Attachment 3

PFAS and VOC Analytical Data Sheets

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

February 12, 2024

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 24-0006, Flash Cleaners Well Rebuild

FROM: David Spidle
LSB Organic Chemistry Section Chief

THRU: Stacie Masters, Chief
Laboratory Services Branch

TO: Paula Whiting

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Volatile Organics (VOA)		
Volatile organic compounds	EPA 8260C (Water)	ISO

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TBV010124	E240301-02	Trip Blank - Water	1/12/24 08:00	1/16/24 8:30
FCMW06-0124	E240301-04	Groundwater	1/12/24 11:40	1/16/24 8:30
FCMW06D-0124	E240301-05	Groundwater	1/12/24 11:45	1/16/24 8:30
FCMW23-0124	E240301-08	Groundwater	1/12/24 10:10	1/16/24 8:30

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: TBV010124 **Lab ID:** E240301-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/12/24 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: TBV010124 **Lab ID:** E240301-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/12/24 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:19	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: TBV010124 **Lab ID:** E240301-02

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/12/24 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:19	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/17/24 8:43	1/17/24 17:19	EPA 8260C

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06-0124 **Lab ID:** E240301-04
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
71-55-6	1,1,1-Trichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
79-00-5	1,1,2-Trichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-34-3	1,1-Dichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	15	J, Q-2	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
563-58-6	1,1-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
96-18-4	1,2,3-Trichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
95-50-1	1,2-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
107-06-2	1,2-Dichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
78-87-5	1,2-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
541-73-1	1,3-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
142-28-9	1,3-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
106-46-7	1,4-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
594-20-7	2,2-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
67-64-1	Acetone	160	U	ug/L	160	1/17/24 8:43	1/17/24 18:07	EPA 8260C
71-43-2	Benzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-86-1	Bromobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
74-97-5	Bromochloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06-0124 **Lab ID:** E240301-04
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-25-2	Bromoform	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
74-83-9	Bromomethane	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-15-0	Carbon disulfide	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:07	EPA 8260C
56-23-5	Carbon Tetrachloride	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-90-7	Chlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-00-3	Chloroethane	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:07	EPA 8260C
67-66-3	Chloroform	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
74-87-3	Chloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	5100		ug/L	100	1/18/24 8:43	1/18/24 13:16	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
110-82-7	Cyclohexane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
124-48-1	Dibromochloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
74-95-3	Dibromomethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
100-41-4	Ethyl Benzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
87-68-3	Hexachlorobutadiene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
98-82-8	Isopropylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
79-20-9	Methyl Acetate	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
591-78-6	Methyl Butyl Ketone	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
78-93-3	Methyl Ethyl Ketone	160	U	ug/L	160	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:07	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-87-2	Methylcyclohexane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-09-2	Methylene Chloride	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
104-51-8	n-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
103-65-1	n-Propylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
95-49-8	o-Chlorotoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
95-47-6	o-Xylene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06-0124 **Lab ID:** E240301-04
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
99-87-6	p-Isopropyltoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
135-98-8	sec-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
100-42-5	Styrene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
98-06-6	tert-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2800		ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
108-88-3	Toluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	14	J, Q-2	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2800		ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
75-01-4	Vinyl chloride	3600		ug/L	20	1/17/24 8:43	1/17/24 18:07	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/L	400	1/17/24 8:43	1/17/24 18:07	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06D-0124 **Lab ID:** E240301-05
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
71-55-6	1,1,1-Trichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
79-00-5	1,1,2-Trichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-34-3	1,1-Dichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	12	J, Q-2	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
563-58-6	1,1-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
96-18-4	1,2,3-Trichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
95-50-1	1,2-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
107-06-2	1,2-Dichloroethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
78-87-5	1,2-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
541-73-1	1,3-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
142-28-9	1,3-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
106-46-7	1,4-Dichlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
594-20-7	2,2-Dichloropropane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
67-64-1	Acetone	160	U	ug/L	160	1/17/24 8:43	1/17/24 18:32	EPA 8260C
71-43-2	Benzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-86-1	Bromobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
74-97-5	Bromochloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06D-0124 **Lab ID:** E240301-05
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-25-2	Bromoform	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
74-83-9	Bromomethane	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-15-0	Carbon disulfide	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:32	EPA 8260C
56-23-5	Carbon Tetrachloride	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-90-7	Chlorobenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-00-3	Chloroethane	80	U	ug/L	80	1/17/24 8:43	1/17/24 18:32	EPA 8260C
67-66-3	Chloroform	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
74-87-3	Chloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	4800		ug/L	100	1/18/24 8:43	1/18/24 13:41	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
110-82-7	Cyclohexane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
124-48-1	Dibromochloromethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
74-95-3	Dibromomethane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
100-41-4	Ethyl Benzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
87-68-3	Hexachlorobutadiene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
98-82-8	Isopropylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
79-20-9	Methyl Acetate	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
591-78-6	Methyl Butyl Ketone	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
78-93-3	Methyl Ethyl Ketone	160	U	ug/L	160	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	40	U	ug/L	40	1/17/24 8:43	1/17/24 18:32	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-87-2	Methylcyclohexane	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-09-2	Methylene Chloride	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
104-51-8	n-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
103-65-1	n-Propylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
95-49-8	o-Chlorotoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
95-47-6	o-Xylene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06D-0124 **Lab ID:** E240301-05
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
99-87-6	p-Isopropyltoluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
135-98-8	sec-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
100-42-5	Styrene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
98-06-6	tert-Butylbenzene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2500		ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
108-88-3	Toluene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	12	J, Q-2	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2500		ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	20	U	ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
75-01-4	Vinyl chloride	3500		ug/L	20	1/17/24 8:43	1/17/24 18:32	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/L	400	1/17/24 8:43	1/17/24 18:32	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
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D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW23-0124 **Lab ID:** E240301-08
Station ID: FCMW23 **Matrix:** Groundwater

Date Collected: 1/12/24 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW23-0124 **Lab ID:** E240301-08
Station ID: FCMW23 **Matrix:** Groundwater

Date Collected: 1/12/24 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/17/24 8:43	1/17/24 17:43	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C

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Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW23-0124 **Lab ID:** E240301-08
Station ID: FCMW23 **Matrix:** Groundwater

Date Collected: 1/12/24 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/17/24 8:43	1/17/24 17:43	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/17/24 8:43	1/17/24 17:43	EPA 8260C

