

July 21, 2021

Rob Olsen, REHS
Tacoma - Pierce County Health Department
Environmental Health Specialist
3629 South D Street
Tacoma, WA 98418-6813

Re: Birds Eye Foods Boiler Room Site
Summary Report for 2021 Q1 Semi-Annual Groundwater Monitoring Event

Dear Rob:

Pacific Groundwater Group (PGG) is pleased to present this letter report on behalf of our client, Conagra Brands, to summarize semi-annual groundwater monitoring performed in the first quarter 2021 (2021 Q1) at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. Groundwater monitoring is performed because petroleum-related contamination in soil has been identified in a portion of the facility, referred to as the “Boiler Room Site,” which was the subject of a 2011 Remedial Investigation/Feasibility Study (2011 RI/FS) (PGG 2011). Site contaminants of concern were not detected in the 2021 Q1 groundwater samples. Groundwater concentrations of site contaminants of concern have not exceeded cleanup levels since the 2007 sampling event.

Tacoma – Pierce County Health Department (TPCHD) regulates the Boiler Room Site as an open Underground Storage Tank (UST) Site. Due to the presence of contaminated soil below the water table at the Boiler Room Site, TPCHD requires ongoing semi-annual groundwater monitoring to assess the efficacy of remedial actions and to monitor for potential contaminant migration (Marek, undated; received June 13, 2013). The semi-annual monitoring events shall be performed in spring and fall and shall involve sampling from two (2) shallow and deep well pairs generally located upgradient and downgradient of contaminated soil (Marek, undated; received June 13, 2013). In the absence of evidence of contaminant migration, TPCHD will not require remedial action other than the preferred *Soil Containment and Natural Source Zone Depletion* remedy identified in the 2011 RI/FS (Marek, undated; received June 13, 2013).

The semi-annual monitoring program required by TPCHD is in addition to, and does not alter, the long-term groundwater monitoring program (PGG 2012) required by the *Soil Containment and Natural Source Zone Depletion* remedy that was authorized by the Washington State Department of Ecology (Ecology) and incorporated into the Environmental Restrictive Covenant and No Further Action (Ecology 2013). The Ecology long-term groundwater monitoring events are performed every 18 months. The most recent long-term

monitoring event was performed in September 2020 (2020 Q3) and the next event will be March 2022 (2022 Q1).

Analytical results for groundwater samples collected in 2021 Q1 indicate that the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil is not resulting in a dissolved plume with concentrations of site contaminants of concern exceeding the Model Toxics Control Act (MTCA) Method A cleanup levels.

This work was performed, and this report prepared, in accordance with hydrogeologic practices generally accepted at this time and in this area for the exclusive use of the former Birds Eye Foods facility, for specific application to the project site. No other warranty, express or implied, is made.

2021 Q1 SEMI-ANNUAL GROUNDWATER SAMPLING SUMMARY

The 2021 Q1 groundwater sampling event was performed in compliance with TPCHD requirements (Marek, undated; received June 13, 2013) and the Semi-Annual Groundwater Monitoring Plan (PGG 2013). Groundwater samples were collected from the Boiler Room Site semi-annual well network on March 29, 2021 by representatives of PGG. The semi-annual monitoring well network is presented in Figure 1 and construction details are summarized in Table 1.

The monitoring wells were purged and sampled using new, disposable tubing and peristaltic pumps. Low-flow purging and sampling techniques were used to minimize turbidity in the groundwater samples. During purging, field meters were used to monitor pH, specific conductance, temperature, and turbidity. Samples were collected when these field parameters had stabilized or after a minimum of three casing volumes had been purged. Purge water was drummed onsite prior to anticipated disposal offsite by Marine Vacuum Services, Inc. of Seattle, WA.

CHEMICALS OF CONCERN AND SITE CLEANUP LEVELS

Groundwater samples were received by Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on March 29, 2021. Samples were stored and delivered in ice chests following standard chain-of-custody procedures.

Groundwater samples were analyzed according to Ecology and/or U.S. Environmental Protection Agency (EPA) methods for the following parameters:

- Northwest Total Petroleum Hydrocarbons – Gasoline Range Organics (NWTPH-G), and Diesel-Range and Heavy Oil-Range Organics (NWTPH-Dx) with silica gel cleanup.
- BTEX Compounds – Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8260).

- PAHs – Polynuclear Aromatic Hydrocarbons (EPA Method 8270D with selected ion monitoring modification to achieve required reporting limits).

As described in the 2011 RI/FS (PGG 2011) and Semi-Annual Groundwater Monitoring Plan (PGG 2013), standard MTCA (Ecology 2007) Method A Unrestricted Land Use cleanup levels are applicable to the Boiler Room Site to evaluate the relative chemical effects from soil contamination at the Site on groundwater quality. MTCA Method A cleanup levels meet the criteria of WAC 173-340-704(1) because there are few hazardous substances at the Site and numerical Method A standards have been established. Groundwater cleanup levels presented in Table 2 are consistent with the 2011 RI/FS.

ANALYTICAL RESULTS

The 2021 Q1 groundwater monitoring analytical results are summarized in Table 2 and the analytical lab report is presented in Appendix A. Site contaminants of concern were not detected in the groundwater samples. The analytical reporting limits were less than corresponding Site cleanup levels.

The 2021 Q1 groundwater analytical results indicate that the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil is not resulting in a dissolved plume with concentrations exceeding MTCA Method A cleanup levels.

Quality assurance/quality control (QA/QC) data associated with the Boiler Room Site 2021 Q1 groundwater samples were reviewed by PGG. All requested analyses were performed, and the QA/QC assessments indicated acceptable results with the following notations:

- Surrogate Spikes are performed by the lab as part of their internal QA/QC. Surrogate spikes are chemicals unlikely to be in field samples that are added to the sample in a known amount. Surrogates are analyzed using the same procedures as other parameters. The analytical performance is assessed by evaluating the amount of the surrogate recovered from the sample relative to the amount added. The surrogate recoveries of bromofluorobenzene were below acceptable limits in the initial analyses of BTEX and gasoline in samples MW-9S, MW-12S, MW-12D, and MW-22S (duplicate, see below). These samples were reanalyzed, and the surrogate recoveries were acceptable; therefore, no corrective actions were required, and the data are considered acceptable for purposes of the monitoring program without qualification.
- Laboratory Control Samples and Laboratory Control Sample Duplicates (LCS/LCSD) are types of internal laboratory QA/QC samples. LCS/LCSD are similar to surrogate spikes except instead of adding chemicals to *field samples* that are *unlikely to be found in the field samples*, they are chemicals added to *purified media* (e.g. deionized water) that are *likely to be present in the field samples*. LCS/LCSD are analyzed to assess the laboratory performance to successfully recover target analytes from a purified sample material, like deionized water. Recovering the target analytes in the LCS assesses whether the analytical procedure is in control and

evaluates the lab's capability to report unbiased measurements. The LCSD is a replicate of the LCS and monitors the accuracy and precision of the analytical process on a purified material. The BTEX compound m,p-Xylene was recovered above control limits from the LCSD analyzed on April 1, 2021. Since BTEX compounds were not detected in the 2021 Q1 groundwater samples, no corrective actions were required, and the data are considered acceptable for purposes of the monitoring program without qualification.

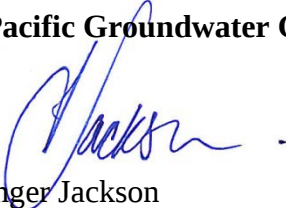
Field QA/QC included a blind field duplicate labeled MW-22S that was collected at well MW-12S and analyzed for the semi-annual sampling analytical suite to evaluate analytical precision. No Site chemicals of concern were detected in the 2021 Q1 MW-12S sample or the field duplicate MW-22S.

