PACIFIC groundwater GROUP

December 18, 2019

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 2019 Q3 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 third quarter 2019 (2019 Q3) at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. 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).

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. The long-term groundwater monitoring events are performed every 18 months and the next event will be March 2020 (2020 Q1).

Analytical results for groundwater samples collected in 2019 Q3 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.

2019 Q3 SEMI-ANNUAL GROUNDWATER SAMPLING SUMMARY

The 2019 Q3 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 September 23, 2019 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 pump. 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 and temporarily stored onsite.

CHEMICALS OF CONCERN AND SITE CLEANUP LEVELS

Groundwater samples were received by Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on September 23, 2019. Samples were stored and delivered in ice chests following standard chain-of-custody procedures.

Groundwater samples were analyzed according to the Washington State Department of Ecology and/or U.S. Environmental Protection Agency 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 (U.S Environmental Protection Agency [EPA] Method 8260).
- PAHs Polynuclear Aromatic Hydrocarbons (EPA Method 8270D with selected ion monitoring modification to achieve required reporting limits).

Groundwater samples collected at the Boiler Room Site between 2001 and March 2015 were analyzed for BTEX compounds by EPA Method 8021. Subsequently, ARI discontinued analyzing water samples for BTEX compounds by Method 8021 and informed PGG



that "Ecology is moving away from that method as it gives false positives" (Bottem 2015). Therefore, samples collected at the Boiler Room Site in 2018 Q3 were analyzed for BTEX compounds by EPA 8260. ARI's BTEX reporting limits for EPA 8260 are equal to or less than those for EPA 8021.

As described in the 2011 RI/FS (PGG 2011) and Semi-Annual Groundwater Monitoring Plan (PGG 2013), standard MTCA (Washington State Department of 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 2019 Q3 groundwater monitoring analytical results are summarized in Table 2 and the analytical lab report is presented in Appendix A.

Toluene was detected in groundwater samples collected at MW-12S and MW-12D with concentrations (0.24 and 0.28 ug/L, respectively). These concentrations are slightly above the reporting limit (0.2 ug/L). The toluene concentrations in samples MW-12S and MW-12D are four orders of magnitude less than the cleanup level (1,000 ug/L). Additionally, toluene was not detected in soil samples collected at the Boiler Room Site during investigations for the 2011 RI/FS. No other contaminants of concern were detected in the 2019 Q3 groundwater samples and analytical reporting limits were less than corresponding Site cleanup levels.

The 2019 Q3 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 2019 Q3 groundwater samples were reviewed by PGG. All requested analyses were performed, and the QA/QC assessments indicated acceptable results with the following notation:

• Laboratory Control Samples and Laboratory Control Sample Duplicates (LCS/LCSD) are types of internal laboratory QA/QC samples. They 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 recovery of total benzofluoranthenes from the PAH LCSD was above control limits. The analytical method for PAHs does not require analysis of an

LCSD. Since total benzofluoranthenes were not detected in the 2019 Q3 ground-water samples, no corrective actions were required, and the data are considered acceptable for purposes of this report 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. Toluene was detected in both the blind field duplicate and in MW-12S. The relative percent differences between the toluene results was 4 percent and within project acceptable limits.

REFERENCES

- Bottem, Kelly. 2015. Email from Kelly Bottem, ARI, to Inger Jackson, Pacific Groundwater Group re: AMQ4 Maytown. September 29, 2015.
- EPA. 2017. National Functional Guidelines for Organic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation (OSRTI). OLEM 9355.0-136. EPA-540-R-2017-002. January 2017.
- 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.
- Washington State Department of Ecology, 2007. Model Toxics Control Act Statute and Regulation. WAC 173-340. Publication No. 94-06. Revised November 2007.



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

2019Q3_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, 2019 Q3

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

Appendix A. ARI Lab Report 19I0367

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

	Units, Datum*	MW-9S	MW-9D	MW-12S	MW-12D
Hairma Mall ID (HIMID)		Not	Not	DIII 104	DIII 102
Unique Well ID (UWID)		available	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		← Sherw	ood High Traf	fic Flush Monu	ment -

^{*} Vertical and Horizontal Datums use the Washington State Reference Network

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2019 Q3

		Site Cleanup				
CONSTITUENT	UNITS	Levels*	MW-9S	MW-9D	MW-12S	MW-12I
Field Parameters						
Depth to Water	feet		17.5	17.88	18.45	18.62
pH, Field	std. units		6.57	6.81	7.05	7.34
Specific Conductance, Field	umhos/cm		283	363.8	795.2	662.2
Temperature (C)	С		15	15	16.3	16.1
Turbidity, Field	NTU		2.22	2.02	27.41	3.87
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	0.24	0.28
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
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 \
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

 $^{{\}it B}$ - Compound detected in blank



Birds Eye Semi-Annual Monitoring Plan



07 October 2019

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)
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 itentirety.

Accreditation # 66169

Sil Botte

Chain of Custody Record & Laboratory Analysis Request Analytical Resources, Incorporated ARI Assigned Number: Turn-around Requested: Page: of Analytical Chemists and Consultants ARDCII en Company: Tout Company: 4611 South 134th Place, Suite 100 Phone: Date: Ice 2010 329 014/ext 204 Tukwila, WA 98168 Present? 206-695-6200 206-695-6201 (fax) Client Contact: No. of Cooler 9.00 www.arilabs.com Temps: 10.61 Coolers: Client Project Name: Analysis Requested Notes/Comments Client Project T. Klaas lart son Sample ID Date Time Matrix No. Containers GW 1330 5 2 1030 15 27 1050 6 1045 Relinquished by: Received by: (Signature) (Signature) Printed Name: Printed Name:

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, not withstanding any provision to the contrary in any contract, purchase order or cosigned agreement between ARI and the Client.

Company:

Date & Time:

Company:

Date & Time

Company

1615

Company

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 GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeReported:Seattle WA, 98102Project Manager:Inger Jackson07-Oct-2019 12:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9S	19I0367-01	Water	23-Sep-2019 13:30	23-Sep-2019 16:15
MW-9D	19I0367-02	Water	23-Sep-2019 14:45	23-Sep-2019 16:15
MW-12S	19I0367-03	Water	23-Sep-2019 10:30	23-Sep-2019 16:15
MW-12D	19I0367-04	Water	23-Sep-2019 10:50	23-Sep-2019 16:15
MW-22S	19I0367-05	Water	23-Sep-2019 10:45	23-Sep-2019 16:15
Trip Blanks	19I0367-06	Water	23-Sep-2019 14:45	23-Sep-2019 16:15



Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Seattle WA, 98102 Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

Work Order Case Narrative

Volatiles - EPA Method SW8260C

The sample(s) were run 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.

