PACIFIC groundwater GROUP

May 22, 2019

Panjini Balaraju Washington State Department of Ecology Southwest Region – Toxics Cleanup Program/VCP PO Box 47775 Olympia Washington 98504-7775

Re: Former Birds Eye Foods Tacoma, First Quarter 2019 Groundwater Monitoring

Event Summary Report

Facility Site ID: 1328, Cleanup Site ID: 5012, VCP Site No SW1187

Dear Panjini:

This letter report summarizes the first quarter 2019 (2019 Q1) groundwater sampling event performed at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. Petroleum-related contamination in soil was identified in a portion of the facility, referred to as the "Boiler Room Site" (Site), which was the subject of a 2011 Remedial Investigation/Feasibility Study (2011 RI/FS) (Pacific Groundwater Group, 2011). The preferred remedial alternative identified in the 2011 RI/FS includes an environmental restrictive covenant and long-term groundwater quality monitoring in a network of four well pairs. In 2013 the Washington State Department of Ecology (Ecology) determined that no further remedial action is necessary to clean up contamination at the Boiler Room Site, dependent on the continued performance and effectiveness of the post-cleanup controls and groundwater quality monitoring.

The Boiler Room Site is jointly regulated by Ecology and by the Tacoma – Pierce County Health Department (TPCHD). The 2019 Q1 sampling event was performed, and this summary report was prepared, to satisfy both the Ecology and TPCHD groundwater monitoring requirements.

Analytical results for groundwater samples collected in 2019 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 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 Birds Eye Foods, for specific application to the project Site. No other warranty, express or implied, is made.

BOILER ROOM SITE MONITORING PROGRAMS

As regulating agencies, groundwater monitoring at the Site is required by both Ecology and TPCHD and the monitoring programs are described below. The analytical suites are the same for both the Ecology and TPCHD required programs (*Chemicals of Concern and Site Cleanup Levels* section of this report), but the schedules and well networks differ.

The 2019 Q1 monitoring event was conducted to satisfy both the Voluntary Cleanup Program (VCP) Long-Term Monitoring Program required by Ecology and the Semi-Annual Groundwater Monitoring Program required by TPCHD.

ECOLOGY-REQUIRED VCP LONG-TERM MONITORING PROGRAM

The Birds Eye Foods Long-Term Groundwater Monitoring Plan (herein VCP Monitoring Plan) (Pacific Groundwater Group, 2012) was reviewed by Ecology under the VCP framework of the Model Toxics Control Act (MTCA). The VCP Monitoring Plan describes the monitoring program objectives, well network, schedule, sampling protocols, contaminants of concern, and Site cleanup levels. The 2019 Q1 groundwater samples were collected in compliance with the VCP Monitoring Plan.

Monitoring Well Network

For the Boiler Room Site long-term monitoring well pairs, shallow wells have the added suffix "S"; deep wells have the added suffix "D". At each pair, the shallow and deep wells are approximately five lateral feet from each other. Well construction information is summarized in Table 1. The long-term monitoring well network is presented in Figure 1 and consists of:

MW-9S	MW-12S	MW-13S	MW-14S
MW-9D	MW-12D	MW-13D	MW-14D

Monitoring Schedule

As described in the VCP Monitoring Plan, the preferred remedial alternative identified in the 2011 RI/FS includes groundwater quality monitoring in 8 wells at the following frequency:

- 4 quarters of monitoring in Year 1
- 1 event every 18 months in Years 2-10



This schedule is subject to change following Ecology Periodic Reviews¹ that are performed at five-year intervals (5-Year Reviews). Modifications to the groundwater monitoring program were not made as part of the 2019 Periodic Review.

The four quarters of consecutive monitoring in Year 1 were completed in 2013 Q1. The 2019 Q1 monitoring represents the fourth event at an 18-month interval and Year 7. The next sampling event under the VCP Monitoring Program is scheduled for 2020 Q3.