CLOSING

We hope this data contributes to your understanding of the Site and groundwater monitoring data. Please contact Inger Jackson at PGG with questions.

Sincerely,

Pacific Groundwater Group



Inger Jackson
Senior Hydrogeologist

2021Q1_BEFSummaryReport_Final

Cc: René Rimelspach, Conagra Brands

Panjini Balaraju, Washington State Department of Ecology Southwest Regional Office

Attachments: Table 1. Semi-Annual Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2021 Q1

Figure 1. Boiler Room Site Semi-Annual Monitoring Well Network

Appendix A. ARI Lab Report 21C0430

REFERENCES

- Marek, undated. Birds Eye Foods – UST Site Tacoma, WA. Letter from Mr. Steve Marek, Director Environmental Health Division Tacoma – Pierce County Health Department to Mr. Scott Fehseke, Pinnacle Foods, LLC. Digital version of letter received by Pinnacle Foods, LLC via email on June 13, 2013.
- Pacific Groundwater Group. 2011. Birds Eye Foods Tacoma, WA 2011 Remedial Investigation/Feasibility Study. Consultant's report prepared for Pinnacle Foods Group, LLC. December 16, 2011.
- Pacific Groundwater Group. 2012. Birds Eye Foods, Tacoma Boiler Room Site Long-Term Groundwater Monitoring Plan VCP Site Number SW1187. Consultant's report prepared for Pinnacle Foods Group, LLC. October 23, 2012.
- Pacific Groundwater Group. 2013. Birds Eye Foods UST Site Proposed Semi-Annual Groundwater Monitoring Plan. Consultant's report prepared for Pinnacle Foods Group, LLC. March 17, 2013.
- Pacific Groundwater Group. 2019. Birds Eye Foods Boiler Room Site Summary Report for 2019 Q3 Semi-Annual Groundwater Monitoring Event. Consultant's report prepared for Conagra Brands. December 18, 2019.
- Washington State Department of Ecology. 2007. Model Toxics Control Act Statute and Regulation. WAC 173-340. Publication No. 94-06. Revised November 2007.
- Washington State Department of Ecology. 2013. Re: No Further Action at the following Site: Birds Eye Foods 3303 S 35th Street, Tacoma WA 98409-4701 Facility/Site No. 1328, Cleanup Site ID No.: 5012, VCP Project No.: SW1187. Letter from T. Middleton, Department of Ecology SWRO Toxics Cleanup Program to S. Fehseke, Pinnacle Foods.

Table 1. Semi-Annual Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

Units, Datum*		MW-9S	MW-9D	MW-12S	MW-12D
Unique Well ID (UWID)		Not available	Not available	BHL 104	BHL 103
Location Information					
Township/Range-Section		21N/R3E-07	21N/R3E-07	21N/R3E-07	21N/R3E-07
Northing	feet, NAD 83/91 WA South	697261.9	697257.9	697590.9	697585.0
Easting	feet, NAD 83/91 WA South	1148195.0	1148194.9	1148259.2	1148259.1
Ground Surface Elevation	feet, NAVD 88	247.67	247.64	248.24	248.19
Measuring Point Elevation	feet, NAVD 88	246.99	247.14	247.86	247.90
Construction Information					
Date Completed		10/22/1991	8/24/1992	4/23/2012	4/23/2012
Diameter	inches	2	2	2	2
Depth Drilled	feet bgs	37	82	35	75
Top of Screen	feet bgs	22	77	20	63
Bottom of Screen	feet bgs	37	82	35	73
Depth Completed	feet bgs	37	82	35	73
Monument Type	← Sherwood High Traffic Flush Monument →				

* Vertical and Horizontal Datums use the Washington State Reference Network

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2021 Q1

CONSTITUENT	UNITS	Site Cleanup Levels*	MW-9S	MW-9D	MW-12S	MW-12D
Field Parameters						
Depth to Water	feet		16.79	17.22	17.84	18.01
pH, Field	std. units		6.54	6.8	6.98	7.12
Specific Conductance, Field	umhos/cm		208.8	433.2	681.1	568.5
Temperature (C)	C		14.3	14.6	14	14.4
Turbidity, Field	NTU		1.51	3.2	12.2	3.27
NWTPH Analytes						
Diesel Range Organics	mg/L	0.5	0.1 U	0.1 U	0.1 U	0.1 U
Gasoline Range Organics	mg/L	0.8	0.1 U	0.1 U	0.1 U	0.1 U
Oil Range Organics	mg/L	0.5	0.2 U	0.2 U	0.2 U	0.2 U
BTEX (EPA 8260)						
Benzene	ug/L	5	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	ug/L	700	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	ug/L	1000	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	ug/L		0.2 U	0.2 U	0.2 U	0.2 U
Xylene Isomers, m+p	ug/L		0.4 U	0.4 U	0.4 U	0.4 U
Carcinogenic PAHs						
Benzo(a)anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	ug/L	0.1	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Chrysene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Dibenzo(a,h)anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Indeno(1,2,3-cd)pyrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Non-Carcinogenic PAHs						
Acenaphthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	ug/L	160	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Pyrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U

*Cleanup Levels based on MTCA Method A, consistent with Birds Eye Foods Tacoma, WA 2011 Remedial Investigation/Feasibility Study

MTCA Cleanup Levels: Gasoline Range Organics 0.8 mg/L if benzene present, 1.0 mg/L if benzene not present; Xylenes 1000 ug/L (individual cleanup levels for m+p xylenes and o-xylenes not established); Benzo(a)pyrene 0.1 ug/L, this represents the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency method in WAC 173-340-708(8).

NWTPH-Dx analysis with silica gel cleanup, consistent with historical site analyses

Lower case qualifiers assigned by PGG QA/QC data reviewer.

Upper case qualifiers assigned by lab.

Bold text indicates constituent detected at or above method reporting limit.

U - Compound not detected

J - Concentration estimated

B - Compound detected in blank

K:\RUSS\BirdsEye\GIS\MonitoringNetwork LongTerm 2021.mxd - 4/20/2021



- Semi-Annual Monitoring Well Network
- ▨ 2011 Delineated Petroleum Contaminated Soil Areas



Figure 1
Semi-Annual Monitoring
Well Network



Analytical Resources, Incorporated
Analytical Chemists and Consultants

19 April 2021

Inger Jackson
Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle, WA 98102

RE: Birds Eye

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
21C0430

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2150 2160430	Turn-around Requested: Standard	Page: 1 of 1
ARI Client Company: Pacific Groundwater Group	Phone: 206 979 4566	Date: 3/29/21
Client Contact: Inger Jackson		Ice Present? Yes
		No. of Coolers: 2
		Cooler Temps: 2.1 4.4



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)
www.arilabs.com

Client Project Name: Birds Eye					Analysis Requested								Notes/Comments	
Client Project #: JI1001-11		Samplers: Jackson/N. Mehr			BTEX + 4	NWTPH-DX + Silica Gel	PAH-SIM							
Sample ID	Date	Time	Matrix	No. Containers										
mw-9s	3/29/21	1450	W	9	5	2	2							
mw-9D		1510		9	5	2	2							
mw-12s		1030		9	5	2	2							
MW-12D (+ms/msd)		1100		27	15	6	6							
MW-22s		1045		9	5	2	2							
Trip Blanks					2									
Comments/Special Instructions EDD in "P&G" and EIM format					Relinquished by: (Signature) Inger Jackson		Received by: (Signature) Jacob Harte		Relinquished by: (Signature)		Received by: (Signature)			
					Printed Name:		Printed Name:		Printed Name:		Printed Name:			
					Company: Pacific GW Group		Company: ARI		Company:		Company:			
					Date & Time: 3/29/21 1639		Date & Time: 03/29/2021 1639		Date & Time:		Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle WA, 98102

Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9S	21C0430-01	Water	29-Mar-2021 14:50	29-Mar-2021 16:39
MW-9D	21C0430-02	Water	29-Mar-2021 15:10	29-Mar-2021 16:39
MW-12S	21C0430-03	Water	29-Mar-2021 10:30	29-Mar-2021 16:39
MW-12D	21C0430-04	Water	29-Mar-2021 11:00	29-Mar-2021 16:39
MW-22S	21C0430-05	Water	29-Mar-2021 10:45	29-Mar-2021 16:39
Trip Blanks	21C0430-06	Water	29-Mar-2021 15:10	29-Mar-2021 16:39



Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle WA, 98102

Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

Work Order Case Narrative

Gasoline by NWTPH-g (GC/MS)

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms. The samples were re-analyzed with surrogate recoveries in control.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms. The samples were re-analyzed with surrogate recovery in control.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits with the exception of analytes flagged on the associated forms.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times.



Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle WA, 98102

Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

Diesel Range Organics - WA-Ecology Method NW-TPHD

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



WORK ORDER

21C0430

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

Preservation Confirmation

Container ID	Container Type	pH
21C0430-01 A	Glass NM, Amber, 500 mL	
21C0430-01 B	Glass NM, Amber, 500 mL	
21C0430-01 C	Glass NM, Amber, 500 mL	
21C0430-01 D	Glass NM, Amber, 500 mL	
21C0430-01 E	VOA Vial, Clear, 40 mL, HCL	
21C0430-01 F	VOA Vial, Clear, 40 mL, HCL	
21C0430-01 G	VOA Vial, Clear, 40 mL, HCL	
21C0430-01 H	VOA Vial, Clear, 40 mL, HCL	
21C0430-01 I	VOA Vial, Clear, 40 mL, HCL	
21C0430-02 A	Glass NM, Amber, 500 mL	
21C0430-02 B	Glass NM, Amber, 500 mL	
21C0430-02 C	Glass NM, Amber, 500 mL	
21C0430-02 D	Glass NM, Amber, 500 mL	
21C0430-02 E	VOA Vial, Clear, 40 mL, HCL	
21C0430-02 F	VOA Vial, Clear, 40 mL, HCL	
21C0430-02 G	VOA Vial, Clear, 40 mL, HCL	
21C0430-02 H	VOA Vial, Clear, 40 mL, HCL	
21C0430-02 I	VOA Vial, Clear, 40 mL, HCL	
21C0430-03 A	Glass NM, Amber, 500 mL	
21C0430-03 B	Glass NM, Amber, 500 mL	
21C0430-03 C	Glass NM, Amber, 500 mL	
21C0430-03 D	Glass NM, Amber, 500 mL	
21C0430-03 E	VOA Vial, Clear, 40 mL, HCL	Bubble
21C0430-03 F	VOA Vial, Clear, 40 mL, HCL	
21C0430-03 G	VOA Vial, Clear, 40 mL, HCL	
21C0430-03 H	VOA Vial, Clear, 40 mL, HCL	
21C0430-03 I	VOA Vial, Clear, 40 mL, HCL	
21C0430-04 A	Glass NM, Amber, 500 mL	
21C0430-04 AA	VOA Vial, Clear, 40 mL, HCL	
21C0430-04 B	Glass NM, Amber, 500 mL	
21C0430-04 C	Glass NM, Amber, 500 mL	
21C0430-04 D	Glass NM, Amber, 500 mL	
21C0430-04 E	Glass NM, Amber, 500 mL	
21C0430-04 F	Glass NM, Amber, 500 mL	
21C0430-04 G	Glass NM, Amber, 500 mL	



WORK ORDER

21C0430

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

21C0430-04 H	Glass NM, Amber, 500 mL
21C0430-04 I	Glass NM, Amber, 500 mL
21C0430-04 J	Glass NM, Amber, 500 mL
21C0430-04 K	Glass NM, Amber, 500 mL
21C0430-04 L	Glass NM, Amber, 500 mL
21C0430-04 M	VOA Vial, Clear, 40 mL, HCL
21C0430-04 N	VOA Vial, Clear, 40 mL, HCL
21C0430-04 O	VOA Vial, Clear, 40 mL, HCL
21C0430-04 P	VOA Vial, Clear, 40 mL, HCL
21C0430-04 Q	VOA Vial, Clear, 40 mL, HCL
21C0430-04 R	VOA Vial, Clear, 40 mL, HCL
21C0430-04 S	VOA Vial, Clear, 40 mL, HCL
21C0430-04 T	VOA Vial, Clear, 40 mL, HCL
21C0430-04 U	VOA Vial, Clear, 40 mL, HCL
21C0430-04 V	VOA Vial, Clear, 40 mL, HCL
21C0430-04 W	VOA Vial, Clear, 40 mL, HCL
21C0430-04 X	VOA Vial, Clear, 40 mL, HCL
21C0430-04 Y	VOA Vial, Clear, 40 mL, HCL
21C0430-04 Z	VOA Vial, Clear, 40 mL, HCL
21C0430-05 A	Glass NM, Amber, 500 mL
21C0430-05 B	Glass NM, Amber, 500 mL
21C0430-05 C	Glass NM, Amber, 500 mL
21C0430-05 D	Glass NM, Amber, 500 mL
21C0430-05 E	VOA Vial, Clear, 40 mL, HCL
21C0430-05 F	VOA Vial, Clear, 40 mL, HCL
21C0430-05 G	VOA Vial, Clear, 40 mL, HCL
21C0430-05 H	VOA Vial, Clear, 40 mL, HCL
21C0430-05 I	VOA Vial, Clear, 40 mL, HCL
21C0430-06 A	VOA Vial, Clear, 40 mL, HCL
21C0430-06 B	VOA Vial, Clear, 40 mL, HCL

KD
Preservation Confirmed By

3/30/21
Date

Reviewed By

Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PGC

Project Name: Birds Eye

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2100430

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc.) YES NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) YES NO

Time 1639

2.1 4.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 206

Cooler Accepted by: JBW

Date: 03/09/21

Time: 1639

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI... NA 3/22/21
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: KD Date: 3/30/21 Time: 1425 Labels checked by: KD

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:
vial had air bubbles, please see preservation sheet.