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Blank (2401021-BLK1)				Prepared & Analyzed: 01/17/24						
EPA 8260C										
(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Blank (2401021-BLK1)				Prepared & Analyzed: 01/17/24						
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
LCS (2401021-BS1)				Prepared & Analyzed: 01/17/24						
EPA 8260C										
(m- and/or p-)Xylene	37.740		ug/L	40.000		94.4	78.5-121			
1,1,1,2-Tetrachloroethane	20.140		"	20.000		101	79-119			
1,1,1-Trichloroethane	19.330		"	20.000		96.6	79-119			
1,1,2,2-Tetrachloroethane	20.100		"	20.000		100	73.6-123			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	17.990		"	20.000		90.0	73.2-129			
1,1,2-Trichloroethane	19.990		"	20.000		100	78.6-119			
1,1-Dichloroethane	19.780		"	20.000		98.9	80-119			
1,1-Dichloroethene (1,1-Dichloroethylene)	19.220		"	20.000		96.1	79-122			
1,1-Dichloropropene	19.070		"	20.000		95.4	80.8-122			
1,2,3-Trichlorobenzene	19.930		"	20.000		99.6	74-131			
1,2,3-Trichloropropane	20.380		"	20.000		102	75.2-122			
1,2,4-Trichlorobenzene	20.050		"	20.000		100	77.5-127			
1,2,4-Trimethylbenzene	19.480		"	20.000		97.4	76.4-127			
1,2-Dibromo-3-Chloropropane (DBCP)	42.200		"	40.000		106	72.6-126			
1,2-Dibromoethane (EDB)	20.260		"	20.000		101	79.7-120			
1,2-Dichlorobenzene	19.610		"	20.000		98.0	76.5-120			
1,2-Dichloroethane	20.600		"	20.000		103	77.9-121			
1,2-Dichloropropane	20.090		"	20.000		100	81.6-120			
1,3,5-Trimethylbenzene	19.490		"	20.000		97.4	75.9-127			
1,3-Dichlorobenzene	19.510		"	20.000		97.6	76.1-120			
1,3-Dichloropropane	19.880		"	20.000		99.4	79.1-118			
1,4-Dichlorobenzene	19.300		"	20.000		96.5	75.8-119			
2,2-Dichloropropane	18.590		"	20.000		93.0	77.5-122			
Acetone	36.210		"	40.000		90.5	67.4-130			
Benzene	19.460		"	20.000		97.3	80.2-118			
Bromobenzene	19.560		"	20.000		97.8	79.7-118			
Bromochloromethane	20.770		"	20.000		104	81.7-120			
Bromodichloromethane	20.510		"	20.000		103	74.4-132			
Bromoform	42.010		"	40.000		105	77.6-125			
Bromomethane	22.820		"	20.000		114	25-153			
Carbon disulfide	18.680		"	20.000		93.4	76.4-122			
Carbon Tetrachloride	19.160		"	20.000		95.8	79.1-122			
Chlorobenzene	18.900		"	20.000		94.5	79.3-115			
Chloroethane	19.720		"	20.000		98.6	65-129			
Chloroform	19.910		"	20.000		99.6	81-119			
Chloromethane	19.700		"	20.000		98.5	59.9-126			
cis-1,2-Dichloroethene	19.880		"	20.000		99.4	81.1-121			
cis-1,3-Dichloropropene	20.090		"	20.000		100	78-123			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
LCS (2401021-BS1)				Prepared & Analyzed: 01/17/24						
Cyclohexane	18.220		ug/L	20.000		91.1	73.2-128			
Dibromochloromethane	20.410		"	20.000		102	79.8-121			
Dibromomethane	20.680		"	20.000		103	83-119			
Dichlorodifluoromethane (Freon 12)	18.400		"	20.000		92.0	65.3-131			
Ethyl Benzene	18.880		"	20.000		94.4	78.1-119			
Hexachlorobutadiene	19.180		"	20.000		95.9	78.3-124			
Isopropylbenzene	19.030		"	20.000		95.2	74.6-127			
Methyl Acetate	40.120		"	40.000		100	72-128			
Methyl Butyl Ketone	40.840		"	40.000		102	71.1-131			
Methyl Ethyl Ketone	40.450		"	40.000		101	69.3-132			
Methyl Isobutyl Ketone	40.540		"	40.000		101	74.9-128			
Methyl T-Butyl Ether (MTBE)	20.440		"	20.000		102	79.8-122			
Methylcyclohexane	18.230		"	20.000		91.2	77.3-126			
Methylene Chloride	20.370		"	20.000		102	80.3-119			
n-Butylbenzene	19.420		"	20.000		97.1	78.9-127			
n-Propylbenzene	19.150		"	20.000		95.8	78.5-123			
o-Chlorotoluene	19.360		"	20.000		96.8	77.6-121			
o-Xylene	18.970		"	20.000		94.8	80-121			
p-Chlorotoluene	19.380		"	20.000		96.9	76.2-122			
p-Isopropyltoluene	19.450		"	20.000		97.2	79.5-126			
sec-Butylbenzene	19.050		"	20.000		95.2	79-125			
Styrene	20.010		"	20.000		100	80.5-125			
tert-Butylbenzene	19.040		"	20.000		95.2	78.3-124			
Tetrachloroethene (Tetrachloroethylene)	18.430		"	20.000		92.2	78-119			
Toluene	18.610		"	20.000		93.0	78.9-116			
trans-1,2-Dichloroethene	19.700		"	20.000		98.5	80.1-121			
trans-1,3-Dichloropropene	20.560		"	20.000		103	79.3-122			
Trichloroethene (Trichloroethylene)	19.700		"	20.000		98.5	80.6-121			
Trichlorofluoromethane (Freon 11)	17.770		"	20.000		88.8	68.9-124			
Vinyl chloride	19.170		"	20.000		95.8	70.6-125			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Matrix Spike (2401021-MS1)		**Source: E240301-08**		Prepared & Analyzed: 01/17/24						
EPA 8260C										
(m- and/or p-)Xylene	20.750		ug/L	20.465	0.0000	101	81.5-138			
1,1,1,2-Tetrachloroethane	10.080		"	10.233	0.0000	98.5	77.4-127			
1,1,1-Trichloroethane	11.280		"	10.233	0.0000	110	85.6-137			
1,1,2,2-Tetrachloroethane	10.120		"	10.233	0.0000	98.9	78-121			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12.210		"	10.233	0.0000	119	87.8-141			
1,1,2-Trichloroethane	10.090		"	10.233	0.0000	98.6	83.6-119			
1,1-Dichloroethane	11.190		"	10.233	0.0000	109	87.6-126			
1,1-Dichloroethene (1,1-Dichloroethylene)	11.710		"	10.233	0.0000	114	87.5-133			
1,1-Dichloropropene	11.510		"	10.233	0.0000	112	90.2-132			
1,2,3-Trichlorobenzene	10.830		"	10.233	0.0000	106	69.5-126			
1,2,3-Trichloropropane	10.350		"	10.233	0.0000	101	78.9-120			
1,2,4-Trichlorobenzene	10.950		"	10.233	0.0000	107	67.6-125			
1,2,4-Trimethylbenzene	10.740		"	10.233	0.0000	105	57.5-147			
1,2-Dibromo-3-Chloropropane (DBCP)	20.040		"	20.465	0.0000	97.9	68.3-125			
1,2-Dibromoethane (EDB)	10.530		"	10.233	0.0000	103	83.4-119			
1,2-Dichlorobenzene	10.320		"	10.233	0.0000	101	78.4-125			
1,2-Dichloroethane	11.410		"	10.233	0.0000	112	83.5-129			
1,2-Dichloropropane	11.280		"	10.233	0.0000	110	85.3-125			
1,3,5-Trimethylbenzene	11.210		"	10.233	0.0000	110	61.9-143			
1,3-Dichlorobenzene	10.510		"	10.233	0.0000	103	79-125			
1,3-Dichloropropane	10.340		"	10.233	0.0000	101	83.6-121			
1,4-Dichlorobenzene	10.540		"	10.233	0.0000	103	78.3-124			
2,2-Dichloropropane	11.080		"	10.233	0.0000	108	45.4-163			
Acetone	18.990		"	20.465	1.2200	86.8	48.2-133			
Benzene	11.210		"	10.233	0.0000	110	88.8-127			
Bromobenzene	10.720		"	10.233	0.0000	105	80.5-121			
Bromochloromethane	10.970		"	10.233	0.0000	107	82.7-126			
Bromodichloromethane	12.390		"	10.233	0.0000	121	81.1-125			
Bromoform	18.680		"	20.465	0.0000	91.3	50.7-133			
Bromomethane	13.060		"	10.233	0.0000	128	33.6-168			
Carbon disulfide	11.120		"	10.233	0.070000	108	40.9-152			
Carbon Tetrachloride	11.720		"	10.233	0.0000	115	75.4-144			
Chlorobenzene	10.220		"	10.233	0.0000	99.9	85.5-123			
Chloroethane	11.790		"	10.233	0.0000	115	70.6-150			
Chloroform	11.000		"	10.233	0.0000	107	87.6-128			
Chloromethane	11.960		"	10.233	0.0000	117	67.3-138			
cis-1,2-Dichloroethene	12.050		"	10.233	0.0000	118	85.3-127			
cis-1,3-Dichloropropene	10.200		"	10.233	0.0000	99.7	73-125			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Matrix Spike (2401021-MS1)		**Source: E240301-08**		Prepared & Analyzed: 01/17/24						
Cyclohexane	11.970		ug/L	10.233	0.0000	117	85.1-140			
Dibromochloromethane	10.100		"	10.233	0.0000	98.7	67.1-128			
Dibromomethane	10.600		"	10.233	0.0000	104	83.2-124			
Dichlorodifluoromethane (Freon 12)	11.930		"	10.233	0.0000	117	71.1-152			
Ethyl Benzene	10.200		"	10.233	0.0000	99.7	85-130			
Hexachlorobutadiene	11.500		"	10.233	0.0000	112	67.2-136			
Isopropylbenzene	11.110		"	10.233	0.0000	109	82.2-134			
Methyl Acetate	20.490		"	20.465	0.0000	100	66.1-122			
Methyl Butyl Ketone	21.090		"	20.465	0.0000	103	66.9-124			
Methyl Ethyl Ketone	21.130		"	20.465	0.0000	103	60.8-127			
Methyl Isobutyl Ketone	20.950		"	20.465	0.0000	102	73.9-125			
Methyl T-Butyl Ether (MTBE)	10.560		"	10.233	0.0000	103	76.5-127			
Methylcyclohexane	11.930		"	10.233	0.0000	117	81.4-144			
Methylene Chloride	11.170		"	10.233	0.0000	109	80.7-129			
n-Butylbenzene	11.220		"	10.233	0.0000	110	74.7-136			
n-Propylbenzene	11.140		"	10.233	0.0000	109	79.7-136			
o-Chlorotoluene	10.840		"	10.233	0.0000	106	80.6-128			
o-Xylene	10.450		"	10.233	0.0000	102	78.6-130			
p-Chlorotoluene	10.440		"	10.233	0.0000	102	79.4-129			
p-Isopropyltoluene	11.100		"	10.233	0.0000	108	76.7-138			
sec-Butylbenzene	11.160		"	10.233	0.0000	109	79-138			
Styrene	10.790		"	10.233	0.0000	105	34.5-158			
tert-Butylbenzene	10.880		"	10.233	0.0000	106	79.5-134			
Tetrachloroethene (Tetrachloroethylene)	11.070		"	10.233	0.0000	108	66.4-149			
Toluene	10.220		"	10.233	0.0000	99.9	85.6-126			
trans-1,2-Dichloroethene	11.720		"	10.233	0.0000	115	86.8-128			
trans-1,3-Dichloropropene	10.010		"	10.233	0.0000	97.8	66.9-126			
Trichloroethene (Trichloroethylene)	11.910		"	10.233	0.0000	116	87.2-128			
Trichlorofluoromethane (Freon 11)	11.850		"	10.233	0.0000	116	87.3-147			
Vinyl chloride	13.090		"	10.233	0.090000	127	84.5-135			

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Matrix Spike Dup (2401021-MSD1)		**Source: E240301-08**		Prepared & Analyzed: 01/17/24						
EPA 8260C										
(m- and/or p-)Xylene	21.230		ug/L	20.465	0.0000	104	81.5-138	2.29	10.3	
1,1,1,2-Tetrachloroethane	10.350		"	10.233	0.0000	101	77.4-127	2.64	12.4	
1,1,1-Trichloroethane	11.640		"	10.233	0.0000	114	85.6-137	3.14	10.9	
1,1,2,2-Tetrachloroethane	10.230		"	10.233	0.0000	100	78-121	1.08	13.5	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12.410		"	10.233	0.0000	121	87.8-141	1.62	13.6	
1,1,2-Trichloroethane	10.330		"	10.233	0.0000	101	83.6-119	2.35	11.2	
1,1-Dichloroethane	11.400		"	10.233	0.0000	111	87.6-126	1.86	11.3	
1,1-Dichloroethene (1,1-Dichloroethylene)	11.850		"	10.233	0.0000	116	87.5-133	1.19	12.8	
1,1-Dichloropropene	11.720		"	10.233	0.0000	115	90.2-132	1.81	11.1	
1,2,3-Trichlorobenzene	11.190		"	10.233	0.0000	109	69.5-126	3.27	14.2	
1,2,3-Trichloropropane	10.360		"	10.233	0.0000	101	78.9-120	0.0966	12.8	
1,2,4-Trichlorobenzene	11.280		"	10.233	0.0000	110	67.6-125	2.97	14.3	
1,2,4-Trimethylbenzene	10.920		"	10.233	0.0000	107	57.5-147	1.66	16.9	
1,2-Dibromo-3-Chloropropane (DBCP)	20.640		"	20.465	0.0000	101	68.3-125	2.95	14.8	
1,2-Dibromoethane (EDB)	10.830		"	10.233	0.0000	106	83.4-119	2.81	10.7	
1,2-Dichlorobenzene	10.570		"	10.233	0.0000	103	78.4-125	2.39	11	
1,2-Dichloroethane	11.760		"	10.233	0.0000	115	83.5-129	3.02	12.1	
1,2-Dichloropropane	11.390		"	10.233	0.0000	111	85.3-125	0.970	13.2	
1,3,5-Trimethylbenzene	11.350		"	10.233	0.0000	111	61.9-143	1.24	13.7	
1,3-Dichlorobenzene	10.630		"	10.233	0.0000	104	79-125	1.14	11.1	
1,3-Dichloropropane	10.550		"	10.233	0.0000	103	83.6-121	2.01	10.5	
1,4-Dichlorobenzene	10.680		"	10.233	0.0000	104	78.3-124	1.32	10.3	
2,2-Dichloropropane	11.210		"	10.233	0.0000	110	45.4-163	1.17	18	
Acetone	19.630		"	20.465	1.2200	90.0	48.2-133	3.31	18.2	
Benzene	11.370		"	10.233	0.0000	111	88.8-127	1.42	10	
Bromobenzene	10.930		"	10.233	0.0000	107	80.5-121	1.94	12.9	
Bromochloromethane	11.240		"	10.233	0.0000	110	82.7-126	2.43	15.3	
Bromodichloromethane	12.710		"	10.233	0.0000	124	81.1-125	2.55	12.5	
Bromoform	19.290		"	20.465	0.0000	94.3	50.7-133	3.21	21.1	
Bromomethane	12.930		"	10.233	0.0000	126	33.6-168	1.00	34.4	
Carbon disulfide	11.170		"	10.233	0.070000	108	40.9-152	0.449	39.5	
Carbon Tetrachloride	11.960		"	10.233	0.0000	117	75.4-144	2.03	15.8	
Chlorobenzene	10.470		"	10.233	0.0000	102	85.5-123	2.42	10.6	
Chloroethane	11.810		"	10.233	0.0000	115	70.6-150	0.169	34.2	
Chloroform	11.240		"	10.233	0.0000	110	87.6-128	2.16	11.4	
Chloromethane	11.970		"	10.233	0.0000	117	67.3-138	0.0836	29	
cis-1,2-Dichloroethene	11.850		"	10.233	0.0000	116	85.3-127	1.67	10.8	
cis-1,3-Dichloropropene	10.520		"	10.233	0.0000	103	73-125	3.09	17.1	