TPCHD-REQUIRED SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

TPCHD regulates the Boiler Room Site as an open UST Site. Due to the presence of contaminated soil below the water table at the Boiler Room Site, TPCHD requires on-going 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 are performed in the spring and fall and involve sampling wells MW-9S, MW-9D, MW-12S, and MW-12D (Figure 1), which are a subset of the VCP Long-Term Monitoring Program.

2019 Q1 GROUNDWATER SAMPLING SUMMARY

Groundwater quality samples for the 2019 Q1 monitoring event were collected from the Boiler Room Site long-term well network in compliance with the Semi-Annual Groundwater Monitoring Plan (PGG, 2013) and TPCHD requirements (Marek, undated; received June 13, 2013) on March 13 and 14, 2019 by representatives of Pacific Groundwater Group (PGG).

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 and temporarily stored onsite prior to offsite treatment and disposal.

CHEMICALS OF CONCERN AND SITE CLEANUP LEVELS

Groundwater samples were delivered to Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on March 14, 2019. Samples were delivered in ice chests following standard chain-of-custody procedures.

¹ The Boiler Room Site No Further Action is dated July 8, 2013; the first Periodic Review was completed in 2019 (Ecology, 2019) and concluded that cleanup actions continue to be protective of human health and the environment, that the requirements of the Restrictive Covenant are being satisfactorily met, and that no additional remedial actions are needed at this time.



Groundwater samples were analyzed according to 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)
- BTEX Compounds: Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8260 ²)
- PAHs: Polynuclear Aromatic Hydrocarbons (EPA Method 8270D with selected ion monitoring modification to achieve required reporting limits)

As described in the 2011 RI/FS and Long-Term Monitoring Plan, standard MTCA 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 meets 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. Site-groundwater cleanup levels are presented in Tables 2 and 3, and are consistent with the 2011 RI/FS.

ANALYTICAL RESULTS

The 2019 Q1 groundwater monitoring analytical results are summarized in Tables 2 and 3. 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 2019 Q1 groundwater analytical results indicate the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil at the Boiler Room Site is not resulting in a dissolved plume with concentrations exceeding MTCA Method A groundwater cleanup levels.

Quality assurance/quality control (QA/QC) data associated with the Boiler Room Site 2019 Q1 groundwater samples were reviewed by PGG. All requested analyses were performed and the QA/QC assessments indicated acceptable results. Consistent with the VCP Monitoring Plan, field QA/QC included a blind field duplicate labeled MW-22S that was collected at well MW-12S and analyzed to evaluate analytical precision. No Site chemicals of concern were detected in either the 2019 Q1 field duplicate MW-22S or MW-12S.

2



² As stated in reports for sampling events performed between September 2015 and March 2017, 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 2019 Q1 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.

GROUNDWATER FLOW DIRECTION

Water levels measured in the shallow well network during the 2019 Q1 sampling event (Table 2, measurements made March 13 and 14, 2019) were used to generate elevation contours of the water table (Figure 1). The contours reflect a very flat water table, varying only 0.12 feet, or 1.4 inches, across the Site. The groundwater flow direction during the 2019 Q1 event was toward the north/northeast.

REFERENCES

- Bottem, Kelly. 2015. Email from Kelly Bottem, ARI, to Inger Jackson, Pacific Groundwater Group re: AMQ4 Maytown. September 29, 2015.
- 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
- 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, 2014. Cleanup Levels and Risk Calculations (CLARC) Data Tables May 2014 update. https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx
- Washington State Department of Ecology, 2019. Periodic Review Report Final Birds Eye Foods Facility; Site ID#: 1328; Cleanup Site ID#: 5012; 3303 South 35th Street Tacoma, Washington 98409. Southwest Regional Office Toxics Cleanup Program. February 2019.