By: KD Date: 3/30/21



Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle WA, 98102

Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: LH

Sampled: 03/29/2021 14:50

Analyzed: 03/31/2021 20:31

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJC0880 Sample Size: 10 mL
Prepared: 03/31/2021 Final Volume: 10 mL

Extract ID: 21C0430-01 G

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	122	%	
Surrogate: Toluene-d8			80-120 %	89.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	79.1	%	*
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 14:50
Instrument: NT2 Analyst: LH	Analyzed: 03/31/2021 20:31
Sample Preparation:	Extract ID: 21C0430-01 G
Preparation Method: EPA 5030C (Purge and Trap)	
Preparation Batch: BJC0880	Sample Size: 10 mL
Prepared: 03/31/2021	Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	89.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	79.1	%	*



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 03/29/2021 14:50

Analyzed: 04/13/2021 01:49

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BJC0876 Sample Size: 500 mL
Prepared: 04/02/2021 Final Volume: 0.5 mL

Extract ID: 21C0430-01 C 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			31-120 %	50.5	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	64.3	%	



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/29/2021 14:50
Instrument: FID4 Analyst: CTO			Analyzed: 04/16/2021 00:24
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21C0430-01 A 01
	Preparation Batch: BJC0873	Sample Size: 500 mL	
	Prepared: 04/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21C0430-01 A 01
	Cleanup Batch: CJD0148	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21C0430-01 A 01
	Cleanup Batch: CJD0147	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	82.1	%	



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Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01RE1 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: PKC

Sampled: 03/29/2021 14:50

Analyzed: 04/01/2021 21:20

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJD0004 Sample Size: 10 mL
Prepared: 04/01/2021 Final Volume: 10 mL

Extract ID: 21C0430-01RE1 H

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	128	%	
Surrogate: Toluene-d8			80-120 %	91.6	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.8	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	109	%	



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Reported:
19-Apr-2021 13:07

MW-9S
21C0430-01RE1 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 14:50
Instrument: NT2 Analyst: PKC	Analyzed: 04/01/2021 21:20
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BJD0004
	Sample Size: 10 mL
	Prepared: 04/01/2021
	Final Volume: 10 mL
	Extract ID: 21C0430-01RE1 H

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	91.6	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.8	%	



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Reported:
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MW-9D
21C0430-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: LH

Sampled: 03/29/2021 15:10

Analyzed: 03/31/2021 20:52

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJC0880 Sample Size: 10 mL
Prepared: 03/31/2021 Final Volume: 10 mL

Extract ID: 21C0430-02 F

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	129	%	
Surrogate: Toluene-d8			80-120 %	89.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	80.0	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
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MW-9D
21C0430-02 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 15:10
Instrument: NT2 Analyst: LH	Analyzed: 03/31/2021 20:52
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BJC0880
	Sample Size: 10 mL
	Prepared: 03/31/2021
	Final Volume: 10 mL
	Extract ID: 21C0430-02 F

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	89.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	80.0	%	



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Reported:
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MW-9D
21C0430-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 03/29/2021 15:10

Analyzed: 04/13/2021 02:17

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BJC0876 Sample Size: 500 mL
Prepared: 04/02/2021 Final Volume: 0.5 mL

Extract ID: 21C0430-02 C 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			31-120 %	46.6	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	63.5	%	



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Reported:
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MW-9D
21C0430-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/29/2021 15:10
Instrument: FID4 Analyst: CTO			Analyzed: 04/16/2021 00:45
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21C0430-02 A 01
	Preparation Batch: BJC0873	Sample Size: 500 mL	
	Prepared: 04/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21C0430-02 A 01
	Cleanup Batch: CJD0148	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21C0430-02 A 01
	Cleanup Batch: CJD0147	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	77.2	%	



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Reported:
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MW-12S
21C0430-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: LH

Sampled: 03/29/2021 10:30

Analyzed: 03/31/2021 21:13

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJC0880 Sample Size: 10 mL
Prepared: 03/31/2021 Final Volume: 10 mL

Extract ID: 21C0430-03 G

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	130	%	*
Surrogate: Toluene-d8			80-120 %	90.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	76.3	%	*
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



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Reported:
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MW-12S
21C0430-03 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 10:30
Instrument: NT2 Analyst: LH	Analyzed: 03/31/2021 21:13
Sample Preparation:	Extract ID: 21C0430-03 G
Preparation Method: EPA 5030C (Purge and Trap)	
Preparation Batch: BJC0880	Sample Size: 10 mL
Prepared: 03/31/2021	Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	90.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	74.6	%	*



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Reported:
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MW-12S
21C0430-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 03/29/2021 10:30

Analyzed: 04/13/2021 02:44

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BJC0876 Sample Size: 500 mL
Prepared: 04/02/2021 Final Volume: 0.5 mL

Extract ID: 21C0430-03 C 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			31-120 %	57.8	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	66.2	%	



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Reported:
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MW-12S
21C0430-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/29/2021 10:30
Instrument: FID4 Analyst: CTO			Analyzed: 04/16/2021 01:06
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21C0430-03 A 01
	Preparation Batch: BJC0873		
	Sample Size: 500 mL		
	Prepared: 04/05/2021		Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21C0430-03 A 01
	Cleanup Batch: CJD0148		
	Initial Volume: 1 mL		
	Cleaned: 14-Apr-2021		Final Volume: 1 mL
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21C0430-03 A 01
	Cleanup Batch: CJD0147		
	Initial Volume: 1 mL		
	Cleaned: 14-Apr-2021		Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	56.4	%	



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Reported:
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MW-12S
21C0430-03RE1 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: PKC

Sampled: 03/29/2021 10:30

Analyzed: 04/01/2021 21:41

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJD0004 Sample Size: 10 mL
Prepared: 04/01/2021 Final Volume: 10 mL

Extract ID: 21C0430-03RE1 E

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	127	%	
Surrogate: Toluene-d8			80-120 %	90.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.7	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	107	%	



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Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-12S
21C0430-03RE1 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 10:30
Instrument: NT2 Analyst: PKC	Analyzed: 04/01/2021 21:41
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BJD0004
	Sample Size: 10 mL
	Prepared: 04/01/2021
	Final Volume: 10 mL
	Extract ID: 21C0430-03RE1 E

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	90.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.7	%	



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
19-Apr-2021 13:07

MW-12D
21C0430-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/29/2021 11:00

Instrument: NT2 Analyst: LH

Analyzed: 03/31/2021 21:34

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 21C0430-04 O

Preparation Batch: BJC0880

Sample Size: 10 mL

Prepared: 03/31/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	131	%	*
Surrogate: Toluene-d8			80-120 %	88.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	78.5	%	*
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	103	%	



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Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
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MW-12D
21C0430-04 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 11:00
Instrument: NT2 Analyst: LH	Analyzed: 03/31/2021 21:34
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BJC0880
	Sample Size: 10 mL
	Prepared: 03/31/2021
	Final Volume: 10 mL
	Extract ID: 21C0430-04 O

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	88.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	78.5	%	*



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Project Manager: Inger Jackson

Reported:
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MW-12D
21C0430-04 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 03/29/2021 11:00

Instrument: NT8 Analyst: JZ

Analyzed: 04/13/2021 03:11

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 21C0430-04 D 01

Preparation Batch: BJC0876

Sample Size: 500 mL

Prepared: 04/02/2021

Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			31-120 %	57.1	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	70.6	%	



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Project Manager: Inger Jackson

Reported:
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MW-12D
21C0430-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/29/2021 11:00
Instrument: FID4 Analyst: CTO			Analyzed: 04/16/2021 01:27
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21C0430-04 A 01
	Preparation Batch: BJC0873	Sample Size: 500 mL	
	Prepared: 04/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21C0430-04 A 01
	Cleanup Batch: CJD0148	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21C0430-04 A 01
	Cleanup Batch: CJD0147	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	64.9	%	



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Reported:
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MW-12D
21C0430-04RE1 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: PKC

Sampled: 03/29/2021 11:00

Analyzed: 04/01/2021 22:01

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJD0004 Sample Size: 10 mL
Prepared: 04/01/2021 Final Volume: 10 mL

Extract ID: 21C0430-04RE1 T

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	129	%	
Surrogate: Toluene-d8			80-120 %	90.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.6	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	106	%	