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

The LCS/LCSD percent recoveries and RPD were within control limits.

The Matrix Spike/Matrix Spike duplicate recoveries and RPD were within limits.

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270D-SIM

The sample(s) were extracted and 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.

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

The LCS percent recoveries were within control limits with the exception of analytes flagged on the associated forms.

The Matrix Spike/Matrix Spike duplicate recoveries and RPD were within limits.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

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.

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.





Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

The LCS percent recoveries were within control limits.

Gasoline Range Organics - WA-Ecology Method NW-TPHG

The sample(s) were run 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 LCS percent recoveries were within control limits.

The Matrix Spike/Matrix Spike duplicate recoveries and RPD were within limits.



WORK ORDER

1910367

Client: Pacific	c Groundwater Group	Proj	ect Manager	: Kelly Bottem	
Project: Birds	Eye	Proj	ect Number:	Birds Eye	
Report To:		Invoi	ce To:		
Pacific Groundy	vater Group	Pacif	ic Groundwa	ter Group	
Inger Jackson		Inger	Jackson		
2377 Eastlake A	ve. E. Suite 200	2377	Eastlake Ave	e. E. Suite 200	
Seattle, WA 981	02	Seatt	le, WA 98102	2	
Phone: (206) 32	9-0141		e :(206) 329-		
Fax: -		Fax:			
Date Due:	08-Oct-2019 18:00 (10 day TAT)				
Received By:	Jacob Walter	Date	Received:	23-Sep-2019 16:15	
Logged In By:	Kenny Dang	Date	Logged In:	23-Sep-2019 17:43	
Samples Received at	:10.6°C				
	igned and dated custody seals attached to outside of cooler(s			pers included with the cooler	
	properly filled out (in, signed, analyses requested, etc)e used (if appropriate)			erature blank included in the coolerealed in individual plastic bags	No
All bottles arrive	d in good condition (unbroken)	Yes		bels complete and legible	
Number of conta	iners listed on COC match number received	Yes	Bottle labels	s and tags agree with COC	Yes
	sed for the requested analyses		All VOC via	als free of air bubbles	No
	require preservation (attach preservation sheet excluding VO		Sufficient ar	mount of sample sent in each bottle	Yes
Sample split at A	RI	No			
Analysis	Due TAT		Expires	Comments	



8260C Gas (NWTPH)

WORK ORDER

1910367

Client: Pacific Groundwater Group Project Manager: Kelly Bottem
Project: Birds Eye Project Number: Birds Eye

08-Oct-2019 15:00

10

07-Oct-2019 10:50 Client gets raw data

Analysis	Due	TAT	Expires (Comments
1910367-01 MW-9S [Water Time (US & Canada)	Sampled 23-Sep-2019 13:	30 (G	MT-08:00) Pacific	
A = Glass NM, Amber, 500 mL	B = Glass NM, Amber, 500 mL	C	= Glass NM, Amber, 500 mL	D = Glass NM, Amber, 500 mL
E = VOA Vial, Clear, 40 mL, HCL	F = VOA Vial, Clear, 40 mL, HCL		= VOA Vial, Clear, 40 mL, H	
l = VOA Vial, Clear, 40 mL, HCL				
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 13:30	
8270D-SIM PAH (0.1 ug/L or 5 u	ug/kg) 08-Oct-2019 15:00	10	30-Sep-2019 13:30	
TPH NW (Extractables) low leve	1 08-Oct-2019 15:00	10	30-Sep-2019 13:30 (Client gets raw data
8260C Gas (NWTPH)	08-Oct-2019 15:00	10	07-Oct-2019 13:30 (Client gets raw data
1910367-02 MW-9D Water Time (US & Canada)	r Sampled 23-Sep-2019 14	:45 (0	GMT-08:00) Pacific	
A = Glass NM, Amber, 500 mL	B = Glass NM, Amber, 500 mL	С	= Glass NM, Amber, 500 mL	D = Glass NM, Amber, 500 mL
E = VOA Vial, Clear, 40 mL, HCL	F = VOA Vial, Clear, 40 mL, HCL	G	= VOA Vial, Clear, 40 mL, H	ICL $H = VOA Vial, Clear, 40 mL, HCL$
I = VOA Vial, Clear, 40 mL, HCL	A CONTRACTOR OF THE CONTRACTOR			
8260C Gas (NWTPH)	08-Oct-2019 15:00	10	07-Oct-2019 14:45 (Client gets raw data
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 14:45	
8270D-SIM PAH (0.1 ug/L or 5 t	1g/kg) 08-Oct-2019 15:00	10	30-Sep-2019 14:45	
TPH NW (Extractables) low leve	1 08-Oct-2019 15:00	10	30-Sep-2019 14:45 (Client gets raw data
1910367-03 MW-12S [Water Time (US & Canada)	er Sampled 23-Sep-2019 10):30 (0	GMT-08:00) Pacific	
A = Glass NM, Amber, 500 mL	B = Glass NM, Amber, 500 mL	C	= Glass NM, Amber, 500 mL	D = Glass NM, Amber, 500 mL
E = VOA Vial, Clear, 40 mL, HCL	F = VOA Vial, Clear, 40 mL, HCL	G	= VOA Vial, Clear, 40 mL, H	HCL $H = VOA Vial, Clear, 40 mL, HCL$
I = VOA Vial, Clear, 40 mL, HCL		***************************************		
8270D-SIM PAH (0.1 ug/L or 5 ι	ıg/kg) 08-Oct-2019 15:00	10	30-Sep-2019 10:30	
8260C Gas (NWTPH)	08-Oct-2019 15:00	10	07-Oct-2019 10:30 (Client gets raw data
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 10:30	
TPH NW (Extractables) low leve	l 08-Oct-2019 15:00	10	30-Sep-2019 10:30 (Client gets raw data
1910367-04 MW-12D [Water Time (US & Canada)	er] Sampled 23-Sep-2019 10	0:50 (GMT-08:00) Pacific	MS/MSD
A = Glass NM, Amber, 500 mL	AA = VOA Vial, Clear, 40 mL, HC	L B	= Glass NM, Amber, 500 mL	C = Glass NM, Amber, 500 mL
D = Glass NM, Amber, 500 mL	E = Glass NM, Amber, 500 mL	F	= Glass NM, Amber, 500 mL	G = Glass NM, Amber, 500 mL
H = Glass NM, Amber, 500 mL	I = Glass NM, Amber, 500 mL	J =	= Glass NM, Amber, 500 mL	K = Glass NM, Amber, 500 mL
L = Glass NM, Amber, 500 mL	M = VOA Vial, Clear, 40 mL, HCI	L N	= VOA Vial, Clear, 40 mL, H	CL $O = VOA Vial, Clear, 40 mL, HCL$
P = VOA Vial, Clear, 40 mL, HCL	Q = VOA Vial, Clear, 40 mL, HCL		= VOA Vial, Clear, 40 mL, H	S 10 00
T = VOA Vial, Clear, 40 mL, HCL	U = VOA Vial, Clear, 40 mL, HCL		= VOA Vial, Clear, 40 mL, H	
X = VOA Vial, Clear, 40 mL, HCL	Y = VOA Vial, Clear, 40 mL, HCL	Z =	= VOA Vial, Clear, 40 mL, H	CL
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 10:50	
8270D-SIM PAH (0.1 ug/L or 5 ι	1g/kg) 08-Oct-2019 15:00	10	30-Sep-2019 10:50	
TPH NW (Extractables) low leve	1 08-Oct-2019 15:00	10	30-Sep-2019 10:50 (Client gets raw data
OO COC C AUTUTOUS	00 0 . 0010 17 00	* **	A	and a second of the second of