CLOSING

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

Sincerely,

Pacific Groundwater Group

Inger Jackson

Senior Hydrogeologist

2019Q1_BEFSummaryReport_Final

Cc: René Rimelspach, Conagra Brands

Rob Olsen, Environmental Health Division/UST Program, Tacoma | Pierce County Health Department

Attachments: Table 1. VCP Long-Term Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, 2019 Q1

Table 3. Summary of Polynuclear Aromatic Hydrocarbon (PAH, SW8270D) Data, Birds Eye Foods, 2019 O1

Figure 1. VCP Long-Term Monitoring Well Network & 2019 Q1 Water Table Contours

Appendix A. ARI Lab Report 19C0249

Table 1. VCP Long-Term Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

	Units, Datum*	MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
Unique Well ID (UWID)				BHL 104	BHL 103	BHL 106	BHL 105	BHL 108	BHL 107
Location Information									
Township/Range-Section		21N/R3E-07	21N/R3E-07	21N/R3E-07	21N/R3E-07	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	697449.3	697457.4	697375.4	697375.0
Easting	feet, NAD 83/91 WA South	1148195.0	1148194.9	1148259.2	1148259.1	1148109.1	1148110.2	1148314.6	1148326.9
Ground Surface Elevation	feet, NAVD 88	247.67	247.64	248.24	248.19	247.23	247.24	249.45	249.43
Measuring Point Elevation	feet, NAVD 88	246.99	247.14	247.86	247.90	246.89	246.98	249.08	249.10
Construction Information									
Date Completed		10/22/1991	8/24/1992	4/23/2012	4/23/2012	4/24/2012	4/24/2012	4/26/2012	4/25/2012
Diameter	inches	2	2	2	2	2	2	2	2
Depth Drilled	feet bgs	37	82	35	75	35	75	35	75
Top of Screen	feet bgs	22	77	20	63	20	63	20	63
Bottom of Screen	feet bgs	37	82	35	73	35	73	35	73
Depth Completed	feet bgs	37	82	35	73	35	73	35	73
Monument Type		•		— Sherwo	od High Traffio	Flush Monur	ment ——		<u> </u>

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

Table 2: Summary of Groundwater Quality Data, Birds Eye Foods, 2019 Q1

CONSTITUENT	UNITS	Site Cleanup Levels*	MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
Field Parameters										
Depth to Water	feet		16.77	17.19	17.76	17.94	16.76	17	18.93	19.12
pH, Field	std. units		6.69	6.83	7.16	7.35	6.83	7.43	6.69	7.18
Specific Conductance, Field	umhos/cm		239.8	319	536.3	633.1	159	386.2	345.7	434.2
Temperature (C)	С		14.1	14.6	14.3	14.8	15	14.9	14.5	14.5
Turbidity, Field	NTU		1.62	1.33	41.7	3.75	1.27	1.67	6.38	0.14
NWTPH Analytes										
Diesel Range Organics	mg/L	0.5	0.1 U	0.1 U	0.1 U	0.1 U	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	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	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	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	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	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	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	0.4 U	0.4 U	0.4 U	0.4 U

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) - see Table 3 if carcinogenic PAHs detected in groundwater samples for this annual event.

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.

^{*}Cleanup Levels based on MTCA Method A.

U - Compound not detected

J - Concentration estimated

B - Compound detected in blank

Table 3: Summary of Polynuclear Aromatic Hydrocarbon (PAH, SW8270D) Data, Birds Eye Foods, 2019 Q1

		Site Cleanup								
CONSTITUENT	UNITS	Levels*	MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
Carcinogenic PAHs										
Benzo(a)anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	0.1 U	0.1 U	0.1 U	0.1 U

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) - see Table 3 if carcinogenic PAHs detected in groundwater samples for this annual event.

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.