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
Matrix Spike Dup (2401021-MSD1)		**Source: E240301-08**		Prepared & Analyzed: 01/17/24						
Cyclohexane	12.010		ug/L	10.233	0.0000	117	85.1-140	0.334	11.5	
Dibromochloromethane	10.380		"	10.233	0.0000	101	67.1-128	2.73	17.7	
Dibromomethane	10.940		"	10.233	0.0000	107	83.2-124	3.16	14.2	
Dichlorodifluoromethane (Freon 12)	12.030		"	10.233	0.0000	118	71.1-152	0.835	21.6	
Ethyl Benzene	10.380		"	10.233	0.0000	101	85-130	1.75	10	
Hexachlorobutadiene	12.120		"	10.233	0.0000	118	67.2-136	5.25	15.7	
Isopropylbenzene	11.280		"	10.233	0.0000	110	82.2-134	1.52	12.7	
Methyl Acetate	20.820		"	20.465	0.0000	102	66.1-122	1.60	11.2	
Methyl Butyl Ketone	21.950		"	20.465	0.0000	107	66.9-124	4.00	13.2	
Methyl Ethyl Ketone	21.360		"	20.465	0.0000	104	60.8-127	1.08	15	
Methyl Isobutyl Ketone	21.780		"	20.465	0.0000	106	73.9-125	3.88	12	
Methyl T-Butyl Ether (MTBE)	10.810		"	10.233	0.0000	106	76.5-127	2.34	11.8	
Methylcyclohexane	12.440		"	10.233	0.0000	122	81.4-144	4.19	12.4	
Methylene Chloride	11.300		"	10.233	0.0000	110	80.7-129	1.16	14.3	
n-Butylbenzene	11.430		"	10.233	0.0000	112	74.7-136	1.85	12.1	
n-Propylbenzene	11.310		"	10.233	0.0000	111	79.7-136	1.51	11.7	
o-Chlorotoluene	10.980		"	10.233	0.0000	107	80.6-128	1.28	11.3	
o-Xylene	10.720		"	10.233	0.0000	105	78.6-130	2.55	10	
p-Chlorotoluene	10.630		"	10.233	0.0000	104	79.4-129	1.80	11.9	
p-Isopropyltoluene	11.380		"	10.233	0.0000	111	76.7-138	2.49	11.1	
sec-Butylbenzene	11.410		"	10.233	0.0000	112	79-138	2.22	10.7	
Styrene	11.110		"	10.233	0.0000	109	34.5-158	2.92	22.6	
tert-Butylbenzene	11.170		"	10.233	0.0000	109	79.5-134	2.63	11.8	
Tetrachloroethene (Tetrachloroethylene)	11.230		"	10.233	0.0000	110	66.4-149	1.43	13.4	
Toluene	10.440		"	10.233	0.0000	102	85.6-126	2.13	10	
trans-1,2-Dichloroethene	11.900		"	10.233	0.0000	116	86.8-128	1.52	11	
trans-1,3-Dichloropropene	10.300		"	10.233	0.0000	101	66.9-126	2.86	18	
Trichloroethene (Trichloroethylene)	11.850		"	10.233	0.0000	116	87.2-128	0.505	15	
Trichlorofluoromethane (Freon 11)	12.040		"	10.233	0.0000	118	87.3-147	1.59	18.7	
Vinyl chloride	12.940		"	10.233	0.090000	126	84.5-135	1.15	14.1	

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
MRL Verification (2401021-PS1)				Prepared & Analyzed: 01/17/24						
EPA 8260C										
(m- and/or p-)Xylene	1.0400		ug/L	1.0000		104	71.3-137			MRL-2
1,1,1,2-Tetrachloroethane	0.46000		"	0.50000		92.0	56.5-148			MRL-2
1,1,1-Trichloroethane	0.50000		"	0.50000		100	59.3-146			MRL-2
1,1,2,2-Tetrachloroethane	0.45000		"	0.50000		90.0	60.2-138			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.49000		"	0.50000		98.0	60-144			MRL-2
1,1,2-Trichloroethane	0.45000		"	0.50000		90.0	67.1-131			MRL-2
1,1-Dichloroethane	0.50000		"	0.50000		100	67.8-133			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.47000		"	0.50000		94.0	65.4-136			MRL-2
1,1-Dichloropropene	0.50000		"	0.50000		100	69.4-135			MRL-2
1,2,3-Trichlorobenzene	0.56000		"	0.50000		112	65-137			MRL-2
1,2,3-Trichloropropane	0.45000		"	0.50000		90.0	63.4-134			MRL-2
1,2,4-Trichlorobenzene	0.56000		"	0.50000		112	63.9-137			MRL-2
1,2,4-Trimethylbenzene	0.50000		"	0.50000		100	66.5-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	0.84000		"	1.0000		84.0	52.3-156			MRL-2
1,2-Dibromoethane (EDB)	0.47000		"	0.50000		94.0	67.3-135			MRL-2
1,2-Dichlorobenzene	0.54000		"	0.50000		108	66.4-131			MRL-2
1,2-Dichloroethane	0.54000		"	0.50000		108	63.9-142			MRL-2
1,2-Dichloropropane	0.48000		"	0.50000		96.0	68-133			MRL-2
1,3,5-Trimethylbenzene	0.49000		"	0.50000		98.0	66.8-139			MRL-2
1,3-Dichlorobenzene	0.53000		"	0.50000		106	66.4-132			MRL-2
1,3-Dichloropropane	0.53000		"	0.50000		106	67.4-133			MRL-2
1,4-Dichlorobenzene	0.53000		"	0.50000		106	66.5-130			MRL-2
2,2-Dichloropropane	0.43000		"	0.50000		86.0	33.4-174			MRL-2
Benzene	0.53000		"	0.50000		106	69.6-133			MRL-2
Bromobenzene	0.51000		"	0.50000		102	64.6-132			MRL-2
Bromochloromethane	0.46000		"	0.50000		92.0	63.6-137			MRL-2
Bromodichloromethane	0.46000		"	0.50000		92.0	60-145			MRL-2
Bromoform	0.77000		"	1.0000		77.0	43.1-162			MRL-2
Carbon Tetrachloride	0.48000		"	0.50000		96.0	48.8-160			MRL-2
Chlorobenzene	0.53000		"	0.50000		106	68.4-129			MRL-2
Chloroform	0.50000		"	0.50000		100	67.9-135			MRL-2
Chloromethane	0.50000		"	0.50000		100	48.9-138			MRL-2
cis-1,2-Dichloroethene	0.52000		"	0.50000		104	67.6-135			MRL-2
cis-1,3-Dichloropropene	0.45000		"	0.50000		90.0	61-141			MRL-2
Cyclohexane	0.50000		"	0.50000		100	63.5-142			MRL-2
Dibromochloromethane	0.43000		"	0.50000		86.0	51.7-153			MRL-2
Dibromomethane	0.51000		"	0.50000		102	67.3-137			MRL-2
Dichlorodifluoromethane (Freon 12)	0.35000		"	0.50000		70.0	43.5-152			MRL-2

