Adona	112.6	81.0	32.6	70.0-130.0	30.0	MW-103S, MW-108S, MW-110S, MW-112-S, MS-114-S, Dup-1 EB-1, FB-1, Trip Blank	None
FHpPA (7:3 FTCA)	104.6	77.4	29.9	70.0-130.0	30.0		None: RPD greater than 20.0 but less than 30.0

Table 4
Qualified Sample Results Due to Outlying MS/MSD Results
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Analyte	MS or LCS % Recovery	MSD or LCSD Replicate % Recovery	RPD (percent)	Control Limits		Associated Samples	Qualified Result(s)
				% Recovery	RPD		
Report QC-S72500-01, Lab Sample ID AK250325W1.LCSD250325							
PFNA	92.2	75.0	20.6	70.0-130.0	30.0	MW-103S, MW-108S, MW-110S, MW-112-S, MS-114-S, Dup-1 EB-1, FB-1 Trip Blank	None: RPD greater than 20.0 but less than 30.0
Report QC-S72500-01, Lab Sample ID AK250325W1.7250007N							
PFOA	90.1	113.3	26.4	70.0-130.0	30.0	MW-103S, MW-108S, MW-110S, MW-112-S, MS-114-S, Dup-1 EB-1, FB-1 Trip Blank	None: RPD greater than 20.0 but less than 30.0
8:2 FTSA	92.1	114.3	25.4	70.0-130.0	30.0		

Table 5
Field Sample Duplicate Results and Relative Percent Differences (RPD)
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Analyte (in µg/L)	03/18/2025 13:41	Dup-1	RPD (%)
Arsenic, Dissolved	<2	<2	--
Arsenic	<2	<2	--
Chromium VI, Dissolved	<10	<10	--
Chromium VI	<10	<10	--
Chromium, Dissolved	<5	<5	--
Chromium	3.686	<5	38.3*
Copper, Dissolved	<5	<5	--
Copper	1.149	0.935	20.5
Lead, Dissolved	<3	<3	--
Lead	<3	<3	--
Selenium, Dissolved	<5	<5	--
Selenium	<5	<5	--
Zinc, Dissolved	5	5	0
Zinc	11	14	24.0
Acetone	<50	<50	--
Acrylonitrile	<2	<2	--
2-Butanone (MEK)	<25	<25	--
Benzene	<1	<1	--
n-Butylbenzene	<1	<1	--
Bromobenzene	<1	<1	--
Bromochloromethane	<1	<1	--
Bromodichloromethane	<1	<1	--
Bromoform	<1	<1	--
Bromomethane	<5	<5	--
sec-Butylbenzene	<1	<1	--
tert-Butylbenzene	<1	<1	--
Carbon disulfide	<5	<5	--
Carbon tetrachloride	2	2	0
Chlorobenzene	<1	<1	--
Chloroethane	<5	<5	--
Chloroform	0.76	0.76	0
Chloromethane	<5	<5	--
1,1-Dichloroethane	<1	<1	--
1,1-Dichloroethene	<1	<1	--
1,2-Dibromo-3-chloropropane	<5	<5	--
1,2-Dibromoethane	<1	<1	--
1,2-Dichlorobenzene	<1	<1	--
1,2-Dichloroethane	<1	<1	--
1,2-Dichloropropane	<1	<1	--
1,3-Dichlorobenzene	<1	<1	--
1,4-Dichlorobenzene	<1	<1	--
cis-1,2-Dichloroethene	<1	<1	--
cis-1,3-Dichloropropene	<1	<1	--