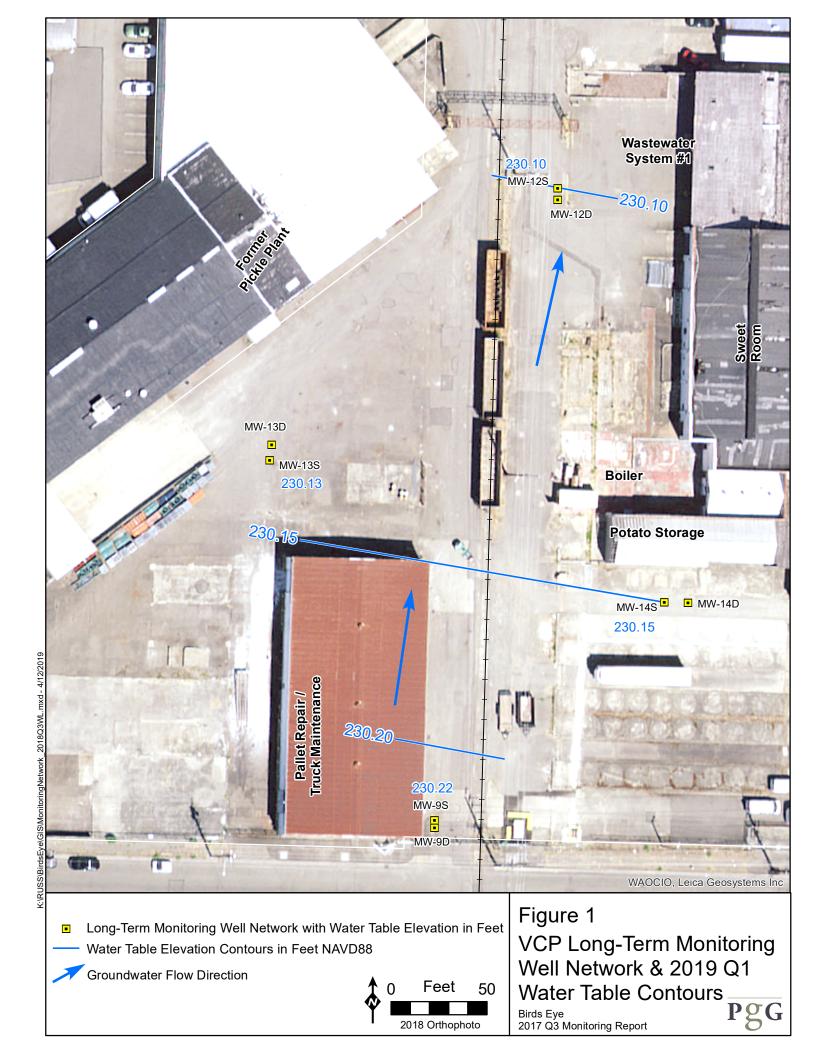
Bold text indicates constituent detected at or above method reporting limit.

U - Compound not detected

J - Concentration estimated

B - Compound detected in blank

^{*}Cleanup Levels based on MTCA Method A.





11 April 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)

19C0249

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 it entirety.

Theling & Frisher

Accreditation # 66169

Chain of Custody Record & Laboratory Analysis Request Analytical Resources, Incorporated ARI Assigned Number: Turn-around Requested: Page: of Analytical Chemists and Consultants 19 C0749 Standard 4611 South 134th Place, Suite 100 ARt Client Company: Phone: Date: Ice Tukwila, WA 98168 206 3290141 Present? Pacific Groundwater Group 206-695-6200 206-695-6201 (fax) Client Contact: No. of Cooler www.arilabs.com Inger, Coolers: Temps: Client Project Name: Analysis Requested Notes/Comments DIRE EXE Client Project #: K, Mayer Bkolovell/D, Wage 9 Sample ID Date Time Matrix No. Containers GW 8 2 MW-125 1030 1140 6 6 2 2 MW- 95 2 8 MW-9D 1500 8 2 MW-225 8 2 2 MW-145 8 2 2 MW- 14D 8 2 MW-135 MW- 13A 0

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.

1555

Relinquished by:

(Signature)

Company:

Date & Time:

Printed Name:

Received by:

(Signature)

Company

Date & Time

153/14/19

Printed Name

Comments/Special Instructions

"Elm" format.

EDDs in "PGG" and

Refinanished by:

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.