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401021 - V 5030B VOA Wtr Prep										
MRL Verification (2401021-PS1)				Prepared & Analyzed: 01/17/24						
Ethyl Benzene	0.51000		ug/L	0.50000		102	70-134			MRL-2
Hexachlorobutadiene	0.54000		"	0.50000		108	60.2-136			MRL-2
Isopropylbenzene	0.51000		"	0.50000		102	64.5-140			MRL-2
Methyl Acetate	0.97000		"	1.0000		97.0	55.8-141			MRL-2
Methyl Butyl Ketone	0.90000		"	1.0000		90.0	49.9-156			MRL-2
Methyl Isobutyl Ketone	0.87000		"	1.0000		87.0	57-147			MRL-2
Methyl T-Butyl Ether (MTBE)	0.52000		"	0.50000		104	60.1-143			MRL-2
Methylcyclohexane	0.47000		"	0.50000		94.0	62.6-144			MRL-2
Methylene Chloride	0.50000		"	0.50000		100	61.2-138			MRL-2
n-Butylbenzene	0.48000		"	0.50000		96.0	65.7-141			MRL-2
n-Propylbenzene	0.50000		"	0.50000		100	67-137			MRL-2
o-Chlorotoluene	0.52000		"	0.50000		104	65.8-134			MRL-2
o-Xylene	0.49000		"	0.50000		98.0	68.9-136			MRL-2
p-Chlorotoluene	0.51000		"	0.50000		102	66.5-134			MRL-2
p-Isopropyltoluene	0.50000		"	0.50000		100	66.3-143			MRL-2
sec-Butylbenzene	0.49000		"	0.50000		98.0	66.2-140			MRL-2
Styrene	0.48000		"	0.50000		96.0	69.9-139			MRL-2
tert-Butylbenzene	0.50000		"	0.50000		100	65.2-139			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.49000		"	0.50000		98.0	65.1-133			MRL-2
Toluene	0.53000		"	0.50000		106	67.7-131			MRL-2
trans-1,2-Dichloroethene	0.51000		"	0.50000		102	66.6-134			MRL-2
trans-1,3-Dichloropropene	0.44000		"	0.50000		88.0	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.49000		"	0.50000		98.0	67.8-134			MRL-2
Trichlorofluoromethane (Freon 11)	0.48000		"	0.50000		96.0	58-149			MRL-2
Vinyl chloride	0.41000		"	0.50000		82.0	58.8-135			MRL-2
MRL Verification (2401021-PS2)				Prepared & Analyzed: 01/17/24						
EPA 8260C										
Acetone	4.0900		ug/L	4.0000		102	29.7-173			MRL-2
Bromomethane	2.4800		"	2.0000		124	29.9-160			MRL-2
Carbon disulfide	1.9500		"	2.0000		97.5	61.7-134			MRL-2
Chloroethane	1.9400		"	2.0000		97.0	56.7-138			MRL-2
Methyl Ethyl Ketone	3.6300		"	4.0000		90.8	48.1-155			MRL-2

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401023 - V 5030B VOA Wtr Prep										
Blank (2401023-BLK1)				Prepared & Analyzed: 01/18/24						
EPA 8260C										
(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401023 - V 5030B VOA Wtr Prep										
Blank (2401023-BLK1)				Prepared & Analyzed: 01/18/24						
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401023 - V 5030B VOA Wtr Prep										
LCS (2401023-BS1)				Prepared & Analyzed: 01/18/24						
EPA 8260C										
cis-1,2-Dichloroethene	17.530		ug/L	20.000		87.6	81.1-121			
LCS Dup (2401023-BSD1)				Prepared & Analyzed: 01/18/24						
EPA 8260C										
cis-1,2-Dichloroethene	16.960		ug/L	20.000		84.8	81.1-121	3.31	10	
Duplicate (2401023-DUP1)		**Source: E240301-05RE1**		Prepared & Analyzed: 01/18/24						
EPA 8260C										
cis-1,2-Dichloroethene	4674.0	100	ug/L		4826.0			3.20	20	
Tentatively Identified Compounds	U	2000	"		U				200	U
MRL Verification (2401023-PS1)				Prepared & Analyzed: 01/18/24						
EPA 8260C										
cis-1,2-Dichloroethene	0.43000		ug/L	0.50000		86.0	67.6-135			MRL-2

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix

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February 20, 2024

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 24-0006, Flash Cleaners Well Rebuild

FROM: David Spidle
LSB Organic Chemistry Section Chief

THRU: Stacie Masters, Chief
Laboratory Services Branch

TO: Paula Whiting

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Classical/Nutrient Analyses (CNA)		
Solids	USGS I-3765-85 (Water)	ISO
Semi Volatile Organics (SVOA)		
PFAS	EPA 1633 (Water)	

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB010124	E240301-01	Trip Blank - Water	1/12/24 08:00	1/16/24 8:30
FCMW03-0124	E240301-03	Groundwater	1/12/24 09:55	1/16/24 8:30
FCMW06-0124	E240301-04	Groundwater	1/12/24 11:40	1/16/24 8:30
FCMW06D-0124	E240301-05	Groundwater	1/12/24 11:45	1/16/24 8:30
FCMW07-0124	E240301-06	Groundwater	1/12/24 12:40	1/16/24 8:30
FCMW10-0124	E240301-07	Groundwater	1/12/24 11:35	1/16/24 8:30
FCMW23-0124	E240301-08	Groundwater	1/12/24 10:10	1/16/24 8:30

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
H-6	Sample originally analyzed within holding time; some QC requirements not met. The reported result is from a second analysis performed for confirmation which occurred after the holding time expired.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.

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Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: TB010124 **Lab ID:** E240301-01

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/12/24 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	15.2	U, H-6	ng/L	15.2	1/22/24 9:00	2/06/24 20:20	EPA 1633
151772-58-6	3,6-OPFHpA	8.03	U, H-6	ng/L	8.03	1/22/24 9:00	2/06/24 20:20	EPA 1633
757124-72-4	4:2FTS	15.1	U, H-6	ng/L	15.1	1/22/24 9:00	2/06/24 20:20	EPA 1633
27619-97-2	6:2FTS	15.3	U, H-6	ng/L	15.3	1/22/24 9:00	2/06/24 20:20	EPA 1633
39108-34-4	8:2FTS	15.4	U, H-6	ng/L	15.4	1/22/24 9:00	2/06/24 20:20	EPA 1633
73606-19-6	9CL-PF3ONS	15.0	U, J, QR-1, H-6	ng/L	15.0	1/22/24 9:00	2/06/24 20:20	EPA 1633
958445-44	ADONA	15.2	U, H-6	ng/L	15.2	1/22/24 9:00	2/06/24 20:20	EPA 1633
812-70-4	FHpPA	100	U, H-6	ng/L	100	1/22/24 9:00	2/06/24 20:20	EPA 1633
754-91-6	FOSA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
914637-49-3	FPePA	100	U, H-6	ng/L	100	1/22/24 9:00	2/06/24 20:20	EPA 1633
356-02-5	FPrPA	20.1	U, H-6	ng/L	20.1	1/22/24 9:00	2/06/24 20:20	EPA 1633
13252-13-6	HFPO-DA	16.1	U, J, QR-1, H-6	ng/L	16.1	1/22/24 9:00	2/06/24 20:20	EPA 1633
4151-50-2	N-EtFOSA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
2991-50-6	N-EtFOSAA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
1691-99-2	N-EtFOSE	40.2	U, H-6	ng/L	40.2	1/22/24 9:00	2/06/24 20:20	EPA 1633
31506-32-8	N-MeFOSA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
2355-31-9	N-MeFOSAA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
24448-09-7	N-MeFOSE	40.2	U, H-6	ng/L	40.2	1/22/24 9:00	2/06/24 20:20	EPA 1633
377-73-1	PF4OPeA	8.03	U, H-6	ng/L	8.03	1/22/24 9:00	2/06/24 20:20	EPA 1633
863090-89-5	PF5OHxA	8.03	U, H-6	ng/L	8.03	1/22/24 9:00	2/06/24 20:20	EPA 1633
375-22-4	PFBA	16.1	U, H-6	ng/L	16.1	1/22/24 9:00	2/06/24 20:20	EPA 1633
375-73-5	PFBS	3.56	U, H-6	ng/L	3.56	1/22/24 9:00	2/06/24 20:20	EPA 1633
335-76-2	PFDA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
307-55-1	PFDoA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
79780-39-5	PFDoS	3.90	U, H-6	ng/L	3.90	1/22/24 9:00	2/06/24 20:20	EPA 1633
335-77-3	PFDS	3.88	U, H-6	ng/L	3.88	1/22/24 9:00	2/06/24 20:20	EPA 1633
117205-07-9	PFEESA	7.15	U, H-6	ng/L	7.15	1/22/24 9:00	2/06/24 20:20	EPA 1633

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Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: TB010124 **Lab ID:** E240301-01

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/12/24 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
375-92-8	PFHpS	3.83	U, J, QR-1, H-6	ng/L	3.83	1/22/24 9:00	2/06/24 20:20	EPA 1633
307-24-4	PFHxA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
355-46-4	PFHxS	3.67	U, H-6	ng/L	3.67	1/22/24 9:00	2/06/24 20:20	EPA 1633
375-95-1	PFNA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
68259-12-1	PFNS	3.87	U, H-6	ng/L	3.87	1/22/24 9:00	2/06/24 20:20	EPA 1633
335-67-1	PFOA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
1763-23-1	PFOS	3.72	U, H-6	ng/L	3.72	1/22/24 9:00	2/06/24 20:20	EPA 1633
2706-90-3	PFPeA	8.03	U, H-6	ng/L	8.03	1/22/24 9:00	2/06/24 20:20	EPA 1633
2706-91-4	PFPeS	3.78	U, H-6	ng/L	3.78	1/22/24 9:00	2/06/24 20:20	EPA 1633
376-06-7	PFTeDA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
72629-94-8	PFTrDA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633
2058-94-8	PFUdA	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 20:20	EPA 1633

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Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW03-0124 **Lab ID:** E240301-03
Station ID: FCMW03 **Matrix:** Groundwater