Printed: 9/23/2019 6:06:39PM

WORK ORDER

1910367

Client: Pacific Groundwater Group Project Manager: Kelly Bottem
Project: Birds Eye Project Number: Birds Eye

Analysis	Due	TAT	Γ Expires	Comments
1910367-05 MW-22S [Water Time (US & Canada)	Sampled 23-Sep-2019 10	:45	(GMT-08:00) Pacific	
	B = Glass NM, Amber, 500 mL F = VOA Vial, Clear, 40 mL, HCL		C = Glass NM, Amber, 500 n G = VOA Vial, Clear, 40 mL,	
TPH NW (Extractables) low level	08-Oct-2019 15:00	10	30-Sep-2019 10:45	Client gets raw data
8260C Gas (NWTPH)	08-Oct-2019 15:00	10	07-Oct-2019 10:45	Client gets raw data
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 10:45	
8270D-SIM PAH (0.1 ug/L or 5 ug	ykg) 08-Oct-2019 15:00	10	30-Sep-2019 10:45	
1910367-06 Trip Blanks [Wa Pacific Time (US & Canada)	ter Sampled 23-Sep-2019	14:	45 (GMT-08:00)	
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL			
8260C VOA	08-Oct-2019 15:00	10	07-Oct-2019 14:45	
8260C Gas (NWTPH)	08-Oct-2019 15:00	10	07-Oct-2019 14:45	Client gets raw data

Reviewed By

Date



Cooler Receipt Form

ARI Client: P6-6-		Project Name:	Birds Ey	e	
COC No(s):	(NA)	Delivered by: Fed-Ex U	PS Courier Hand Deliver	ed Other:	
Assigned ARI Job No:	0367	Tracking No:		-	NA
Preliminary Examination Phase:					
Were intact, properly signed and d	ated custody seals attached to the	e outside of the cooler?	Y	ES (NO
Were custody papers included with	the cooler?		X	ES	NO
Were custody papers properly filled Temperature of Cooler(s) (°C) (rec		try)		ES	NO
Time 1615		10,609.	0°C		
If cooler temperature is out of comp	pliance fill out form 00070F		Temp Gun ID# <u>:</u>	D00 5dc	06
Cooler Accepted by:	JJ- 0	Date: 09/03/19	Time:1615		
	Complete custody forms and	l attach all shipping docu	ments		
Log-In Phase:					,
Was a temperature blank include	d in the cooler?			YES	NO.
What kind of packing material v		Wet toe Gel Packs Baggie	s Foam Block Paper Oth		
Was sufficient ice used (if approp	riate)?		NA	YES	NO
How were bottles sealed in plastic	c bags?		Individually	Grouped	Not
Did all bottles arrive in good cond	lition (unbroken)?		X.94	YES	NO
Were all bottle labels complete ar	nd legible?	***************************************		YES	NO
Did the number of containers liste	ed on COC match with the number	r of containers received?	***********	YES	NO
Did all bottle labels and tags agre	ee with custody papers?		X20.0X30M	YES	NO
Were all bottles used correct for t	he requested analyses?			YES	NO
Do any of the analyses (bottles) r	equire preservation? (attach prese	ervation sheet, excluding V	OCs) NA	YES	NO
Were all VOC vials free of air bub	obles?		NA	YES	(NO)
Was sufficient amount of sample	sent in each bottle?			YES	NO
Date VOC Trip Blank was made a	at ARI	************	NA		
Were the sample(s) split by ARI?	YES Date/Time:	Equipment:	-	Split by:	
VO	010011	a 19111	ı	140	
Samples Logged by:		9 Time: 1744	594.5	KU	
	** Notify Project Manager of	f discrepancies or concer	ns **		
Sample ID on Bottle	Comple ID on COC	Commis ID on Bott	de Commit	- ID COC	
Sample ID on Bottle	Sample ID on COC	Sample ID on Bott	ie Sampi	e ID on COC	
Additional Notes, Discrepancie	es, & Resolutions:				
	not listed e	on GOC			
By: KO Da	te: 9/23/19				



Cooler Temperature Compliance Form

ARI Work			
Cooler#:	Tempe	rature(°C):	16"(
Sample ID		Bottle Count	Bottle Type
	<u> </u>		
Cooler#:	Tempe	rature(°C):	.0 (
Sample ID		Bottle Count	Bottle Type
Cooler#:	Tempe	rature(°C):	
Sample ID		Bottle Count	Bottle Type
Cooler#:	Tempe	rature(°C):	
Sample ID		Bottle Count	Bottle Type
Completed by:_	30~	Date	: 09/23/19 Time: 1615

Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9S 19I0367-01 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 13:30

 Instrument: NT2 Analyst: LH
 Analyzed: 09/25/2019 15:45

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-01 I

Preparation Batch: BHI0709 Sample Size: 10 mL Prepared: 25-Sep-2019 Final Volume: 10 mL

· · ·			D			
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: Toluene-d8			80-120 %	97.2	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	108	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	99.2	%	



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9S 19I0367-01 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 09/23/2019 13:30

 Instrument: NT2 Analyst: LH
 Analyzed: 09/25/2019 15:45

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-01 I

Preparation Batch: BHI0709 Sample Size: 10 mL Prepared: 25-Sep-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Units Analyte Result Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 97.2 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 108 %



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9S 19I0367-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIMSampled: 09/23/2019 13:30Instrument: NT8 Analyst: JZAnalyzed: 10/03/2019 18:26Sample Preparation:Preparation Method: EPA 3520C (Liq Liq)Extract ID: 1910367-01 A 01

Preparation Batch: BHI0863 Sample Size: 500 mL
Prepared: 30-Sep-2019 Final Volume: 0.5 mL

Prepared: 30-Sep-2019	Final Volume: 0	.5 mL				
			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Naphthalene	91-20-3	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
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
Benzofluoranthenes, 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		<u> </u>	31-120 %	73.2	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	87.4	%	

Analytical Resources, Inc.