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Reported:
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MW-12D
21C0430-04RE1 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 11:00
Instrument: NT2 Analyst: PKC	Analyzed: 04/01/2021 22:01
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BJD0004
	Sample Size: 10 mL
	Prepared: 04/01/2021
	Final Volume: 10 mL
	Extract ID: 21C0430-04RE1 T

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	90.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	81.6	%	



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MW-22S
21C0430-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: LH

Sampled: 03/29/2021 10:45

Analyzed: 03/31/2021 21:56

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BJC0880 Sample Size: 10 mL
Prepared: 03/31/2021 Final Volume: 10 mL

Extract ID: 21C0430-05 F

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	134	%	*
Surrogate: Toluene-d8			80-120 %	88.6	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	74.9	%	*
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



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Reported:
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MW-22S
21C0430-05 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 10:45
Instrument: NT2 Analyst: LH	Analyzed: 03/31/2021 21:56
Sample Preparation:	Extract ID: 21C0430-05 F
Preparation Method: EPA 5030C (Purge and Trap)	
Preparation Batch: BJC0880	Sample Size: 10 mL
Prepared: 03/31/2021	Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	88.6	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	72.6	%	*



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MW-22S
21C0430-05 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM

Sampled: 03/29/2021 10:45

Instrument: NT8 Analyst: JZ

Analyzed: 04/13/2021 04:32

Sample Preparation:

Preparation Method: EPA 3520C (Liq Liq)

Extract ID: 21C0430-05 C 01

Preparation Batch: BJC0876

Sample Size: 500 mL

Prepared: 04/02/2021

Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzo(a)fluoranthene, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			31-120 %	53.7	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	65.6	%	



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MW-22S
21C0430-05 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/29/2021 10:45
Instrument: FID4 Analyst: CTO			Analyzed: 04/16/2021 02:31
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21C0430-05 A 01
	Preparation Batch: BJC0873	Sample Size: 500 mL	
	Prepared: 04/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21C0430-05 A 01
	Cleanup Batch: CJD0148	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21C0430-05 A 01
	Cleanup Batch: CJD0147	Initial Volume: 1 mL	
	Cleaned: 14-Apr-2021	Final Volume: 1 mL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			50-150 %	70.6	%	



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MW-22S
21C0430-05RE1 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/29/2021 10:45

Instrument: NT2 Analyst: PKC

Analyzed: 04/05/2021 21:14

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 21C0430-05RE1 G

Preparation Batch: BJD0108

Sample Size: 10 mL

Prepared: 04/05/2021

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	103	%	
Surrogate: Toluene-d8			80-120 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	94.8	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	



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Reported:
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MW-22S
21C0430-05RE1 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 10:45
Instrument: NT2 Analyst: PKC	Analyzed: 04/05/2021 21:14
Sample Preparation:	Extract ID: 21C0430-05RE1 G
Preparation Method: EPA 5030C (Purge and Trap)	
Preparation Batch: BJD0108	Sample Size: 10 mL
Prepared: 04/05/2021	Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	94.8	%	



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Reported:
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Trip Blanks
21C0430-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT2 Analyst: PKC

Sampled: 03/29/2021 15:10

Analyzed: 04/06/2021 12:02

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) Sample Size: 10 mL
Preparation Batch: BJD0158 Final Volume: 10 mL
Prepared: 04/06/2021 Extract ID: 21C0430-06 A

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	101	%	
Surrogate: Toluene-d8			80-120 %	98.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.2	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	98.4	%	



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Reported:
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Trip Blanks
21C0430-06 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 03/29/2021 15:10
Instrument: NT2 Analyst: PKC	Analyzed: 04/06/2021 12:02
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap) Extract ID: 21C0430-06 A
	Preparation Batch: BJD0158 Sample Size: 10 mL
	Prepared: 04/06/2021 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	98.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.2	%	



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Reported:
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Volatile Organic Compounds - Quality Control

Batch BJC0880 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: LH

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJC0880-BLK1)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 19:06								
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.60		ug/L	5.00		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	4.06		ug/L	5.00		81.2	80-120			
Blank (BJC0880-BLK2)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 19:06								
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.88		ug/L	5.00		118	80-129			
Surrogate: Toluene-d8	4.60		ug/L	5.00		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	4.06		ug/L	5.00		81.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.14		ug/L	5.00		103	80-120			
LCS (BJC0880-BS1)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 17:21								
Gasoline Range Organics (Tol-Nap)	955	100	ug/L	1000		95.5	72-128			
Surrogate: Toluene-d8	5.11		ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	4.70		ug/L	5.00		94.1	80-120			
LCS (BJC0880-BS2)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 18:03								
Benzene	11.0	0.20	ug/L	10.0		110	80-120			
Toluene	10.4	0.20	ug/L	10.0		104	80-120			
Ethylbenzene	10.6	0.20	ug/L	10.0		106	80-120			
m,p-Xylene	22.2	0.40	ug/L	20.0		111	80-121			
o-Xylene	11.2	0.20	ug/L	10.0		112	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.06		ug/L	5.00		101	80-129			
Surrogate: Toluene-d8	4.93		ug/L	5.00		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	4.74		ug/L	5.00		94.7	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.05		ug/L	5.00		101	80-120			
LCS Dup (BJC0880-BSD1)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 17:42								
Gasoline Range Organics (Tol-Nap)	874	100	ug/L	1000		87.4	72-128	8.79	30	
Surrogate: Toluene-d8	5.09		ug/L	5.00		102	80-120			



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Reported:
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Volatile Organic Compounds - Quality Control

Batch BJC0880 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: LH

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BJC0880-BSD1)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 17:42								
Surrogate: 4-Bromofluorobenzene	4.86		ug/L	5.00		97.1	80-120			
LCS Dup (BJC0880-BSD2)		Prepared: 31-Mar-2021 Analyzed: 31-Mar-2021 18:24								
Benzene	10.5	0.20	ug/L	10.0		105	80-120	5.26	30	
Toluene	9.87	0.20	ug/L	10.0		98.7	80-120	5.58	30	
Ethylbenzene	10.0	0.20	ug/L	10.0		100	80-120	5.23	30	
m,p-Xylene	20.7	0.40	ug/L	20.0		104	80-121	6.69	30	
o-Xylene	10.6	0.20	ug/L	10.0		106	80-121	5.85	30	
Surrogate: 1,2-Dichloroethane-d4	5.18		ug/L	5.00		104	80-129			
Surrogate: Toluene-d8	4.94		ug/L	5.00		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	4.98		ug/L	5.00		99.6	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.91		ug/L	5.00		98.1	80-120			
Matrix Spike (BJC0880-MS1)		Source: 21C0430-04 Prepared: 31-Mar-2021 Analyzed: 01-Apr-2021 02:51								
Benzene	11.0	0.20	ug/L	10.0	ND	110	80-120			
Toluene	10.3	0.20	ug/L	10.0	ND	103	80-120			
Ethylbenzene	10.4	0.20	ug/L	10.0	ND	104	80-120			
m,p-Xylene	21.8	0.40	ug/L	20.0	ND	109	80-121			
o-Xylene	11.0	0.20	ug/L	10.0	ND	110	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.32		ug/L	5.00	6.53	106	80-129			
Surrogate: Toluene-d8	4.86		ug/L	5.00	4.40	97.2	80-120			
Surrogate: 4-Bromofluorobenzene	5.02		ug/L	5.00	3.92	100	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.92		ug/L	5.00	5.13	98.5	80-120			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike (BJC0880-MS2)		Source: 21C0430-04 Prepared: 31-Mar-2021 Analyzed: 01-Apr-2021 03:33								
Gasoline Range Organics (Tol-Nap)	939	100	ug/L	1000	ND	93.9	72-128			
Surrogate: Toluene-d8	5.05		ug/L	5.00	4.40	101	80-120			
Surrogate: 4-Bromofluorobenzene	4.71		ug/L	5.00	3.92	94.1	80-120			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BJC0880-MSD1)		Source: 21C0430-04 Prepared: 31-Mar-2021 Analyzed: 01-Apr-2021 03:12								
Benzene	10.6	0.20	ug/L	10.0	ND	106	80-120	3.60	30	
Toluene	10.1	0.20	ug/L	10.0	ND	101	80-120	2.61	30	