Date Collected: 1/12/24 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	14.8	U, H-6	ng/L	14.8	1/22/24 9:00	2/06/24 20:36	EPA 1633
151772-58-6	3,6-OPFHpA	7.81	U, H-6	ng/L	7.81	1/22/24 9:00	2/06/24 20:36	EPA 1633
757124-72-4	4:2FTS	14.6	U, H-6	ng/L	14.6	1/22/24 9:00	2/06/24 20:36	EPA 1633
27619-97-2	6:2FTS	14.8	U, H-6	ng/L	14.8	1/22/24 9:00	2/06/24 20:36	EPA 1633
39108-34-4	8:2FTS	15.0	U, H-6	ng/L	15.0	1/22/24 9:00	2/06/24 20:36	EPA 1633
73606-19-6	9CL-PF3ONS	14.6	U, J, QR-1, H-6	ng/L	14.6	1/22/24 9:00	2/06/24 20:36	EPA 1633
958445-44	ADONA	14.8	U, H-6	ng/L	14.8	1/22/24 9:00	2/06/24 20:36	EPA 1633
812-70-4	FHpPA	97.7	U, H-6	ng/L	97.7	1/22/24 9:00	2/06/24 20:36	EPA 1633
754-91-6	FOSA	15.9	H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
914637-49-3	FPePA	97.7	U, H-6	ng/L	97.7	1/22/24 9:00	2/06/24 20:36	EPA 1633
356-02-5	FPrPA	19.5	U, H-6	ng/L	19.5	1/22/24 9:00	2/06/24 20:36	EPA 1633
13252-13-6	HFPO-DA	15.6	U, J, H-6, QR-1	ng/L	15.6	1/22/24 9:00	2/06/24 20:36	EPA 1633
4151-50-2	N-EtFOSA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
2991-50-6	N-EtFOSAA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
1691-99-2	N-EtFOSE	39.1	U, H-6	ng/L	39.1	1/22/24 9:00	2/06/24 20:36	EPA 1633
31506-32-8	N-MeFOSA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
2355-31-9	N-MeFOSAA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
24448-09-7	N-MeFOSE	39.1	U, H-6	ng/L	39.1	1/22/24 9:00	2/06/24 20:36	EPA 1633
377-73-1	PF4OPeA	7.81	U, H-6	ng/L	7.81	1/22/24 9:00	2/06/24 20:36	EPA 1633
863090-89-5	PF5OHxA	7.81	U, H-6	ng/L	7.81	1/22/24 9:00	2/06/24 20:36	EPA 1633
375-22-4	PFBA	17.0	H-6	ng/L	15.6	1/22/24 9:00	2/06/24 20:36	EPA 1633
375-73-5	PFBS	14.4	H-6	ng/L	3.47	1/22/24 9:00	2/06/24 20:36	EPA 1633
335-76-2	PFDA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
307-55-1	PFDoA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
79780-39-5	PFDoS	3.79	U, H-6	ng/L	3.79	1/22/24 9:00	2/06/24 20:36	EPA 1633
335-77-3	PFDS	3.77	U, H-6	ng/L	3.77	1/22/24 9:00	2/06/24 20:36	EPA 1633
117205-07-9	PFEESA	6.95	U, H-6	ng/L	6.95	1/22/24 9:00	2/06/24 20:36	EPA 1633

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Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW03-0124 **Lab ID:** E240301-03
Station ID: FCMW03 **Matrix:** Groundwater

Date Collected: 1/12/24 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	58.3	H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
375-92-8	PFHpS	18.2	J, QR-1, H-6	ng/L	3.72	1/22/24 9:00	2/06/24 20:36	EPA 1633
307-24-4	PFHxA	31.6	H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
355-46-4	PFHxS	36.4	H-6	ng/L	3.57	1/22/24 9:00	2/06/24 20:36	EPA 1633
375-95-1	PFNA	18.0	H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
68259-12-1	PFNS	3.76	U, H-6	ng/L	3.76	1/22/24 9:00	2/06/24 20:36	EPA 1633
335-67-1	PFOA	333	H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
1763-23-1	PFOS	1240	H-6	ng/L	3.62	1/22/24 9:00	2/06/24 20:36	EPA 1633
2706-90-3	PFPeA	22.6	H-6	ng/L	7.81	1/22/24 9:00	2/06/24 20:36	EPA 1633
2706-91-4	PFPeS	7.87	H-6	ng/L	3.67	1/22/24 9:00	2/06/24 20:36	EPA 1633
376-06-7	PFTeDA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
72629-94-8	PFTrDA	3.91	U, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633
2058-94-8	PFUdA	3.91	U, J, H-6	ng/L	3.91	1/22/24 9:00	2/06/24 20:36	EPA 1633

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Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06-0124 **Lab ID:** E240301-04
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	14.9	U, H-6	ng/L	14.9	1/22/24 9:00	2/06/24 20:52	EPA 1633
151772-58-6	3,6-OPFHpA	7.91	U, H-6	ng/L	7.91	1/22/24 9:00	2/06/24 20:52	EPA 1633
757124-72-4	4:2FTS	14.8	U, H-6	ng/L	14.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
27619-97-2	6:2FTS	15.0	U, H-6	ng/L	15.0	1/22/24 9:00	2/06/24 20:52	EPA 1633
39108-34-4	8:2FTS	15.2	U, H-6	ng/L	15.2	1/22/24 9:00	2/06/24 20:52	EPA 1633
73606-19-6	9CL-PF3ONS	14.8	U, J, QR-1, H-6	ng/L	14.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
958445-44	ADONA	14.9	U, H-6	ng/L	14.9	1/22/24 9:00	2/06/24 20:52	EPA 1633
812-70-4	FHpPA	98.8	U, H-6	ng/L	98.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
754-91-6	FOSA	4.31	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
914637-49-3	FPePA	98.8	U, H-6	ng/L	98.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
356-02-5	FPrPA	19.8	U, H-6	ng/L	19.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
13252-13-6	HFPO-DA	15.8	U, J, QR-1, H-6	ng/L	15.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
4151-50-2	N-EtFOSA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
2991-50-6	N-EtFOSAA	3.95	U, J, Q-2, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
1691-99-2	N-EtFOSE	39.5	U, H-6	ng/L	39.5	1/22/24 9:00	2/06/24 20:52	EPA 1633
31506-32-8	N-MeFOSA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
2355-31-9	N-MeFOSAA	17.6	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
24448-09-7	N-MeFOSE	39.5	U, H-6	ng/L	39.5	1/22/24 9:00	2/06/24 20:52	EPA 1633
377-73-1	PF4OPeA	7.91	U, H-6	ng/L	7.91	1/22/24 9:00	2/06/24 20:52	EPA 1633
863090-89-5	PF5OHxA	7.91	U, H-6	ng/L	7.91	1/22/24 9:00	2/06/24 20:52	EPA 1633
375-22-4	PFBA	15.8	U, H-6	ng/L	15.8	1/22/24 9:00	2/06/24 20:52	EPA 1633
375-73-5	PFBS	23.3	H-6	ng/L	3.51	1/22/24 9:00	2/06/24 20:52	EPA 1633
335-76-2	PFDA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
307-55-1	PFDoA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
79780-39-5	PFDoS	3.83	U, H-6	ng/L	3.83	1/22/24 9:00	2/06/24 20:52	EPA 1633
335-77-3	PFDS	3.81	U, H-6	ng/L	3.81	1/22/24 9:00	2/06/24 20:52	EPA 1633
117205-07-9	PFEESA	7.04	U, H-6	ng/L	7.04	1/22/24 9:00	2/06/24 20:52	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06-0124 **Lab ID:** E240301-04
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	32.1	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
375-92-8	PFHpS	9.15	J, QR-1, H-6	ng/L	3.76	1/22/24 9:00	2/06/24 20:52	EPA 1633
307-24-4	PFHxA	18.2	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
355-46-4	PFHxS	39.5	H-6	ng/L	3.62	1/22/24 9:00	2/06/24 20:52	EPA 1633
375-95-1	PFNA	8.11	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
68259-12-1	PFNS	3.80	U, H-6	ng/L	3.80	1/22/24 9:00	2/06/24 20:52	EPA 1633
335-67-1	PFOA	106	H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
1763-23-1	PFOS	581	H-6	ng/L	3.67	1/22/24 9:00	2/06/24 20:52	EPA 1633
2706-90-3	PFPeA	10.4	H-6	ng/L	7.91	1/22/24 9:00	2/06/24 20:52	EPA 1633
2706-91-4	PFPeS	5.54	H-6	ng/L	3.72	1/22/24 9:00	2/06/24 20:52	EPA 1633
376-06-7	PFTeDA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
72629-94-8	PFTrDA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633
2058-94-8	PFUdA	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 20:52	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06D-0124 **Lab ID:** E240301-05
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	15.8	U, H-6	ng/L	15.8	1/22/24 9:00	2/06/24 21:09	EPA 1633
151772-58-6	3,6-OPFHpA	8.33	U, H-6	ng/L	8.33	1/22/24 9:00	2/06/24 21:09	EPA 1633
757124-72-4	4:2FTS	15.6	U, H-6	ng/L	15.6	1/22/24 9:00	2/06/24 21:09	EPA 1633
27619-97-2	6:2FTS	15.8	U, H-6	ng/L	15.8	1/22/24 9:00	2/06/24 21:09	EPA 1633
39108-34-4	8:2FTS	16.0	U, H-6	ng/L	16.0	1/22/24 9:00	2/06/24 21:09	EPA 1633
73606-19-6	9CL-PF3ONS	15.6	U, J, QR-1, H-6	ng/L	15.6	1/22/24 9:00	2/06/24 21:09	EPA 1633
958445-44	ADONA	15.8	U, H-6	ng/L	15.8	1/22/24 9:00	2/06/24 21:09	EPA 1633
812-70-4	FHpPA	104	U, H-6	ng/L	104	1/22/24 9:00	2/06/24 21:09	EPA 1633
754-91-6	FOSA	4.17	U, J, Q-2, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
914637-49-3	FPePA	104	U, H-6	ng/L	104	1/22/24 9:00	2/06/24 21:09	EPA 1633
356-02-5	FPrPA	20.8	U, H-6	ng/L	20.8	1/22/24 9:00	2/06/24 21:09	EPA 1633
13252-13-6	HFPO-DA	16.7	U, J, QR-1, H-6	ng/L	16.7	1/22/24 9:00	2/06/24 21:09	EPA 1633
4151-50-2	N-EtFOSA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
2991-50-6	N-EtFOSAA	4.25	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
1691-99-2	N-EtFOSE	41.7	U, H-6	ng/L	41.7	1/22/24 9:00	2/06/24 21:09	EPA 1633
31506-32-8	N-MeFOSA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
2355-31-9	N-MeFOSAA	14.0	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
24448-09-7	N-MeFOSE	41.7	U, H-6	ng/L	41.7	1/22/24 9:00	2/06/24 21:09	EPA 1633
377-73-1	PF4OPeA	8.33	U, H-6	ng/L	8.33	1/22/24 9:00	2/06/24 21:09	EPA 1633
863090-89-5	PF5OHxA	8.33	U, H-6	ng/L	8.33	1/22/24 9:00	2/06/24 21:09	EPA 1633
375-22-4	PFBA	16.7	U, H-6	ng/L	16.7	1/22/24 9:00	2/06/24 21:09	EPA 1633
375-73-5	PFBS	18.1	H-6	ng/L	3.70	1/22/24 9:00	2/06/24 21:09	EPA 1633
335-76-2	PFDA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
307-55-1	PFDoA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
79780-39-5	PFDoS	4.04	U, H-6	ng/L	4.04	1/22/24 9:00	2/06/24 21:09	EPA 1633
335-77-3	PFDS	4.02	U, H-6	ng/L	4.02	1/22/24 9:00	2/06/24 21:09	EPA 1633
117205-07-9	PFEESA	7.42	U, H-6	ng/L	7.42	1/22/24 9:00	2/06/24 21:09	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW06D-0124 **Lab ID:** E240301-05
Station ID: FCMW06 **Matrix:** Groundwater