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

MW-9S 19I0367-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 09/23/2019 13:30
Instrument: FID3 Analy	vst: VTS			Analyzed: 10/04/2019 16:41
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHI0864 Prepared: 30-Sep-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19I0367-01 B 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHJ0031 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19I0367-01 B 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHJ0030 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19I0367-01 B 01
Analyte		CAS Number Dilution	Reporting Limit	Result Units Notes

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 %	79.1	%	

Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9D 19I0367-02 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 14:45

 Instrument: NT2 Analyst: LH
 Analyzed: 09/25/2019 16:05

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-02 H

Preparation Batch: BHI0709 Sample Size: 10 mL Prepared: 25-Sep-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	95.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	103	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	103	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9D

19I0367-02 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 09/23/2019 14:45

 Instrument: NT2
 Analyst: LH

 Analyzed: 09/25/2019 16:05

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 1910367-02 H

Preparation Batch: BHI0709 Sample Size: 10 mL Prepared: 25-Sep-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Units Analyte Result Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 95.3 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 103 %



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-9D 19I0367-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIMSampled: 09/23/2019 14:45Instrument: NT8 Analyst: JZAnalyzed: 10/03/2019 18:52Sample Preparation:Preparation Method: EPA 3520C (Liq Liq)Extract ID: 1910367-02 A 01

Preparation Batch: BHI0863 Sample Size: 500 mL

Prepared: 30-Sep-2019 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
·		Britation				
Naphthalene	91-20-3	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
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
Benzofluoranthenes, 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		<u> </u>	31-120 %	63.7	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	98.9	%	

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

MW-9D 19I0367-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 09/23/2019 14:45
Instrument: FID3 Analy	vst: VTS			Analyzed: 10/04/2019 17:01
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHI0864 Prepared: 30-Sep-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19I0367-02 B 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHJ0031 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19I0367-02 B 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHJ0030 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19I0367-02 B 01
		CAGNA I PIL	Reporting	D. H. W.

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 %	91.5	%	

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Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12S 19I0367-03 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 10:30

 Instrument: NT2 Analyst: LH
 Analyzed: 09/25/2019 16:26

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-03 H

Preparation Batch: BHI0709 Sample Size: 10 mL Prepared: 25-Sep-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	0.24	ug/L	
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: Toluene-d8			80-120 %	95.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	102	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	103	%	



Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12S 19I0367-03 (Water)

Volatile Organic Compounds

Method: NWTPHg Sampled: 09/23/2019 10:30 Instrument: NT2 Analyst: LH Analyzed: 09/25/2019 16:26 Extract ID: 19I0367-03 H

Preparation Method: EPA 5030 (Purge and Trap) Sample Preparation: Preparation Batch: BHI0709 Sample Size: 10 mL

Prepared: 25-Sep-2019 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 %	95.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	102	%	



Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12S 19I0367-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIMSampled: 09/23/2019 10:30Instrument: NT8 Analyst: JZAnalyzed: 10/03/2019 19:18Sample Preparation:Preparation Method: EPA 3520C (Liq Liq)Extract ID: 1910367-03 A 01

Preparation Batch: BHI0863 Sample Size: 500 mL

Prepared: 30-Sep-2019 Final Volume: 0.5 mL Reporting CAS Number Limit Analyte Dilution Result Units Notes 91-20-3 U Naphthalene 0.10 ND ug/L Acenaphthylene 208-96-8 0.10 ND U ug/L Acenaphthene 83-32-9 0.10 ND ug/L U Fluorene 86-73-7 ND ug/L U 0.10 85-01-8 Phenanthrene 0.10 ND U ug/L Anthracene 120-12-7 0.10 ND U ug/L 206-44-0 Fluoranthene ND IJ 0.10 ug/L 129-00-0 ND IJ Pyrene 0.10 ug/L Benzo(a)anthracene 56-55-3 0.10 ND IJ ug/L Chrysene 218-01-9 0.10 ND ug/L U Benzofluoranthenes, Total ND U 0.20 ug/L 50-32-8 ND U Benzo(a)pyrene 0.10ug/L 193-39-5 ND U Indeno(1,2,3-cd)pyrene 0.10ug/L 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 % 65.8 % 10-125 % 98.2 % Surrogate: Dibenzo[a,h]anthracene-d14

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

MW-12S 19I0367-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 09/23/2019 10:30
Instrument: FID3 Analys	st: VTS		Analyzed: 10/04/2019 17:22
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHI0864	Sample Size: 500 mL	Extract ID: 19I0367-03 B 01
	Prepared: 30-Sep-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 19I0367-03 B 01
	Cleanup Batch: CHJ0031	Initial Volume: 1 mL	
	Cleaned: 04-Oct-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:19I0367-03 B 01
	Cleanup Batch: CHJ0030	Initial Volume: 1 mL	
	Cleaned: 04-Oct-2019	Final Volume: 1 mL	
			Reporting

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 %	84.7	%	

Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12D 19I0367-04 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 10:50

 Instrument: NT2
 Analyst: PKC

 Analyzed: 09/26/2019 16:43

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-04 P

Preparation Batch: BHI0785 Sample Size: 10 mL Prepared: 26-Sep-2019 Final Volume: 10 mL

1 1						
			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	0.28	ug/L	
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: Toluene-d8			80-120 %	92.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	93.0	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	



Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12D 19I0367-04 (Water)

Volatile Organic Compounds

Method: NWTPHg Sampled: 09/23/2019 10:50 Instrument: NT2 Analyst: PKC Analyzed: 09/26/2019 16:43 Extract ID: 19I0367-04 P

Preparation Method: EPA 5030 (Purge and Trap) Sample Preparation: Preparation Batch: BHI0785 Sample Size: 10 mL

Prepared: 26-Sep-2019 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 %	92.5	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	93.0	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-12D 19I0367-04 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIMSampled: 09/23/2019 10:50Instrument: NT8 Analyst: JZAnalyzed: 10/03/2019 19:43Sample Preparation:Preparation Method: EPA 3520C (Liq Liq)Extract ID: 1910367-04 B 01

Preparation Batch: BHI0863 Sample Size: 500 mL

Prepared: 30-Sep-2019 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
•		Billation				
Naphthalene	91-20-3	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
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
Benzofluoranthenes, 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 %	67.7	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	98.8	%	

Analytical Resources, Inc.