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
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Volatile Organic Compounds - Quality Control

Batch BJC0880 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: LH

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BJC0880-MSD1)		Source: 21C0430-04		Prepared: 31-Mar-2021		Analyzed: 01-Apr-2021 03:12				
Ethylbenzene	10.2	0.20	ug/L	10.0	ND	102	80-120	2.57	30	
m,p-Xylene	21.1	0.40	ug/L	20.0	ND	105	80-121	3.18	30	
o-Xylene	10.6	0.20	ug/L	10.0	ND	106	80-121	3.92	30	
Surrogate: 1,2-Dichloroethane-d4	5.36		ug/L	5.00	6.53	107	80-129			
Surrogate: Toluene-d8	4.93		ug/L	5.00	4.40	98.7	80-120			
Surrogate: 4-Bromofluorobenzene	4.86		ug/L	5.00	3.92	97.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.95		ug/L	5.00	5.13	99.0	80-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BJC0880-MSD2)		Source: 21C0430-04		Prepared: 31-Mar-2021		Analyzed: 01-Apr-2021 03:54				
Gasoline Range Organics (Tol-Nap)	958	100	ug/L	1000	ND	95.8	72-128	2.01	30	
Surrogate: Toluene-d8	5.00		ug/L	5.00	4.40	100	80-120			
Surrogate: 4-Bromofluorobenzene	4.80		ug/L	5.00	3.92	95.9	80-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Birds Eye
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Project Manager: Inger Jackson

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Volatile Organic Compounds - Quality Control

Batch BJD0004 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0004-BLK1)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 15:49								
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.68		ug/L	5.00		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	4.68		ug/L	5.00		93.6	80-120			
Blank (BJD0004-BLK2)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 15:49								
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.20		ug/L	5.00		104	80-129			
Surrogate: Toluene-d8	4.68		ug/L	5.00		93.5	80-120			
Surrogate: 4-Bromofluorobenzene	4.68		ug/L	5.00		93.6	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.18		ug/L	5.00		104	80-120			
LCS (BJD0004-BS1)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 14:03								
Gasoline Range Organics (Tol-Nap)	1100	100	ug/L	1000		110	72-128			
Surrogate: Toluene-d8	5.18		ug/L	5.00		104	80-120			
Surrogate: 4-Bromofluorobenzene	5.15		ug/L	5.00		103	80-120			
LCS (BJD0004-BS2)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 14:44								
Benzene	11.0	0.20	ug/L	10.0		110	80-120			
Toluene	10.7	0.20	ug/L	10.0		107	80-120			
Ethylbenzene	11.1	0.20	ug/L	10.0		111	80-120			
m,p-Xylene	23.9	0.40	ug/L	20.0		119	80-121			
o-Xylene	10.7	0.20	ug/L	10.0		107	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.77		ug/L	5.00		95.4	80-129			
Surrogate: Toluene-d8	5.04		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	5.23		ug/L	5.00		105	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.02		ug/L	5.00		100	80-120			
LCS Dup (BJD0004-BSD1)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 14:23								
Gasoline Range Organics (Tol-Nap)	1160	100	ug/L	1000		116	72-128	5.76	30	
Surrogate: Toluene-d8	5.25		ug/L	5.00		105	80-120			



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Volatile Organic Compounds - Quality Control

Batch BJD0004 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BJD0004-BSD1)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 14:23								
Surrogate: 4-Bromofluorobenzene	5.26		ug/L	5.00		105	80-120			
LCS Dup (BJD0004-BSD2)		Prepared: 01-Apr-2021 Analyzed: 01-Apr-2021 15:04								
Benzene	11.3	0.20	ug/L	10.0		113	80-120	3.21	30	
Toluene	11.1	0.20	ug/L	10.0		111	80-120	3.78	30	
Ethylbenzene	11.7	0.20	ug/L	10.0		117	80-120	5.02	30	
m,p-Xylene	24.9	0.40	ug/L	20.0		124	80-121	4.09	30	*
o-Xylene	11.2	0.20	ug/L	10.0		112	80-121	4.19	30	
Surrogate: 1,2-Dichloroethane-d4	4.86		ug/L	5.00		97.2	80-129			
Surrogate: Toluene-d8	5.07		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	5.38		ug/L	5.00		108	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.01		ug/L	5.00		100	80-120			



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Volatile Organic Compounds - Quality Control

Batch BJD0108 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0108-BLK1)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 19:06								
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.92		ug/L	5.00		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	4.85		ug/L	5.00		97.0	80-120			
Blank (BJD0108-BLK2)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 19:06								
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.22		ug/L	5.00		104	80-129			
Surrogate: Toluene-d8	4.92		ug/L	5.00		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	4.85		ug/L	5.00		97.0	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.01		ug/L	5.00		100	80-120			
LCS (BJD0108-BS1)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 17:22								
Gasoline Range Organics (Tol-Nap)	1080	100	ug/L	1000		108	72-128			
Surrogate: Toluene-d8	5.08		ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	4.90		ug/L	5.00		98.0	80-120			
LCS (BJD0108-BS2)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 18:03								
Benzene	9.59	0.20	ug/L	10.0		95.9	80-120			
Toluene	9.59	0.20	ug/L	10.0		95.9	80-120			
Ethylbenzene	9.61	0.20	ug/L	10.0		96.1	80-120			
m,p-Xylene	19.5	0.40	ug/L	20.0		97.5	80-121			
o-Xylene	9.66	0.20	ug/L	10.0		96.6	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.08		ug/L	5.00		102	80-129			
Surrogate: Toluene-d8	5.00		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	4.96		ug/L	5.00		99.3	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.02		ug/L	5.00		100	80-120			
LCS Dup (BJD0108-BSD1)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 17:43								
Gasoline Range Organics (Tol-Nap)	927	100	ug/L	1000		92.7	72-128	15.10	30	
Surrogate: Toluene-d8	5.12		ug/L	5.00		102	80-120			



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Volatile Organic Compounds - Quality Control

Batch BJD0108 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BJD0108-BSD1)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 17:43								
Surrogate: 4-Bromofluorobenzene	4.83		ug/L	5.00		96.6	80-120			
LCS Dup (BJD0108-BSD2)		Prepared: 05-Apr-2021 Analyzed: 05-Apr-2021 18:24								
Benzene	10.1	0.20	ug/L	10.0		101	80-120	4.76	30	
Toluene	9.99	0.20	ug/L	10.0		99.9	80-120	4.03	30	
Ethylbenzene	10.3	0.20	ug/L	10.0		103	80-120	7.07	30	
m,p-Xylene	20.5	0.40	ug/L	20.0		103	80-121	5.20	30	
o-Xylene	10.1	0.20	ug/L	10.0		101	80-121	4.79	30	
Surrogate: 1,2-Dichloroethane-d4	5.04		ug/L	5.00		101	80-129			
Surrogate: Toluene-d8	4.97		ug/L	5.00		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	4.93		ug/L	5.00		98.5	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.99		ug/L	5.00		99.9	80-120			