Date Collected: 1/12/24 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	30.7	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
375-92-8	PFHpS	9.06	J, QR-1, H-6	ng/L	3.97	1/22/24 9:00	2/06/24 21:09	EPA 1633
307-24-4	PFHxA	17.4	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
355-46-4	PFHxS	39.0	H-6	ng/L	3.81	1/22/24 9:00	2/06/24 21:09	EPA 1633
375-95-1	PFNA	7.50	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
68259-12-1	PFNS	4.01	U, H-6	ng/L	4.01	1/22/24 9:00	2/06/24 21:09	EPA 1633
335-67-1	PFOA	106	H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
1763-23-1	PFOS	575	H-6	ng/L	3.86	1/22/24 9:00	2/06/24 21:09	EPA 1633
2706-90-3	PFPeA	10.4	H-6	ng/L	8.33	1/22/24 9:00	2/06/24 21:09	EPA 1633
2706-91-4	PFPeS	6.28	H-6	ng/L	3.92	1/22/24 9:00	2/06/24 21:09	EPA 1633
376-06-7	PFTeDA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
72629-94-8	PFTrDA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633
2058-94-8	PFUdA	4.17	U, H-6	ng/L	4.17	1/22/24 9:00	2/06/24 21:09	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW07-0124 **Lab ID:** E240301-06
Station ID: FCMW07 **Matrix:** Groundwater

Date Collected: 1/12/24 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	15.5	U, H-6	ng/L	15.5	1/22/24 9:00	2/06/24 21:25	EPA 1633
151772-58-6	3,6-OPFHpA	8.20	U, H-6	ng/L	8.20	1/22/24 9:00	2/06/24 21:25	EPA 1633
757124-72-4	4:2FTS	15.4	U, H-6	ng/L	15.4	1/22/24 9:00	2/06/24 21:25	EPA 1633
27619-97-2	6:2FTS	15.6	U, H-6	ng/L	15.6	1/22/24 9:00	2/06/24 21:25	EPA 1633
39108-34-4	8:2FTS	15.7	U, H-6	ng/L	15.7	1/22/24 9:00	2/06/24 21:25	EPA 1633
73606-19-6	9CL-PF3ONS	15.3	U, J, QR-1, H-6	ng/L	15.3	1/22/24 9:00	2/06/24 21:25	EPA 1633
958445-44	ADONA	17.8	H-6	ng/L	15.5	1/22/24 9:00	2/06/24 21:25	EPA 1633
812-70-4	FHpPA	102	U, H-6	ng/L	102	1/22/24 9:00	2/06/24 21:25	EPA 1633
754-91-6	FOSA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
914637-49-3	FPePA	102	U, H-6	ng/L	102	1/22/24 9:00	2/06/24 21:25	EPA 1633
356-02-5	FPrPA	20.5	U, H-6	ng/L	20.5	1/22/24 9:00	2/06/24 21:25	EPA 1633
13252-13-6	HFPO-DA	16.4	U, J, QR-1, H-6	ng/L	16.4	1/22/24 9:00	2/06/24 21:25	EPA 1633
4151-50-2	N-EtFOSA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
2991-50-6	N-EtFOSAA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
1691-99-2	N-EtFOSE	41.0	U, H-6	ng/L	41.0	1/22/24 9:00	2/06/24 21:25	EPA 1633
31506-32-8	N-MeFOSA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
2355-31-9	N-MeFOSAA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
24448-09-7	N-MeFOSE	41.0	U, H-6	ng/L	41.0	1/22/24 9:00	2/06/24 21:25	EPA 1633
377-73-1	PF4OPeA	8.20	U, H-6	ng/L	8.20	1/22/24 9:00	2/06/24 21:25	EPA 1633
863090-89-5	PF5OHxA	48.1	H-6	ng/L	8.20	1/22/24 9:00	2/06/24 21:25	EPA 1633
375-22-4	PFBA	37.0	H-6	ng/L	16.4	1/22/24 9:00	2/06/24 21:25	EPA 1633
375-73-5	PFBS	3.64	U, J, Q-2, H-6	ng/L	3.64	1/22/24 9:00	2/06/24 21:25	EPA 1633
335-76-2	PFDA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
307-55-1	PFDoA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
79780-39-5	PFDoS	3.98	U, H-6	ng/L	3.98	1/22/24 9:00	2/06/24 21:25	EPA 1633
335-77-3	PFDS	3.95	U, H-6	ng/L	3.95	1/22/24 9:00	2/06/24 21:25	EPA 1633
117205-07-9	PFEESA	7.30	U, H-6	ng/L	7.30	1/22/24 9:00	2/06/24 21:25	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW07-0124 **Lab ID:** E240301-06
Station ID: FCMW07 **Matrix:** Groundwater

Date Collected: 1/12/24 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	7.17	H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
375-92-8	PFHpS	3.90	U, J, QR-1, H-6	ng/L	3.90	1/22/24 9:00	2/06/24 21:25	EPA 1633
307-24-4	PFHxA	10.8	H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
355-46-4	PFHxS	3.75	U, H-6	ng/L	3.75	1/22/24 9:00	2/06/24 21:25	EPA 1633
375-95-1	PFNA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
68259-12-1	PFNS	3.94	U, H-6	ng/L	3.94	1/22/24 9:00	2/06/24 21:25	EPA 1633
335-67-1	PFOA	10.1	H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
1763-23-1	PFOS	13.3	H-6	ng/L	3.80	1/22/24 9:00	2/06/24 21:25	EPA 1633
2706-90-3	PFPeA	48.1	H-6	ng/L	8.20	1/22/24 9:00	2/06/24 21:25	EPA 1633
2706-91-4	PFPeS	3.85	U, H-6	ng/L	3.85	1/22/24 9:00	2/06/24 21:25	EPA 1633
376-06-7	PFTeDA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
72629-94-8	PFTrDA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633
2058-94-8	PFUdA	4.10	U, H-6	ng/L	4.10	1/22/24 9:00	2/06/24 21:25	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW10-0124 **Lab ID:** E240301-07
Station ID: FCMW10 **Matrix:** Groundwater

Date Collected: 1/12/24 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	25.4	U, H-6	ng/L	25.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
151772-58-6	3,6-OPFHpA	13.4	U, H-6	ng/L	13.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
757124-72-4	4:2FTS	25.2	U, H-6	ng/L	25.2	1/22/24 9:00	2/06/24 21:41	EPA 1633
27619-97-2	6:2FTS	25.5	U, H-6	ng/L	25.5	1/22/24 9:00	2/06/24 21:41	EPA 1633
39108-34-4	8:2FTS	25.8	U, H-6	ng/L	25.8	1/22/24 9:00	2/06/24 21:41	EPA 1633
73606-19-6	9CL-PF3ONS	25.1	U, J, QR-1, H-6	ng/L	25.1	1/22/24 9:00	2/06/24 21:41	EPA 1633
958445-44	ADONA	25.4	U, H-6	ng/L	25.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
812-70-4	FHpPA	168	U, H-6	ng/L	168	1/22/24 9:00	2/06/24 21:41	EPA 1633
754-91-6	FOSA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
914637-49-3	FPePA	168	U, H-6	ng/L	168	1/22/24 9:00	2/06/24 21:41	EPA 1633
356-02-5	FPrPA	33.6	U, H-6	ng/L	33.6	1/22/24 9:00	2/06/24 21:41	EPA 1633
13252-13-6	HFPO-DA	26.8	U, J, QR-1, H-6	ng/L	26.8	1/22/24 9:00	2/06/24 21:41	EPA 1633
4151-50-2	N-EtFOSA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
2991-50-6	N-EtFOSAA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
1691-99-2	N-EtFOSE	67.1	U, H-6	ng/L	67.1	1/22/24 9:00	2/06/24 21:41	EPA 1633
31506-32-8	N-MeFOSA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
2355-31-9	N-MeFOSAA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
24448-09-7	N-MeFOSE	67.1	U, H-6	ng/L	67.1	1/22/24 9:00	2/06/24 21:41	EPA 1633
377-73-1	PF4OPeA	13.4	U, H-6	ng/L	13.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
863090-89-5	PF5OHxA	13.4	U, H-6	ng/L	13.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
375-22-4	PFBA	26.8	U, H-6	ng/L	26.8	1/22/24 9:00	2/06/24 21:41	EPA 1633
375-73-5	PFBS	8.87	H-6	ng/L	5.96	1/22/24 9:00	2/06/24 21:41	EPA 1633
335-76-2	PFDA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
307-55-1	PFDoA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
79780-39-5	PFDoS	6.51	U, H-6	ng/L	6.51	1/22/24 9:00	2/06/24 21:41	EPA 1633
335-77-3	PFDS	6.48	U, H-6	ng/L	6.48	1/22/24 9:00	2/06/24 21:41	EPA 1633
117205-07-9	PFEESA	11.9	U, H-6	ng/L	11.9	1/22/24 9:00	2/06/24 21:41	EPA 1633

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW10-0124 **Lab ID:** E240301-07
Station ID: FCMW10 **Matrix:** Groundwater

Date Collected: 1/12/24 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	11.4	H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
375-92-8	PFHpS	6.39	U, J, QR-1, H-6	ng/L	6.39	1/22/24 9:00	2/06/24 21:41	EPA 1633
307-24-4	PFHxA	23.2	H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
355-46-4	PFHxS	6.14	U, J, Q-2, H-6	ng/L	6.14	1/22/24 9:00	2/06/24 21:41	EPA 1633
375-95-1	PFNA	6.71	U, J, Q-2, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
68259-12-1	PFNS	6.46	U, H-6	ng/L	6.46	1/22/24 9:00	2/06/24 21:41	EPA 1633
335-67-1	PFOA	16.9	H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
1763-23-1	PFOS	26.5	H-6	ng/L	6.22	1/22/24 9:00	2/06/24 21:41	EPA 1633
2706-90-3	PFPeA	32.5	H-6	ng/L	13.4	1/22/24 9:00	2/06/24 21:41	EPA 1633
2706-91-4	PFPeS	6.31	U, H-6	ng/L	6.31	1/22/24 9:00	2/06/24 21:41	EPA 1633
376-06-7	PFTeDA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
72629-94-8	PFTrDA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633
2058-94-8	PFUdA	6.71	U, H-6	ng/L	6.71	1/22/24 9:00	2/06/24 21:41	EPA 1633