Table 5
Field Sample Duplicate Results and Relative Percent Differences (RPD)
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Analyte (in µg/L)	03/18/2025 13:41	Dup-1	RPD (%)
Dibromochloromethane	<5	<5	--
Dibromomethane	<5	<5	--
Dichlorodifluoromethane	<5	<5	--
Diethyl ether	<10	<10	--
trans-1,2-Dichloroethene	<1	<1	--
trans-1,3-Dichloropropene	<1	<1	--
trans-1,4-Dichloro-2-butene	<1	<1	--
Ethylbenzene	<1	<1	--
2-Hexanone	<50	<50	--
Hexachloroethane	<5	<5	--
p-Isopropyltoluene	<5	<5	--
Isopropylbenzene	<5	<5	--
2-Methylnaphthalene	<5	<5	--
4-Methyl-2-pentanone (MIBK)	<50	<50	--
tert-Methyl butyl ether (MTBE)	<5	<5	--
Methyl iodide	<1	<1	--
Methylene chloride	<5	<5	--
Naphthalene	<5	<5	--
n-Propylbenzene	<1	<1	--
Styrene	<1	<1	--
1,1,1,2-Tetrachloroethane	<1	<1	--
1,1,1-Trichloroethane	<1	<1	--
1,1,2,2-Tetrachloroethane	<1	<1	--
1,1,2-Trichloroethane	<1	<1	--
1,2,3-Trichlorobenzene	<5	<5	--
1,2,3-Trichloropropane	<1	<1	--
1,2,3-Trimethylbenzene	<1	<1	--
1,2,4-Trichlorobenzene	<5	<5	--
1,2,4-Trimethylbenzene	<1	<1	--
1,3,5-Trimethylbenzene	<1	<1	--
Tetrachloroethene	<1	<1	--
Tetrahydrofuran	<90	<90	--
Toluene	<1	<1	--
Trichloroethene	<1	0.16	43.9*
Trichlorofluoromethane	<1	<1	--
Vinyl chloride	<1	<1	--
o-Xylene	<1	<1	--
p,m-Xylene	<2	<2	--
Xylenes, Total	<3	<3	--

Table 5
Field Sample Duplicate Results and Relative Percent Differences (RPD)
March 2025 Biannual Groundwater Sampling Event
RACER Flint West #12990, Flint, Michigan

Analyte	MW-108S (Groundwater)		
	03/18/2025 13:41	Dupe	RPD (%)
PFBA	<10	<10	--
PFPeA	<4.1	<4.1	--
4:2 FTSA	<2.0	<2.1	--
PFHxA	<2.0	<2.1	--
PFBS	<2.0	<2.1	--
PFHpA	<2.0	<2.1	--
PFPeS	<2.0	<2.1	--
6:2 FTSA	<2.0	<2.1	--
PFOA	2.3	2.0	14.0
PFHxS	<2.0	<2.1	--
PFHxS-LN	<2.0	<2.1	--
PFHxS-BR	<2.0	<2.1	--
PFNA	<2.0	<2.1	--
8:2 FTSA	<2.0	<2.1	--
PFHpS	<2.0	<2.1	--
PFDA	<2.0	<2.1	--
N-MeFOSAA	<2.0	<2.1	--
EtFOSAA	<4.1	<4.2	--
PFOS	3.5	3.5	0
PFOS-LN	<2.0	<2.1	--
PFOS-BR	2.4	2.2	8.7
PFUnDA	<2.0	<2.1	--
PFNS	<2.0	<2.1	--
PFDoDA	<2.0	<2.1	--
PFDS	<2.0	<2.1	--
PFTTrDA	<2.0	<2.1	--
FOSA	<2.0	<2.1	--
PFTeDA	<4.1	<4.1	--
11Cl-PF3OUdS	<2.0	<2.1	--
9Cl-PF3ONS	<2.0	<2.1	--
ADONA	<2.0	<2.1	--
HFPO-DA	<10	<10	--

(*) Indicates the RPD was calculated assuming one of the concentrations was half the Reporting Limit, which may have biased the RPD.

NOTE: Since this validation report is included as an Appendix to the December 2025 Data Report, copies of the laboratory reports are included in the December 2025 Data Report as Appendix B. Attachment 3 is not duplicated here.