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Volatile Organic Compounds - Quality Control

Batch BJD0158 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJD0158-BLK1)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 11:21								
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	5.00		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	4.66		ug/L	5.00		93.2	80-120			
Blank (BJD0158-BLK2)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 11:21								
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.18		ug/L	5.00		104	80-129			
Surrogate: Toluene-d8	5.00		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	4.66		ug/L	5.00		93.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.04		ug/L	5.00		101	80-120			
LCS (BJD0158-BS1)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 09:17								
Gasoline Range Organics (Tol-Nap)	970	100	ug/L	1000		97.0	72-128			
Surrogate: Toluene-d8	5.04		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	4.73		ug/L	5.00		94.6	80-120			
LCS (BJD0158-BS2)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 09:59								
Benzene	10.1	0.20	ug/L	10.0		101	80-120			
Toluene	10.2	0.20	ug/L	10.0		102	80-120			
Ethylbenzene	10.1	0.20	ug/L	10.0		101	80-120			
m,p-Xylene	20.8	0.40	ug/L	20.0		104	80-121			
o-Xylene	10.2	0.20	ug/L	10.0		102	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.09		ug/L	5.00		102	80-129			
Surrogate: Toluene-d8	5.00		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	4.94		ug/L	5.00		98.8	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.96		ug/L	5.00		99.2	80-120			
LCS Dup (BJD0158-BSD1)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 09:38								
Gasoline Range Organics (Tol-Nap)	1020	100	ug/L	1000		102	72-128	5.44	30	
Surrogate: Toluene-d8	5.06		ug/L	5.00		101	80-120			



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Volatile Organic Compounds - Quality Control

Batch BJD0158 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BJD0158-BSD1)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 09:38								
Surrogate: 4-Bromofluorobenzene	4.84		ug/L	5.00		96.8	80-120			
LCS Dup (BJD0158-BSD2)		Prepared: 06-Apr-2021 Analyzed: 06-Apr-2021 10:19								
Benzene	10.2	0.20	ug/L	10.0		102	80-120	0.96	30	
Toluene	10.3	0.20	ug/L	10.0		103	80-120	0.55	30	
Ethylbenzene	10.5	0.20	ug/L	10.0		105	80-120	3.14	30	
m,p-Xylene	21.0	0.40	ug/L	20.0		105	80-121	1.03	30	
o-Xylene	10.3	0.20	ug/L	10.0		103	80-121	0.88	30	
Surrogate: 1,2-Dichloroethane-d4	5.02		ug/L	5.00		100	80-129			
Surrogate: Toluene-d8	4.99		ug/L	5.00		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	4.92		ug/L	5.00		98.3	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.03		ug/L	5.00		101	80-120			



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BJC0876 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJC0876-BLK1)		Prepared: 02-Apr-2021 Analyzed: 13-Apr-2021 00:00								
Naphthalene	ND	0.10	ug/L							U
2-Methylnaphthalene	ND	0.10	ug/L							U
1-Methylnaphthalene	ND	0.10	ug/L							U
Acenaphthylene	ND	0.10	ug/L							U
Acenaphthene	ND	0.10	ug/L							U
Dibenzofuran	ND	0.10	ug/L							U
Fluorene	ND	0.10	ug/L							U
Phenanthrene	ND	0.10	ug/L							U
Anthracene	ND	0.10	ug/L							U
Fluoranthene	ND	0.10	ug/L							U
Pyrene	ND	0.10	ug/L							U
Benzo(a)anthracene	ND	0.10	ug/L							U
Chrysene	ND	0.10	ug/L							U
Benzo(b)fluoranthene	ND	0.10	ug/L							U
Benzo(k)fluoranthene	ND	0.10	ug/L							U
Benzo(j)fluoranthene	ND	0.10	ug/L							U
Benzofluoranthenes, Total	ND	0.20	ug/L							U
Benzo(a)pyrene	ND	0.10	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L							U
Dibenzo(a,h)anthracene	ND	0.10	ug/L							U
Benzo(g,h,i)perylene	ND	0.10	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	1.49		ug/L	3.00		49.8	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	1.90		ug/L	3.00		63.4	10-125			

LCS (BJC0876-BS1)		Prepared: 02-Apr-2021 Analyzed: 13-Apr-2021 00:28								
Naphthalene	1.40	0.10	ug/L	3.00		46.5	33-120			
2-Methylnaphthalene	1.45	0.10	ug/L	3.00		48.2	29-120			
1-Methylnaphthalene	1.42	0.10	ug/L	3.00		47.5	37-120			
Acenaphthylene	1.47	0.10	ug/L	3.00		49.0	32-120			
Acenaphthene	1.56	0.10	ug/L	3.00		52.0	38-120			
Dibenzofuran	1.61	0.10	ug/L	3.00		53.7	38-120			
Fluorene	1.69	0.10	ug/L	3.00		56.2	41-120			
Phenanthrene	1.76	0.10	ug/L	3.00		58.5	49-120			
Anthracene	1.78	0.10	ug/L	3.00		59.5	39-120			
Fluoranthene	1.95	0.10	ug/L	3.00		64.9	48-120			



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BJC0876 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJC0876-BS1)		Prepared: 02-Apr-2021 Analyzed: 13-Apr-2021 00:28								
Pyrene	1.94	0.10	ug/L	3.00		64.5	48-120			
Benzo(a)anthracene	1.93	0.10	ug/L	3.00		64.2	37-120			
Chrysene	1.95	0.10	ug/L	3.00		65.0	48-120			
Benzo(b)fluoranthene	1.97	0.10	ug/L	3.00		65.7	38-128			
Benzo(k)fluoranthene	2.11	0.10	ug/L	3.00		70.4	36-130			
Benzo(j)fluoranthene	2.09	0.10	ug/L	3.00		69.6	49-120			
Benzo(a)pyrene	1.71	0.10	ug/L	3.00		57.1	25-120			
Indeno(1,2,3-cd)pyrene	1.84	0.10	ug/L	3.00		61.5	32-120			
Dibenzo(a,h)anthracene	1.88	0.10	ug/L	3.00		62.6	21-120			
Benzo(g,h,i)perylene	1.81	0.10	ug/L	3.00		60.4	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.55		ug/L	3.00		51.8	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.03		ug/L	3.00		67.7	10-125			

Matrix Spike (BJC0876-MS1)		Source: 21C0430-04 Prepared: 02-Apr-2021 Analyzed: 13-Apr-2021 03:38								
Naphthalene	1.59	0.10	ug/L	3.00	ND	52.9	33-120			
2-Methylnaphthalene	1.65	0.10	ug/L	3.00	ND	55.0	29-120			
1-Methylnaphthalene	1.59	0.10	ug/L	3.00	ND	52.9	37-120			
Acenaphthylene	1.71	0.10	ug/L	3.00	ND	57.1	32-120			
Acenaphthene	1.72	0.10	ug/L	3.00	ND	57.3	38-120			
Dibenzofuran	1.78	0.10	ug/L	3.00	ND	59.4	38-120			
Fluorene	1.88	0.10	ug/L	3.00	ND	62.8	41-120			
Phenanthrene	1.93	0.10	ug/L	3.00	ND	64.3	49-120			
Anthracene	2.11	0.10	ug/L	3.00	ND	69.5	39-120			
Fluoranthene	2.29	0.10	ug/L	3.00	ND	76.2	48-120			
Pyrene	2.18	0.10	ug/L	3.00	ND	72.8	48-120			
Benzo(a)anthracene	2.20	0.10	ug/L	3.00	ND	73.4	37-120			
Chrysene	2.17	0.10	ug/L	3.00	ND	72.3	48-120			
Benzo(b)fluoranthene	2.25	0.10	ug/L	3.00	ND	75.0	38-128			
Benzo(k)fluoranthene	2.37	0.10	ug/L	3.00	ND	78.9	36-130			
Benzo(j)fluoranthene	2.40	0.10	ug/L	3.00	ND	79.9	49-120			
Benzo(a)pyrene	2.13	0.10	ug/L	3.00	ND	71.0	25-120			
Indeno(1,2,3-cd)pyrene	2.13	0.10	ug/L	3.00	ND	71.0	32-120			
Dibenzo(a,h)anthracene	2.19	0.10	ug/L	3.00	ND	73.1	21-120			