Received by:

(Signature)

Company:

Date & Time:

Printed Name:



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

Reported: 11-Apr-2019 11:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12S	19C0249-01	Water	13-Mar-2019 10:30	14-Mar-2019 15:55
MW-12D (+MS/MSD)	19C0249-02	Water	13-Mar-2019 11:40	14-Mar-2019 15:55
MW-9S	19C0249-03	Water	13-Mar-2019 14:15	14-Mar-2019 15:55
MW-9D	19C0249-04	Water	13-Mar-2019 15:00	14-Mar-2019 15:55
MW-22S	19C0249-05	Water	13-Mar-2019 10:45	14-Mar-2019 15:55
MW-14S	19C0249-06	Water	14-Mar-2019 11:10	14-Mar-2019 15:55
MW-14D	19C0249-07	Water	14-Mar-2019 11:40	14-Mar-2019 15:55
MW-13S	19C0249-08	Water	14-Mar-2019 13:55	14-Mar-2019 15:55
MW-13D	19C0249-09	Water	14-Mar-2019 14:25	14-Mar-2019 15:55
Trip Blanks	19C0249-10	Water	13-Mar-2019 10:30	14-Mar-2019 15:55

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Work Order Case Narrative

Revised Report - April 11, 2019

This report was revised to include missing SIM PAH 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.

Gasoline by NWTPH-g (GC/MS)

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 percent recoveries were within control limits.

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.

Analytical Resources, Inc.





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

Reported: 11-Apr-2019 11:55

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.

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.

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

Printed: 3/15/2019 11:23:37AM

WORK ORDER

19C0249

Client: Pacifi	c Groundwater Group	Project Manager: Kelly Bottem
Project: Birds	Eye	Project Number: Birds Eye
Report To:		Invoice To:
Pacific Grounds	water Group	Pacific Groundwater Group
Inger Jackson		Inger Jackson
2377 Eastlake A	Ave. E. Suite 200	2377 Eastlake Ave. E. Suite 200
Seattle, WA 981	102	Seattle, WA 98102
Phone: (206) 32	29-0141	Phone :(206) 329-0141
Fax: -		Fax: -
Date Due:	29-Mar-2019 18:00 (10 day TAT)	
Received By:	Erin I. Salle	Date Received: 14-Mar-2019 15:55
Logged In By:	Erin I. Salle	Date Logged In: 15-Mar-2019 10:28
Samples Received at	::0.7°C	
	signed and dated custody seals attached to outside of cooler(s)	211
Custody papers p	properly filled out (in, signed, analyses requested, etc)	Yes Was a temperature blank included in the cooler
Was sufficient ic	e used (if appropriate)	Yes All bottles sealed in individual plastic bags
Number of conta	ed in good condition (unbroken)	Yes All bottle labels complete and legible
	sed for the requested analyses	
Analyses/bottles	require preservation (attach preservation sheet excluding VOC). RI	No Sufficient amount of sample sent in each bottle
Analysis	Due TAT	Expires Comments



E = Glass NM, Amber, 500 mL

8260C Gas (NWTPH)