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Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW23-0124 **Lab ID:** E240301-08
Station ID: FCMW23 **Matrix:** Groundwater

Date Collected: 1/12/24 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83329-89-9	11-Cl-PF3OUdS	15.1	U, H-6	ng/L	15.1	1/22/24 9:00	2/06/24 21:58	EPA 1633
151772-58-6	3,6-OPFHpA	8.00	U, H-6	ng/L	8.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
757124-72-4	4:2FTS	15.0	U, H-6	ng/L	15.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
27619-97-2	6:2FTS	15.2	U, H-6	ng/L	15.2	1/22/24 9:00	2/06/24 21:58	EPA 1633
39108-34-4	8:2FTS	15.4	U, H-6	ng/L	15.4	1/22/24 9:00	2/06/24 21:58	EPA 1633
73606-19-6	9CL-PF3ONS	15.0	U, J, QR-1, H-6	ng/L	15.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
958445-44	ADONA	15.1	U, H-6	ng/L	15.1	1/22/24 9:00	2/06/24 21:58	EPA 1633
812-70-4	FHpPA	100	U, H-6	ng/L	100	1/22/24 9:00	2/06/24 21:58	EPA 1633
754-91-6	FOSA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
914637-49-3	FPePA	100	U, H-6	ng/L	100	1/22/24 9:00	2/06/24 21:58	EPA 1633
356-02-5	FPrPA	20.0	U, H-6	ng/L	20.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
13252-13-6	HFPO-DA	16.0	U, J, QR-1, H-6	ng/L	16.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
4151-50-2	N-EtFOSA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
2991-50-6	N-EtFOSAA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
1691-99-2	N-EtFOSE	40.0	U, H-6	ng/L	40.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
31506-32-8	N-MeFOSA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
2355-31-9	N-MeFOSAA	4.00	U, J, Q-2, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
24448-09-7	N-MeFOSE	40.0	U, H-6	ng/L	40.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
377-73-1	PF4OPeA	8.00	U, H-6	ng/L	8.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
863090-89-5	PF5OHxA	8.00	U, H-6	ng/L	8.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
375-22-4	PFBA	16.0	U, H-6	ng/L	16.0	1/22/24 9:00	2/06/24 21:58	EPA 1633
375-73-5	PFBS	18.7	H-6	ng/L	3.55	1/22/24 9:00	2/06/24 21:58	EPA 1633
335-76-2	PFDA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
307-55-1	PFDoA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
79780-39-5	PFDoS	3.88	U, H-6	ng/L	3.88	1/22/24 9:00	2/06/24 21:58	EPA 1633
335-77-3	PFDS	3.86	U, H-6	ng/L	3.86	1/22/24 9:00	2/06/24 21:58	EPA 1633
117205-07-9	PFEESA	7.12	U, H-6	ng/L	7.12	1/22/24 9:00	2/06/24 21:58	EPA 1633

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Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics

Project: 24-0006, Flash Cleaners Well Rebuild

Sample ID: FCMW23-0124 **Lab ID:** E240301-08
Station ID: FCMW23 **Matrix:** Groundwater

Date Collected: 1/12/24 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
375-85-9	PFHpA	4.00	U, J, Q-2, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
375-92-8	PFHpS	3.81	U, J, QR-1, H-6	ng/L	3.81	1/22/24 9:00	2/06/24 21:58	EPA 1633
307-24-4	PFHxA	6.87	H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
355-46-4	PFHxS	3.66	U, J, Q-2, H-6	ng/L	3.66	1/22/24 9:00	2/06/24 21:58	EPA 1633
375-95-1	PFNA	8.14	H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
68259-12-1	PFNS	3.85	U, H-6	ng/L	3.85	1/22/24 9:00	2/06/24 21:58	EPA 1633
335-67-1	PFOA	9.54	H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
1763-23-1	PFOS	40.6	H-6	ng/L	3.71	1/22/24 9:00	2/06/24 21:58	EPA 1633
2706-90-3	PFPeA	10.8	H-6	ng/L	8.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
2706-91-4	PFPeS	3.76	U, H-6	ng/L	3.76	1/22/24 9:00	2/06/24 21:58	EPA 1633
376-06-7	PFTeDA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
72629-94-8	PFTrDA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633
2058-94-8	PFUdA	4.00	U, H-6	ng/L	4.00	1/22/24 9:00	2/06/24 21:58	EPA 1633

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
Blank (2401024-BLK1)				Prepared: 01/22/24 Analyzed: 02/06/24						
EPA 1633										
Surrogate: N-EtFOSE-d9	*269.87*		*ng/L*	*500.00*		*54.0*	*0-200*			
11-Cl-PF3OUdS	U	15.1	"							U
3,6-OPFHpA	U	8.00	"							U
4:2FTS	U	15.0	"							U
6:2FTS	U	15.2	"							U
8:2FTS	U	15.4	"							U
9CL-PF3ONS	U	15.0	"							U
ADONA	U	15.1	"							U
FHpPA	U	100	"							U
FOSA	U	4.00	"							U
FPePA	U	100	"							U
FPrPA	U	20.0	"							U
HFPO-DA	U	16.0	"							U
N-EtFOSA	U	4.00	"							U
N-EtFOSAA	U	4.00	"							U
N-EtFOSE	U	40.0	"							U
N-MeFOSA	U	4.00	"							U
N-MeFOSAA	U	4.00	"							U
N-MeFOSE	U	40.0	"							U
PF4OPeA	U	8.00	"							U
PF5OHxA	U	8.00	"							U
PFBA	U	16.0	"							U
PFBS	U	3.55	"							U
PFDA	U	4.00	"							U
PFDoA	U	4.00	"							U
PFDoS	U	3.88	"							U
PFDS	U	3.86	"							U
PFEESA	U	7.12	"							U
PFHpA	U	4.00	"							U
PFHpS	U	3.81	"							U
PFHxA	U	4.00	"							U
PFHxS	U	3.66	"							U
PFNA	U	4.00	"							U
PFNS	U	3.85	"							U
PFOA	U	4.00	"							U
PFOS	U	3.71	"							U
PFPeA	U	8.00	"							U
PFPeS	U	3.76	"							U
PFTeDA	U	4.00	"							U

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
Blank (2401024-BLK1)				Prepared: 01/22/24 Analyzed: 02/06/24						
PFTrDA	U	4.00	ng/L							U
PFUdA	U	4.00	"							U
LCS (2401024-BS1)				Prepared: 01/22/24 Analyzed: 02/06/24						
EPA 1633										
Surrogate: N-EtFOSE-d9	*322.05*		*ng/L*	*500.00*		*64.4*	*10-130*			
11-Cl-PF3OUdS	141	15.1	"	151.20		93.4	55-160			
3,6-OPFHpA	90.1	8.00	"	80.000		113	50-150			
4:2FTS	141	15.0	"	150.00		93.9	70-145			
6:2FTS	155	15.2	"	152.00		102	65-155			
8:2FTS	168	15.4	"	153.60		109	60-150			
9CL-PF3ONS	138	15.0	"	149.60		92.4	70-155			
ADONA	149	15.1	"	151.20		98.3	65-145			
FHpPA	1080	100	"	1000.0		108	50-150			
FOSA	40.5	4.00	"	40.000		101	50-150			
FPePA	1120	100	"	1000.0		112	50-150			
FPrPA	210	20.0	"	200.00		105	50-150			
HFPO-DA	162	16.0	"	160.00		101	70-140			
N-EtFOSA	41.9	4.00	"	40.000		105	65-145			
N-EtFOSAA	43.8	4.00	"	40.000		109	70-145			
N-EtFOSE	401	40.0	"	400.00		100	70-135			
N-MeFOSA	41.5	4.00	"	40.000		104	60-150			
N-MeFOSAA	43.2	4.00	"	40.000		108	50-140			
N-MeFOSE	416	40.0	"	400.00		104	70-145			
PF4OPeA	83.8	8.00	"	80.000		105	50-150			
PF5OHxA	81.1	8.00	"	80.000		101	50-150			
PFBA	169	16.0	"	160.00		106	70-140			
PFBS	37.6	3.55	"	35.480		106	60-145			
PFDA	44.3	4.00	"	40.000		111	70-140			
PFDoA	43.5	4.00	"	40.000		109	70-140			
PFDoS	31.7	3.88	"	38.800		81.7	50-145			
PFDS	36.9	3.86	"	38.600		95.6	60-145			
PFEESA	82.4	7.12	"	71.200		116	70-140			
PFHpA	40.2	4.00	"	40.000		101	70-150			
PFHpS	39.4	3.81	"	38.120		103	70-150			
PFHxA	40.9	4.00	"	40.000		102	70-145			
PFHxS	39.7	3.66	"	36.560		109	65-145			
PFNA	41.6	4.00	"	40.000		104	70-150			
PFNS	40.6	3.85	"	38.480		105	65-145			