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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
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Semivolatile Organic Compounds - SIM - Quality Control

Batch BJC0876 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BJC0876-MS1)		Source: 21C0430-04		Prepared: 02-Apr-2021		Analyzed: 13-Apr-2021 03:38				
Benzo(g,h,i)perylene	2.12	0.10	ug/L	3.00	ND	70.7	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.72		ug/L	3.00	1.71	57.2	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.22		ug/L	3.00	2.12	74.0	10-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BJC0876-MSD1)		Source: 21C0430-04		Prepared: 02-Apr-2021		Analyzed: 13-Apr-2021 04:05				
Naphthalene	1.52	0.10	ug/L	3.00	ND	50.8	33-120	4.18	30	
2-Methylnaphthalene	1.55	0.10	ug/L	3.00	ND	51.8	29-120	5.93	30	
1-Methylnaphthalene	1.49	0.10	ug/L	3.00	ND	49.7	37-120	6.22	30	
Acenaphthylene	1.55	0.10	ug/L	3.00	ND	51.7	32-120	9.85	30	
Acenaphthene	1.62	0.10	ug/L	3.00	ND	53.9	38-120	6.21	30	
Dibenzofuran	1.69	0.10	ug/L	3.00	ND	56.5	38-120	5.07	30	
Fluorene	1.71	0.10	ug/L	3.00	ND	57.1	41-120	9.45	30	
Phenanthrene	1.82	0.10	ug/L	3.00	ND	60.5	49-120	6.07	30	
Anthracene	1.95	0.10	ug/L	3.00	ND	64.0	39-120	8.13	30	
Fluoranthene	2.10	0.10	ug/L	3.00	ND	70.1	48-120	8.35	30	
Pyrene	2.01	0.10	ug/L	3.00	ND	67.0	48-120	8.26	30	
Benzo(a)anthracene	2.05	0.10	ug/L	3.00	ND	68.2	37-120	7.32	30	
Chrysene	2.01	0.10	ug/L	3.00	ND	66.9	48-120	7.80	30	
Benzo(b)fluoranthene	2.10	0.10	ug/L	3.00	ND	70.0	38-128	6.94	30	
Benzo(k)fluoranthene	2.25	0.10	ug/L	3.00	ND	75.1	36-130	4.89	30	
Benzo(j)fluoranthene	2.25	0.10	ug/L	3.00	ND	75.1	49-120	6.12	30	
Benzofluoranthenes, Total	6.43	0.20	ug/L	9.00	ND	71.5	46-120	9.52	30	
Benzo(a)pyrene	2.06	0.10	ug/L	3.00	ND	68.6	25-120	3.34	30	
Indeno(1,2,3-cd)pyrene	2.04	0.10	ug/L	3.00	ND	68.1	32-120	4.17	30	
Dibenzo(a,h)anthracene	2.03	0.10	ug/L	3.00	ND	67.7	21-120	7.67	30	
Benzo(g,h,i)perylene	1.98	0.10	ug/L	3.00	ND	66.0	28-120	6.86	30	
Surrogate: 2-Methylnaphthalene-d10	1.58		ug/L	3.00	1.71	52.6	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	1.98		ug/L	3.00	2.12	65.9	10-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Project: Birds Eye
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Petroleum Hydrocarbons - Quality Control

Batch BJC0873 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJC0873-BLK1)				Prepared: 05-Apr-2021 Analyzed: 16-Apr-2021 23:42						
Diesel Range Organics (C12-C24)	ND	0.100	mg/L							U
Motor Oil Range Organics (C24-C38)	ND	0.200	mg/L							U
Surrogate: o-Terphenyl	0.169		mg/L	0.225		74.9	50-150			
LCS (BJC0873-BS1)				Prepared: 05-Apr-2021 Analyzed: 16-Apr-2021 00:03						
Diesel Range Organics (C12-C24)	2.55	0.100	mg/L	3.00		84.9	56-120			
Surrogate: o-Terphenyl	0.197		mg/L	0.225		87.6	50-150			
Matrix Spike (BJC0873-MS1)				Source: 21C0430-04 Prepared: 05-Apr-2021 Analyzed: 16-Apr-2021 01:48						
Diesel Range Organics (C12-C24)	2.43	0.100	mg/L	3.00	ND	81.1	56-120			
Surrogate: o-Terphenyl	0.190		mg/L	0.225	0.146	84.4	50-150			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BJC0873-MSD1)				Source: 21C0430-04 Prepared: 05-Apr-2021 Analyzed: 16-Apr-2021 02:10						
Diesel Range Organics (C12-C24)	1.93	0.100	mg/L	3.00	ND	64.2	56-120	23.30	30	
Surrogate: o-Terphenyl	0.128		mg/L	0.225	0.146	56.9	50-150			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Vinyl Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloroethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Acrolein	DoD-ELAP,NELAP,WADOE
Acrolein	DoD-ELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,CALAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP
Acetone	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE



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1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,WADOE
Iodomethane	DoD-ELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Methylene Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP
Acrylonitrile	DoD-ELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP
Vinyl Acetate	DoD-ELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP
2-Butanone	DoD-ELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE



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cis-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,NELAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP
Benzene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP



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Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP
4-Methyl-2-Pentanone	DoD-ELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP
2-Hexanone	DoD-ELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE



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Tetrachloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dibromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
m,p-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
o-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP
Styrene	DoD-ELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,CALAP,WADOE
Bromoform	DoD-ELAP,NELAP,CALAP



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Bromoform	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,CALAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP
Isopropyl Benzene	DoD-ELAP,NELAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
2-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
4-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP
t-Butylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE



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1,3,5-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,CALAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,NELAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	DoD-ELAP,NELAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,WADOE



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Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP
Naphthalene	DoD-ELAP,ADEC,NELAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dichlorodifluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP
Methyl tert-butyl Ether	DoD-ELAP,ADEC,CALAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Hexane	WADOE
n-Hexane	WADOE
n-Hexane	
n-Hexane	WADOE
2-Pentanone	
2-Pentanone	WADOE
2-Pentanone	WADOE
2-Pentanone	WADOE

EPA 8270E-SIM in Water

Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP



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1-Methylnaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP



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Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP



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Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C12-C24)	DoD-ELAP,WADOE



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Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C25)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Residual Range Organics (C23-C32)	DoD-ELAP



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Residual Range Organics (C23-C32)	DoD-ELAP
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP
JP4 Range Organics (Tol-C14)	DoD-ELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP
Jet-A Range Organics (C10-C18)	DoD-ELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP
Creosote Range Organics (C12-C22)	DoD-ELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP
Bunker C Range Organics (C10-C38)	DoD-ELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP



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Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C6-C10)	ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C5-C12)	DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022



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Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

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