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

MW-12D 19I0367-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 09/23/2019 10:50
Instrument: FID3 Analy	st: VTS			Analyzed: 10/04/2019 17:42
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHI0864 Prepared: 30-Sep-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19I0367-04 C 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHJ0031 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19I0367-04 C 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHJ0030 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19I0367-04 C 01
		2121	Reporting	

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 %	85.5	%	

Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-22S 19I0367-05 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 10:45

 Instrument: NT2 Analyst: PKC
 Analyzed: 09/26/2019 17:03

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-05 G

Preparation Batch: BHI0785 Sample Size: 10 mL Prepared: 26-Sep-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	0.25	ug/L	
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: Toluene-d8			80-120 %	93.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	92.7	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	104	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-22S 19I0367-05 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 09/23/2019 10:45

 Instrument: NT2 Analyst: PKC
 Analyzed: 09/26/2019 17:03

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-05 G

Preparation Batch: BHI0785 Sample Size: 10 mL Prepared: 26-Sep-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Units Analyte Result Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 93.0 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 92.7 %



Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

MW-22S 19I0367-05 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIM Sampled: 09/23/2019 10:45 Instrument: NT8 Analyst: JZ Analyzed: 10/03/2019 21:01 Preparation Method: EPA 3520C (Liq Liq) Sample Preparation: Extract ID: 19I0367-05 A 01

Preparation Batch: BHI0863 Sample Size: 500 mL

Prepared: 30-Sep-2019 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Analyte	CAS Number	Dilution	Eiiiit	Result	Omis	Notes
Naphthalene	91-20-3	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
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
Benzofluoranthenes, 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		<u> </u>	31-120 %	59.6	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	93.2	%	

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

MW-22S 19I0367-05 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 09/23/2019 10:45
Instrument: FID3 Analy	vst: VTS			Analyzed: 10/04/2019 18:43
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHI0864 Prepared: 30-Sep-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 1910367-05 B 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHJ0031 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19I0367-05 B 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHJ0030 Cleaned: 04-Oct-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19I0367-05 B 01
Analysta		CAS Nyambon Dilytion	Reporting	Damlt Huita Notas

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 %	80.4	%	

Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

Trip Blanks 19I0367-06 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 09/23/2019 14:45

 Instrument: NT2
 Analyst: PKC

 Analyzed: 09/26/2019 14:21

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-06 A

Preparation Batch: BHI0785 Sample Size: 10 mL Prepared: 26-Sep-2019 Final Volume: 10 mL

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		GAGNI I	D.1:	Reporting	D 1:	TT 1.	N
Analyte		CAS Number	Dilution	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: Toluene-d8				80-120 %	93.9	%	
Surrogate: 4-Bromofluorobe	enzene			80-120 %	95.9	%	
Surrogate: 1,2-Dichlorobenz	zene-d4			80-120 %	101	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

Trip Blanks 19I0367-06 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 09/23/2019 14:45

 Instrument: NT2 Analyst: PKC
 Analyzed: 09/26/2019 14:21

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19I0367-06 A

Preparation Batch: BHI0785 Sample Size: 10 mL Prepared: 26-Sep-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Units Analyte Result Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 93.9 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 95.9 %



Reported:

07-Oct-2019 12:54



Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Seattle WA, 98102 Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Volatile Organic Compounds - Quality Control

Batch BHI0709 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: LH

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BHI0709-BLK1)			Prepa	ared: 25-Sep	-2019 Ar	nalyzed: 25-S	Sep-2019 09):59		
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.81		ug/L	5.00		96.1	80-120			
Surrogate: 4-Bromofluorobenzene	5.11		ug/L	5.00		102	80-120			
Blank (BHI0709-BLK2)			Prepa	ared: 25-Sep	-2019 Ar	nalyzed: 25-S	Sep-2019 09):59		
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: Toluene-d8	4.81		ug/L	5.00		96.1	80-120			
Surrogate: 4-Bromofluorobenzene	5.11		ug/L	5.00		102	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.04		ug/L	5.00		101	80-120			
LCS (BHI0709-BS1)			Prepa	ared: 25-Sep	-2019 Ar	nalyzed: 25-8	Sep-2019 07	7:17		
Gasoline Range Organics (Tol-Nap)	1110	100	ug/L	1000		111	72-128			
Surrogate: Toluene-d8	4.97		ug/L	5.00	_	99.3	80-120			
Surrogate: 4-Bromofluorobenzene	5.50		ug/L	5.00		110	80-120			
LCS (BHI0709-BS2)			Prepa	ared: 25-Sep	-2019 Ar	nalyzed: 25-8	Sep-2019 08	3:18		
Benzene	9.87	0.20	ug/L	10.0		98.7	80-120			
Toluene	9.78	0.20	ug/L	10.0		97.8	80-120			
Ethylbenzene	10.1	0.20	ug/L	10.0		101	80-120			
m,p-Xylene	21.7	0.40	ug/L	20.0		108	80-121			
o-Xylene	11.2	0.20	ug/L	10.0		112	80-121			
Surrogate: Toluene-d8	4.97		ug/L	5.00		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	5.53		ug/L	5.00		111	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.96		ug/L	5.00		99.3	80-120			
LCS Dup (BHI0709-BSD1)			Prepa	ared: 25-Sep	-2019 Ar	nalyzed: 25-8	Sep-2019 07	7:58		
Gasoline Range Organics (Tol-Nap)	846	100	ug/L	1000		84.6	72-128	27.00	30	
Surrogate: Toluene-d8	4.91		ug/L	5.00		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	5.50		ug/L	5.00		110	80-120			

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Seattle WA, 98102

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

Reported: 07-Oct-2019 12:54

Volatile Organic Compounds - Quality Control

Batch BHI0709 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: LH

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS Dup (BHI0709-BSD2)			Prepa	ared: 25-Sep	-2019 An	alyzed: 25-	Sep-2019 08	3:38		
Benzene	9.81	0.20	ug/L	10.0		98.1	80-120	0.54	30	
Toluene	9.76	0.20	ug/L	10.0		97.6	80-120	0.25	30	
Ethylbenzene	10.3	0.20	ug/L	10.0		103	80-120	1.86	30	
m,p-Xylene	22.0	0.40	ug/L	20.0		110	80-121	1.58	30	
o-Xylene	11.3	0.20	ug/L	10.0		113	80-121	1.00	30	
Surrogate: Toluene-d8	4.95		ug/L	5.00		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	5.52		ug/L	5.00		110	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.08		ug/L	5.00		102	80-120			



Reported:

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Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Seattle WA, 98102 Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Volatile Organic Compounds - Quality Control