8260C VOA

TPH NW (Extractables) low level

8270D-SIM PAH (0.1 ug/L or 5 ug/kg) 29-Mar-2019 15:00

WORK ORDER

19C0249

Client: Pacific Groundwater Group Project Manager: Kelly Bottem

Project: Birds Eye Project Number: Birds Eye

F = Glass NM, Amber, 500 mL

29-Mar-2019 15:00

29-Mar-2019 15:00

29-Mar-2019 15:00

Analysis	Due	TAT	Γ Expires	Comn	nents
19C0249-01 MW-12S [Wat	er] Sampled 13-Mar-2019	10:3	30 (GMT-08:00) Pacifi	ic	
Time (US & Canada)					
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL		C = VOA Vial, Clear, 40 mL		D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL		G = Glass NM, Amber, 500 i		H = Glass NM, Amber, 500 mL
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	27-Mar-2019 10:30	O Client	gets raw data
8260C VOA	29-Mar-2019 15:00	10	27-Mar-2019 10:30	0	
8270D-SIM PAH (0.1 ug/L or 5 u	ug/kg) 29-Mar-2019 15:00	10			
TPH NW (Extractables) low leve	el 29-Mar-2019 15:00	10	20-Mar-2019 10:30	O Client	gets raw data
19C0249-02 MW-12D (+MS	S/MSD) [Water] Sampled 1	13-N	/lar-2019 11:40		
(GMT-08:00) Pacific Time (US & Canada)				
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL		C = VOA Vial, Clear, 40 mL	, HCL	D = VOA Vial, Clear, 40 mL, HCL
E = VOA Vial, Clear, 40 mL, HCL	F = VOA Vial, Clear, 40 mL, HCL	,	G = VOA Vial, Clear, 40 mL	., HCL	H = VOA Vial, Clear, 40 mL, HCL
I = VOA Vial, Clear, 40 mL, HCL	J = VOA Vial, Clear, 40 mL, HCL		K = VOA Vial, Clear, 40 mL	., HCL	L = VOA Vial, Clear, 40 mL, HCL
M = Glass NM, Amber, 500 mL	N = Glass NM, Amber, 500 mL		O = Glass NM, Amber, 500	mL	$P = Glass\ NM,\ Amber,\ 500\ mL$
Q = Glass NM, Amber, 500 mL	R = Glass NM, Amber, 500 mL		S = Glass NM, Amber, 500 n	mL	T = Glass NM, Amber, 500 mL
U = Glass NM, Amber, 500 mL	V = Glass NM, Amber, 500 mL		W = Glass NM, Amber, 500	mL	X = Glass NM, Amber, 500 mL
TPH NW (Extractables) low leve	29-Mar-2019 15:00	10	20-Mar-2019 11:40	0 Client	gets raw data
8270D-SIM PAH (0.1 ug/L or 5	ug/kg) 29-Mar-2019 15:00	10	20-Mar-2019 11:40	0	
8260C VOA	29-Mar-2019 15:00	10	27-Mar-2019 11:40	0	
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	27-Mar-2019 11:40	0 Client	gets raw data
19C0249-03 MW-9S [Wate	r Sampled 13-Mar-2019 1	4:15	5 (GMT-08:00) Pacific	2	
Time (US & Canada)					
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL		C = VOA Vial, Clear, 40 mL	., HCL	D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL		G = Glass NM, Amber, 500	mL	H = Glass NM, Amber, 500 mL
8260C VOA	29-Mar-2019 15:00	10	27-Mar-2019 14:15	5	
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	27-Mar-2019 14:15	5 Client	gets raw data
TPH NW (Extractables) low leve	el 29-Mar-2019 15:00	10	20-Mar-2019 14:15	5 Client	t gets raw data
8270D-SIM PAH (0.1 ug/L or 5		10	20-Mar-2019 14:15	5	
19C0249-04 MW-9D [Wate	er Sampled 13-Mar-2019 1	5:0	0 (GMT-08:00) Pacific	c	
Time (US & Canada)					
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL		C = VOA Vial, Clear, 40 mL	L, HCL	D = VOA Vial, Clear, 40 mL, HCL
Park Committee Committee (2)					

G = Glass NM, Amber, 500 mL

27-Mar-2019 15:00

20-Mar-2019 15:00

10

10

10

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20-Mar-2019 15:00 Client gets raw data