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
LCS (2401024-BS1)				Prepared: 01/22/24 Analyzed: 02/06/24						
PFOA	43.9	4.00	ng/L	40.000		110	70-150			
PFOS	37.0	3.71	"	37.120		99.7	55-150			
PFPeA	83.8	8.00	"	80.000		105	65-135			
PFPeS	37.7	3.76	"	37.640		100	65-140			
PFTeDA	39.7	4.00	"	40.000		99.2	60-140			
PFTrDA	42.2	4.00	"	40.000		106	65-140			
PFUdA	42.0	4.00	"	40.000		105	70-145			
Matrix Spike (2401024-MS1)		**Source: E240301-08**		Prepared: 01/22/24 Analyzed: 02/06/24						
EPA 1633										
Surrogate: N-EtFOSE-d9	*282.48*		*ng/L*	*510.20*		*55.4*	*50-150*			
11-Cl-PF3OUdS	111	15.4	"	154.29	U	71.7	50-150			
3,6-OPFHpA	84.8	8.16	"	81.633	U	104	50-150			
4:2FTS	146	15.3	"	153.06	U	95.6	50-150			
6:2FTS	151	15.5	"	155.10	U	97.4	50-150			
8:2FTS	156	15.7	"	156.73	U	99.7	50-150			
9CL-PF3ONS	122	15.3	"	152.65	U	79.9	50-150			
ADONA	159	15.4	"	154.29	U	103	50-150			
FHpPA	905	102	"	1020.4	U	88.7	50-150			
FOSA	40.8	4.08	"	40.816	U	99.9	50-150			
FPePA	1680	102	"	1020.4	U	165	50-150			QM-2
FPrPA	210	20.4	"	204.08	U	103	50-150			
HFPO-DA	162	16.3	"	163.27	U	99.0	50-150			
N-EtFOSA	40.3	4.08	"	40.816	U	98.8	50-150			
N-EtFOSAA	37.5	4.08	"	40.816	U	91.9	50-150			
N-EtFOSE	350	40.8	"	408.16	U	85.6	50-150			
N-MeFOSA	37.8	4.08	"	40.816	U	92.7	50-150			
N-MeFOSAA	44.0	4.08	"	40.816	2.94	101	50-150			
N-MeFOSE	363	40.8	"	408.16	U	89.0	50-150			
PF4OPeA	83.3	8.16	"	81.633	U	102	50-150			
PF5OHxA	70.8	8.16	"	81.633	U	86.7	50-150			
PFBA	154	16.3	"	163.27	U	94.1	50-150			
PFBS	54.9	3.62	"	36.204	18.7	100	50-150			
PFDA	42.3	4.08	"	40.816	U	104	50-150			
PFDoA	35.6	4.08	"	40.816	U	87.1	50-150			
PFDoS	27.7	3.96	"	39.592	U	70.1	50-150			
PFDS	35.4	3.94	"	39.388	U	89.9	50-150			
PFEESA	60.6	7.27	"	72.653	U	83.3	50-150			
PFHpA	43.5	4.08	"	40.816	3.55	98.0	50-150			

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Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
Matrix Spike (2401024-MS1)	**Source: E240301-08**			Prepared: 01/22/24 Analyzed: 02/06/24						
PFHpS	40.3	3.89	ng/L	38.898	U	104	50-150			
PFHxA	47.1	4.08	"	40.816	6.87	98.6	50-150			
PFHxS	40.2	3.73	"	37.306	3.26	98.9	50-150			
PFNA	46.8	4.08	"	40.816	8.14	94.8	50-150			
PFNS	39.2	3.93	"	39.265	U	99.8	50-150			
PFOA	53.3	4.08	"	40.816	9.54	107	50-150			
PFOS	81.1	3.79	"	37.878	40.6	107	50-150			
PFPeA	94.1	8.16	"	81.633	10.8	102	50-150			
PFPeS	30.0	3.84	"	38.408	U	78.1	50-150			
PFTeDA	35.4	4.08	"	40.816	U	86.6	50-150			
PFTrDA	34.0	4.08	"	40.816	U	83.4	50-150			
PFUdA	38.4	4.08	"	40.816	U	94.0	50-150			
Matrix Spike Dup (2401024-MSD1)	**Source: E240301-08**			Prepared: 01/22/24 Analyzed: 02/06/24						
EPA 1633										
Surrogate: N-EtFOSE-d9	*288.15*		*ng/L*	*506.07*		*56.9*	*50-150*			
11-Cl-PF3OUdS	106	15.3	"	153.04	U	69.0	50-150	4.73	50	
3,6-OPFHpA	84.1	8.10	"	80.972	U	104	50-150	0.824	50	
4:2FTS	148	15.2	"	151.82	U	97.8	50-150	1.41	50	
6:2FTS	147	15.4	"	153.85	U	95.9	50-150	2.42	50	
8:2FTS	150	15.5	"	155.47	U	96.6	50-150	4.02	50	
9CL-PF3ONS	103	15.1	"	151.42	U	68.3	50-150	16.4	50	
ADONA	148	15.3	"	153.04	U	96.8	50-150	7.27	50	
FHpPA	880	101	"	1012.1	U	86.9	50-150	2.85	50	
FOSA	38.7	4.05	"	40.486	U	95.6	50-150	5.13	50	
FPePA	1620	101	"	1012.1	U	160	50-150	4.07	50	QM-2
FPrPA	199	20.2	"	202.43	U	98.3	50-150	5.59	50	
HFPO-DA	146	16.2	"	161.94	U	90.3	50-150	10.1	50	
N-EtFOSA	40.2	4.05	"	40.486	U	99.3	50-150	0.384	50	
N-EtFOSAA	39.9	4.05	"	40.486	U	98.6	50-150	6.18	50	
N-EtFOSE	365	40.5	"	404.86	U	90.2	50-150	4.41	50	
N-MeFOSA	36.4	4.05	"	40.486	U	89.9	50-150	3.86	50	
N-MeFOSAA	38.7	4.05	"	40.486	2.94	88.3	50-150	12.9	50	
N-MeFOSE	380	40.5	"	404.86	U	93.9	50-150	4.56	50	
PF4OPeA	77.6	8.10	"	80.972	U	95.8	50-150	7.03	50	
PF5OHxA	71.1	8.10	"	80.972	U	87.8	50-150	0.494	50	
PFBA	148	16.2	"	161.94	U	91.2	50-150	3.94	50	
PFBS	50.2	3.59	"	35.911	18.7	87.8	50-150	8.95	50	
PFDA	40.1	4.05	"	40.486	U	99.1	50-150	5.13	50	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 24-0006
Project: 24-0006, Flash Cleaners Well Rebuild - Reported by David Spidle

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
Matrix Spike Dup (2401024-MSD1)		**Source: E240301-08**		Prepared: 01/22/24 Analyzed: 02/06/24						
PFDoA	38.0	4.05	ng/L	40.486	U	93.9	50-150	6.67	50	
PFDoS	32.9	3.93	"	39.271	U	83.7	50-150	16.9	50	
PFDS	39.6	3.91	"	39.069	U	101	50-150	11.2	50	
PFEESA	61.4	7.21	"	72.065	U	85.2	50-150	1.41	50	
PFHpA	41.8	4.05	"	40.486	3.55	94.5	50-150	4.09	50	
PFHpS	38.5	3.86	"	38.583	U	99.8	50-150	4.68	50	
PFHxA	46.3	4.05	"	40.486	6.87	97.5	50-150	1.62	50	
PFHxS	41.8	3.70	"	37.004	3.26	104	50-150	4.05	50	
PFNA	44.8	4.05	"	40.486	8.14	90.7	50-150	4.37	50	
PFNS	37.9	3.90	"	38.947	U	97.4	50-150	3.19	50	
PFOA	48.5	4.05	"	40.486	9.54	96.3	50-150	9.37	50	
PFOS	79.9	3.76	"	37.571	40.6	105	50-150	1.40	50	
PFPeA	88.9	8.10	"	80.972	10.8	96.5	50-150	5.65	50	
PFPeS	28.6	3.81	"	38.097	U	75.0	50-150	4.88	50	
PFTeDA	35.6	4.05	"	40.486	U	88.0	50-150	0.713	50	
PFTrDA	36.0	4.05	"	40.486	U	88.8	50-150	5.47	50	
PFUdA	38.6	4.05	"	40.486	U	95.3	50-150	0.574	50	
MRL Verification (2401024-PS1)				Prepared: 01/22/24 Analyzed: 02/06/24						**MRL-2**
EPA 1633										
Surrogate: N-EtFOSE-d9	*351.95*		*ng/L*	*500.00*		*70.4*	*10-130*			
11-Cl-PF3OUdS	0.494		ng/mL	0.75600		65.3	55-160			
3,6-OPFHpA	0.368		"	0.40000		92.0	0-200			
4:2FTS	0.539		"	0.75000		71.8	70-145			
6:2FTS	0.653		"	0.76000		85.9	65-155			
8:2FTS	0.576		"	0.76800		75.0	60-150			
9CL-PF3ONS	0.466		"	0.74800		62.3	70-155			QR-1
ADONA	0.576		"	0.75600		76.2	65-145			
FHpPA	3.79		"	5.0000		75.9	0-200			
FOSA	0.184		"	0.20000		92.0	0-200			
FPePA	4.25		"	5.0000		85.0	0-200			
FPrPA	0.773		"	1.0000		77.3	0-200			
HFPO-DA	0.556		"	0.80000		69.6	70-140			QR-1
N-EtFOSA	0.157		"	0.20000		78.7	65-145			
N-EtFOSAA	0.144		"	0.20000		72.0	70-145			
N-EtFOSE	1.51		"	2.0000		75.7	70-135			
N-MeFOSA	0.136		"	0.20000		67.8	60-150			
N-MeFOSAA	0.159		"	0.20000		79.3	0-200			
N-MeFOSE	1.56		"	2.0000		77.8	70-145			

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Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2401024 - S PFC 1633										
MRL Verification (2401024-PS1)				Prepared: 01/22/24 Analyzed: 02/06/24						**MRL-2**
PF4OPeA	0.314		ng/mL	0.40000		78.5	0-200			
PF5OHxA	0.320		"	0.40000		79.9	0-200			
PFBA	0.718		"	0.80000		89.7	70-140			
PFBS	0.137		"	0.17741		77.4	60-145			
PFDA	0.148		"	0.20000		74.0	70-140			
PFDoA	0.192		"	0.20000		95.9	70-140			
PFDoS	0.153		"	0.19400		79.0	50-145			
PFDS	0.163		"	0.19299		84.4	60-145			
PFEESA	0.291		"	0.35600		81.8	70-140			
PFHpA	0.160		"	0.20000		80.0	70-150			
PFHpS	0.119		"	0.19059		62.5	70-150			QR-1
PFHxA	0.177		"	0.20000		88.5	70-145			
PFHxS	0.144		"	0.18280		78.6	65-145			
PFNA	0.140		"	0.20000		70.1	70-150			
PFNS	0.150		"	0.19240		77.8	65-145			
PFOA	0.188		"	0.20000		94.2	70-150			
PFOS	0.134		"	0.18560		72.3	55-150			
PFPeA	0.341		"	0.40000		85.4	65-135			
PFPeS	0.144		"	0.18819		76.8	65-140			
PFTeDA	0.157		"	0.20000		78.5	60-140			
PFTrDA	0.166		"	0.20000		82.9	65-140			
PFUdA	0.185		"	0.20000		92.5	70-145			

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
QM-2	Matrix Spike Recovery greater than method control limits
QR-1	MRL verification recovery less than lower control limits.