Batch BHI0785 - EPA 5030 (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 (BHI0785-BLK1)				ared: 26-Sep						
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L	лец. 20-вер	, 2017 Alli	aryzou. 20-i	эор-2019 13	,.20		U
Surrogate: Toluene-d8	4.76		ug/L	5.00		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	4.95		ug/L	5.00		98.9	80-120			
Blank (BHI0785-BLK2)			Prepa	ared: 26-Sep	-2019 Ana	alyzed: 26-S	Sep-2019 13	3:20		
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: Toluene-d8	4.76		ug/L	5.00		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	4.95		ug/L	5.00		98.9	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.99		ug/L	5.00		99.7	80-120			
LCS (BHI0785-BS1)			Prepa	ared: 26-Sep	-2019 Ana	alyzed: 26-S	Sep-2019 10):56		
Gasoline Range Organics (Tol-Nap)	1050	100	ug/L	1000		105	72-128			
Surrogate: Toluene-d8	5.00		ug/L	5.00		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	5.43		ug/L	5.00		109	80-120			
LCS (BHI0785-BS2)			Prepa	ared: 26-Sep	-2019 Ana	alyzed: 26-S	Sep-2019 11	1:37		
Benzene	10.0	0.20	ug/L	10.0		100	80-120			
Toluene	9.82	0.20	ug/L	10.0		98.2	80-120			
Ethylbenzene	10.4	0.20	ug/L	10.0		104	80-120			
m,p-Xylene	22.0	0.40	ug/L	20.0		110	80-121			
o-Xylene	11.5	0.20	ug/L	10.0		115	80-121			
Surrogate: Toluene-d8	4.93		ug/L	5.00		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	5.56		ug/L	5.00		111	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.09		ug/L	5.00		102	80-120			
LCS Dup (BHI0785-BSD1)			Prepa	ared: 26-Sep	o-2019 Ana	alyzed: 26-S	Sep-2019 11	1:16		
Gasoline Range Organics (Tol-Nap)	1070	100	ug/L	1000		107	72-128	2.23	30	
Surrogate: Toluene-d8	4.98		ug/L	5.00		99.7	80-120			
Surrogate: 4-Bromofluorobenzene	5.56		ug/L	5.00		111	80-120			

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Seattle WA, 98102

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

Reported: 07-Oct-2019 12:54

Volatile Organic Compounds - Quality Control

Batch BHI0785 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: PKC

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS Dup (BHI0785-BSD2)			Prepa	ared: 26-Sep	-2019 Ana	alyzed: 26-9	Sep-2019 11	:57		
Benzene	9.91	0.20	ug/L	10.0		99.1	80-120	1.32	30	
Toluene	9.69	0.20	ug/L	10.0		96.9	80-120	1.29	30	
Ethylbenzene	10.1	0.20	ug/L	10.0		101	80-120	3.36	30	
m,p-Xylene	21.4	0.40	ug/L	20.0		107	80-121	2.59	30	
o-Xylene	11.1	0.20	ug/L	10.0		111	80-121	3.56	30	
Surrogate: Toluene-d8	4.97		ug/L	5.00		99.4	80-120			
Surrogate: 4-Bromofluorobenzene	5.38		ug/L	5.00		108	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.11		ug/L	5.00		102	80-120			

Matrix Spike (BHI0785-MS2)	Source: 1	910367-04	Prepa	ared: 26-Sep-	-2019 Aı	nalyzed: 26-	Sep-2019 20:06
Benzene	10.3	0.20	ug/L	10.0	ND	103	80-120
Toluene	10.3	0.20	ug/L	10.0	0.28	100	80-120
Ethylbenzene	10.4	0.20	ug/L	10.0	ND	104	80-120
m,p-Xylene	22.1	0.40	ug/L	20.0	ND	111	80-121
o-Xylene	11.2	0.20	ug/L	10.0	ND	112	80-121
Surrogate: Toluene-d8	4.93		ug/L	5.00	4.63	98.5	80-120
Surrogate: 4-Bromofluorobenzene	5.32		ug/L	5.00	4.65	106	80-120
Surrogate: 1,2-Dichlorobenzene-d4	5.09		ug/L	5.00	5.12	102	80-120

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

Matrix Spike (BHI0785-MS3)	Source: 19	10367-04	Prepa	ared: 26-Sep-	2019 A	nalyzed: 26-	Sep-2019 20:47
Gasoline Range Organics (Tol-Nap)	931	100	ug/L	1000	ND	93.1	72-128
Surrogate: Toluene-d8	5.00		ug/L	5.00	4.63	100	80-120
Surrogate: 4-Bromofluorobenzene	5.24		ug/L	5.00	4.65	105	80-120

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

Matrix Spike Dup (BHI0785-MSD2)	Source:	1910367-04	Prepa	red: 26-Sep	-2019 A	nalyzed: 26-	Sep-2019 20	:26	
Benzene	10.2	0.20	ug/L	10.0	ND	102	80-120	1.22	30
Toluene	10.2	0.20	ug/L	10.0	0.28	99.3	80-120	0.75	30
Ethylbenzene	10.3	0.20	ug/L	10.0	ND	103	80-120	0.24	30
m,p-Xylene	22.0	0.40	ug/L	20.0	ND	110	80-121	0.57	30
o-Xylene	11.2	0.20	ug/L	10.0	ND	112	80-121	0.16	30
Surrogate: Toluene-d8	4.95		ug/L	5.00	4.63	99.0	80-120		
Surrogate: 4-Bromofluorobenzene	5.18		ug/L	5.00	4.65	104	80-120		

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Seattle WA, 98102

Project: Birds Eye Project Number: Birds Eye

Project Number:Birds EyeReported:Project Manager:Inger Jackson07-Oct-2019 12:54

Volatile Organic Compounds - Quality Control

Batch BHI0785 - EPA 5030 (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
Matrix Spike Dup (BHI0785-MSD2)	Source: 1	910367-04	Prepa	red: 26-Sep	-2019 Ana	alyzed: 26-S	Sep-2019 20	:26		
Surrogate: 1,2-Dichlorobenzene-d4	5.01		ug/L	5.00	5.12	100	80-120			

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

Matrix Spike Dup (BHI0785-MSD3)	Source: 1	910367-04	Prepa	red: 26-Sep-	-2019 A	nalyzed: 26-	Sep-2019 21	:08		
Gasoline Range Organics (Tol-Nap)	911	100	ug/L	1000	ND	91.1	72-128	2.18	30	
Surrogate: Toluene-d8	4.99		ug/L	5.00	4.63	99.9	80-120			
Surrogate: 4-Bromofluorobenzene	5.19		ug/L	5.00	4.65	104	80-120			

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





Seattle WA, 98102

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

Reported: 07-Oct-2019 12:54

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHI0863 - 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 (BHI0863-BLK1) Naphthalene	ND	0.10	ug/L	ared: 30-Sep	-2019 Ana	nyzea: 03-0	JCI-2019 1/	:08		U
Acenaphthylene	ND	0.10	ug/L ug/L							U
Acenaphthene	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
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	2.15		ug/L	3.00		71.7	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.96		ug/L	3.00		98.6	10-125			
LCS (BHI0863-BS1)			Prena	ared: 30-Sep	-2019 Ana	alvzed: 03-0	Oct-2019 17	:34		
Naphthalene	1.72	0.10	ug/L	3.00		57.3	33-120			
Acenaphthylene	1.73	0.10	ug/L	3.00		57.5	32-120			
Acenaphthene	1.90	0.10	ug/L	3.00		63.4	38-120			
Fluorene	2.05	0.10	ug/L	3.00		68.5	41-120			
Phenanthrene	2.34	0.10	ug/L	3.00		78.1	49-120			
Anthracene	2.27	0.10	ug/L	3.00		75.8	39-120			
Fluoranthene	2.65	0.10	ug/L	3.00		88.3	48-120			
Pyrene	2.75	0.10	ug/L	3.00		91.8	48-120			
Benzo(a)anthracene	2.32	0.10	ug/L	3.00		77.4	37-120			
Chrysene	2.75	0.10	ug/L	3.00		91.6	48-120			
Benzofluoranthenes, Total	10.8	0.20	ug/L	9.00		120	46-120			
Benzo(a)pyrene	2.50	0.10	ug/L	3.00		83.3	25-120			
Indeno(1,2,3-cd)pyrene	2.66	0.10	ug/L	3.00		88.8	32-120			
Dibenzo(a,h)anthracene	2.76	0.10	ug/L	3.00		91.8	21-120			
Benzo(g,h,i)perylene	2.71	0.10	ug/L	3.00		90.2	28-120			

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Seattle WA, 98102

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

Reported: 07-Oct-2019 12:54

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHI0863 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS (BHI0863-BS1)			Prep	ared: 30-Sep	-2019 An	alyzed: 03-0	Oct-2019 17	':34		
Surrogate: 2-Methylnaphthalene-d10	2.07		ug/L	3.00		69.0	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.34		ug/L	3.00		111	10-125			
LCS Dup (BHI0863-BSD1)			Prep	ared: 30-Sep	-2019 An	alyzed: 03-0	Oct-2019 18	3:00		
Naphthalene	1.79	0.10	ug/L	3.00		59.5	33-120	3.89	30	
Acenaphthylene	1.82	0.10	ug/L	3.00		60.6	32-120	5.16	30	
Acenaphthene	1.99	0.10	ug/L	3.00		66.2	38-120	4.31	30	
Fluorene	2.17	0.10	ug/L	3.00		72.3	41-120	5.42	30	
Phenanthrene	2.47	0.10	ug/L	3.00		82.4	49-120	5.35	30	
Anthracene	2.41	0.10	ug/L	3.00		80.2	39-120	5.64	30	
Fluoranthene	2.79	0.10	ug/L	3.00		93.0	48-120	5.18	30	
Pyrene	2.80	0.10	ug/L	3.00		93.3	48-120	1.57	30	
Benzo(a)anthracene	2.44	0.10	ug/L	3.00		81.3	37-120	4.91	30	
Chrysene	2.77	0.10	ug/L	3.00		92.5	48-120	0.94	30	
Benzofluoranthenes, Total	11.3	0.20	ug/L	9.00		125	46-120	3.85	30	*
Benzo(a)pyrene	2.62	0.10	ug/L	3.00		87.3	25-120	4.59	30	
Indeno(1,2,3-cd)pyrene	2.79	0.10	ug/L	3.00		93.0	32-120	4.64	30	
Dibenzo(a,h)anthracene	2.86	0.10	ug/L	3.00		95.2	21-120	3.59	30	
Benzo(g,h,i)perylene	2.87	0.10	ug/L	3.00		95.8	28-120	5.92	30	
Surrogate: 2-Methylnaphthalene-d10	2.12		ug/L	3.00		70.6	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.46		ug/L	3.00		115	10-125			
Matrix Spike (BHI0863-MS1)	Source	: 1910367-04	Prep	ared: 30-Sep	-2019 An	alyzed: 03-0	Oct-2019 20):09		
Naphthalene	1.63	0.10	ug/L	3.00	ND	54.3	33-120			
Acenaphthylene	1.49	0.10	ug/L	3.00	ND	49.6	32-120			
Acenaphthene	1.79	0.10	ug/L	3.00	ND	59.5	38-120			
Fluorene	1.91	0.10	ug/L	3.00	ND	63.6	41-120			
Phenanthrene	2.27	0.10	ug/L	3.00	ND	75.7	49-120			
Anthracene	2.13	0.10	ug/L	3.00	ND	70.9	39-120			
Fluoranthene	2.54	0.10	ug/L	3.00	ND	84.7	48-120			
Pyrene	2.55	0.10	ug/L	3.00	ND	85.0	48-120			
Benzo(a)anthracene	2.21	0.10	ug/L	3.00	ND	73.7	37-120			
Chrysene	2.48	0.10	ug/L	3.00	ND	82.5	48-120			
Benzofluoranthenes, Total	9.72	0.20	ug/L	9.00	ND	108	46-120			
Benzo(a)pyrene	2.22	0.10	ug/L	3.00	ND	74.1	25-120			

Analytical Resources, Inc.





Seattle WA, 98102

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

Reported: 07-Oct-2019 12:54

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHI0863 - 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 (BHI0863-MS1)	Source: 1	1910367-04	Prepa	ared: 30-Sep	-2019 A	nalyzed: 03-	Oct-2019 20	:09		
Indeno(1,2,3-cd)pyrene	2.32	0.10	ug/L	3.00	ND	77.4	32-120			
Dibenzo(a,h)anthracene	2.46	0.10	ug/L	3.00	ND	82.0	21-120			
Benzo(g,h,i)perylene	2.51	0.10	ug/L	3.00	ND	83.6	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.94		ug/L	3.00	2.03	64.8	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.04		ug/L	3.00	2.96	101	10-125			

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

Matrix Spike Dup (BHI0863-MSD1)	Source: 1	910367-04	Prepa	red: 30-Sep	-2019 A	nalyzed: 03-0	Oct-2019 20	:35		
Naphthalene	1.67	0.10	ug/L	3.00	ND	55.8	33-120	2.71	30	
Acenaphthylene	1.61	0.10	ug/L	3.00	ND	53.8	32-120	8.04	30	
Acenaphthene	1.83	0.10	ug/L	3.00	ND	60.9	38-120	2.26	30	
Fluorene	1.99	0.10	ug/L	3.00	ND	66.4	41-120	4.28	30	
Phenanthrene	2.30	0.10	ug/L	3.00	ND	76.8	49-120	1.40	30	
Anthracene	2.22	0.10	ug/L	3.00	ND	73.9	39-120	4.04	30	
Fluoranthene	2.55	0.10	ug/L	3.00	ND	85.2	48-120	0.60	30	
Pyrene	2.66	0.10	ug/L	3.00	ND	88.7	48-120	4.31	30	
Benzo(a)anthracene	2.34	0.10	ug/L	3.00	ND	78.1	37-120	5.83	30	
Chrysene	2.61	0.10	ug/L	3.00	ND	87.1	48-120	5.38	30	
Benzofluoranthenes, Total	10.3	0.20	ug/L	9.00	ND	114	46-120	5.30	30	
Benzo(a)pyrene	2.46	0.10	ug/L	3.00	ND	82.0	25-120	10.10	30	
Indeno(1,2,3-cd)pyrene	2.62	0.10	ug/L	3.00	ND	87.2	32-120	11.90	30	
Dibenzo(a,h)anthracene	2.72	0.10	ug/L	3.00	ND	90.6	21-120	10.00	30	
Benzo(g,h,i)perylene	2.71	0.10	ug/L	3.00	ND	90.4	28-120	7.78	30	
Surrogate: 2-Methylnaphthalene-d10	1.99		ug/L	3.00	2.03	66.3	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.21		ug/L	3.00	2.96	107	10-125			

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

Analytical Resources, Inc.





Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Seattle WA, 98102 Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

Petroleum Hydrocarbons - Quality Control

Batch BHI0864 - EPA 3510C SepF

Instrument: FID3 Analyst: VTS

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHI0864-BLK1)			Prepa	ared: 30-Sep	-2019 Aı	nalyzed: 04-	Oct-2019 15	:39		
Diesel Range Organics (C12-C24)	ND	0.100	mg/L	1						U
Motor Oil Range Organics (C24-C38)	ND	0.200	mg/L							U
Surrogate: o-Terphenyl	0.211		mg/L	0.225		93.6	50-150			
LCS (BHI0864-BS1)			Prepa	ared: 30-Sep	-2019 A	nalyzed: 04-	Oct-2019 16	5:00		
Diesel Range Organics (C12-C24)	2.67	0.100	mg/L	3.00		88.9	56-120			
Surrogate: o-Terphenyl	0.222		mg/L	0.225		98.8	50-150			
LCS Dup (BHI0864-BSD1)			Prepa	ared: 30-Sep	-2019 A	nalyzed: 04-	Oct-2019 16	5:20		
Diesel Range Organics (C12-C24)	2.66	0.100	mg/L	3.00		88.7	56-120	0.23	30	
Surrogate: o-Terphenyl	0.221		mg/L	0.225		98.2	50-150			
Matrix Spike (BHI0864-MS1)	Source:	1910367-04	Prepa	red: 30-Sep	-2019 A	nalyzed: 04-	Oct-2019 18	3:03		
Diesel Range Organics (C12-C24)	2.15	0.100	mg/L	3.00	ND	71.6	56-120			
Surrogate: o-Terphenyl	0.181		mg/L	0.225	0.192	80.5	50-150			
Recovery limits for target analytes in MS/MSD (QC samples are advisor	ry only.								
Matrix Spike Dup (BHI0864-MSD1)	Source	1910367-04	Prepa	ared: 30-Sep	-2019 A	nalyzed: 04-	Oct-2019 18	3:23		
Diesel Range Organics (C12-C24)	2.60	0.100	mg/L	3.00	ND	86.8	56-120	19.10	30	
Surrogate: o-Terphenyl	0.202		mg/L	0.225	0.192	89.7	50-150			

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





Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackso

Project Number: Birds Eye Reported:
Project Manager: Inger Jackson 07-Oct-2019 12:54

Certified Analyses included in this Report

Analyte Certifications

· ······ y · · ·	
EPA 8260C in Water	
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromoethane	DoD-ELAP,NELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE

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4-Methyl-2-Pentanone

Toluene

cis-1,3-Dichloropropene

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.

DoD-ELAP, NELAP, CALAP, WADOE

DoD-ELAP,ADEC,NELAP,CALAP,WADOE

DoD-ELAP,ADEC,NELAP,CALAP,WADOE





Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

trans-1,3-Dichloropropene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 2-Hexanone DoD-ELAP, NELAP, CALAP, WADOE 1,1,2-Trichloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,3-Dichloropropane DoD-ELAP, ADEC, NELAP, CALAP, WADOE Tetrachloroethene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Dibromochloromethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dibromoethane DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE Chlorobenzene Ethylbenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,1,1,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE m,p-Xylene DoD-ELAP, ADEC, NELAP, CALAP, WADOE o-Xylene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Styrene DoD-ELAP, NELAP, CALAP, WADOE Bromoform DoD-ELAP, NELAP, CALAP, WADOE 1,1,2,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2,3-Trichloropropane trans-1,4-Dichloro 2-Butene DoD-ELAP, ADEC, NELAP, CALAP, WADOE DoD-ELAP, NELAP, CALAP, WADOE n-Propylbenzene Bromobenzene DoD-ELAP, NELAP, CALAP, WADOE Isopropyl Benzene DoD-ELAP, NELAP, CALAP, WADOE 2-Chlorotoluene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 4-Chlorotoluene DoD-ELAP, ADEC, NELAP, CALAP, WADOE t-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE 1,3,5-Trimethylbenzene DoD-ELAP, NELAP, CALAP, WADOE 1,2,4-Trimethylbenzene DoD-ELAP, NELAP, CALAP, WADOE s-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, NELAP, CALAP, WADOE 4-Isopropyl Toluene 1,3-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,4-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE n-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dibromo-3-chloropropane 1.2.4-Trichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Hexachloro-1,3-Butadiene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Naphthalene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1.2.3-Trichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Dichlorodifluoromethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE Methyl tert-butyl Ether DoD-ELAP,ADEC,NELAP,CALAP,WADOE **WADOE** n-Hexane

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2-Pentanone

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WADOE





Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson07-Oct-2019 12:54

EPA 8270D-SIM in Water

EPA 02/UD-SIIVI III VValer	
Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
Biphenyl	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
Fluorene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP
Carbazole	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
Fluoranthene	DoD-ELAP
Pyrene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Chrysene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzofluoranthenes, Total	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Perylene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE

Diesel Range Organics (C12-C22) DoD-ELAP

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Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	07-Oct-2019 12:54

Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
AUA/TDI I ! 14/- 4	

NWTPHg in Water

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

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019

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Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 07-Oct-2019 12:54

Notes and Definitions

 Flagged value is not within established control limits.

B This analyte was detected in the method blank.

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)

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.

P 206.329.0141 | F 206.329.6968

2377 Eastlake Avenue East | Seattle, WA 98102

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