27-Mar-2019 15:00 Client gets raw data

H = Glass NM, Amber, 500 mL



8270D-SIM PAH (0.1 ug/L or 5 ug/kg) 29-Mar-2019 15:00

TPH NW (Extractables) low level

WORK ORDER

19C0249

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

Project: Birds Eye			Project Number:	В	irds Eye
Analysis	Due	TAT	Γ Expires	C	omments
19C0249-05 MW-22S [Wat Time (US & Canada)	er] Sampled 13-Mar-2019	0:4	45 (GMT-08:00) Pacifi	ic	
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL	2)	C = VOA Vial, Clear, 40 mL,	, <i>H</i> C	CL D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL		G = Glass NM, Amber, 500 n	mL	H = Glass NM, Amber, 500 mL
8260C VOA	29-Mar-2019 15:00	10	27-Mar-2019 10:45	5	
8270D-SIM PAH (0.1 ug/L or 5 u	ıg/kg) 29-Mar-2019 15:00	10	20-Mar-2019 10:45	5	
TPH NW (Extractables) low level	29-Mar-2019 15:00	10	20-Mar-2019 10:45	5 C	lient gets raw data
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	27-Mar-2019 10:45	5 Cl	lient gets raw data
19C0249-06 MW-14S [Water Time (US & Canada)	er] Sampled 14-Mar-2019 1	1:1	0 (GMT-08:00) Pacific	ic	
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL	ì	C = VOA Vial, Clear, 40 mL,	, HC	L D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL	(G = Glass NM, Amber, 500 n	mL	H = Glass NM, Amber, 500 mL
8270D-SIM PAH (0.1 ug/L or 5 u	ıg/kg) 29-Mar-2019 15:00	10	21-Mar-2019 11:10)	
8260C VOA	29-Mar-2019 15:00	10	28-Mar-2019 11:10)	
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	28-Mar-2019 11:10) CI	ient gets raw data
TPH NW (Extractables) low level	29-Mar-2019 15:00	10	21-Mar-2019 11:10) Cl	ient gets raw data
19C0249-07 MW-14D [Wat Pacific Time (US & Canada)		11:4	40 (GMT-08:00)		
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL		C = VOA Vial, Clear, 40 mL,	. HC	L D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL		G = Glass NM, Amber, 500 n	mL	H = Glass NM, Amber, 500 mL
8270D-SIM PAH (0.1 ug/L or 5 u	g/kg) 29-Mar-2019 15:00	10	21-Mar-2019 11:40)	
8260C VOA	29-Mar-2019 15:00	10	28-Mar-2019 11:40)	
TPH NW (Extractables) low level	29-Mar-2019 15:00	10	21-Mar-2019 11:40) CI	ient gets raw data
8260C Gas (NWTPH)	29-Mar-2019 15:00	10			# .
19C0249-08 MW-13S [Wate	er Sampled 14-Mar-2019 1	3:5	55 (GMT-08:00) Pacific	ic	
Time (US & Canada)	ent I was and Employ and an amband Company	100101000	(
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL	(C = VOA Vial, Clear, 40 mL,	, HC	L D = VOA Vial, Clear, 40 mL, HCL
E = Glass NM, Amber, 500 mL	F = Glass NM, Amber, 500 mL	(G = Glass NM, Amber, 500 n	mL	H = Glass NM, Amber, 500 mL
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	28-Mar-2019 13:55	5 CI	ient gets raw data
8260C VOA	29-Mar-2019 15:00	10	28-Mar-2019 13:55	5	
00000 011 (0 1 1 1 1 1 1 1 1 1 1 1 1 1					

10

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29-Mar-2019 15:00

21-Mar-2019 13:55

21-Mar-2019 13:55 Client gets raw data

Printed: 3/15/2019 11:23:37AM

WORK ORDER

19C0249

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Reviewed By

Project Number: Birds Eye

Analysis	Due	TAT	Expires	Comments
19C0249-09 MW-13D [Wat Pacific Time (US & Canada)		14:2	25 (GMT-08:00)	e e e e e e e e e e e e e e e e e e e
A = VOA Vial, Clear, 40 mL, HCL E = Glass NM, Amber, 500 mL	B = VOA Vial, Clear, 40 mL, HCL F = Glass NM, Amber, 500 mL		C = VOA Vial, Clear, 40 mL, G = Glass NM, Amber, 500 n	
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	28-Mar-2019 14:25	Client gets raw data
8260C VOA	29-Mar-2019 15:00	10	28-Mar-2019 14:25	
8270D-SIM PAH (0.1 ug/L or 5 u	g/kg) 29-Mar-2019 15:00	10	21-Mar-2019 14:25	
TPH NW (Extractables) low level	29-Mar-2019 15:00	10	21-Mar-2019 14:25	Client gets raw data
	29-Mar-2019 15:00 /ater Sampled 13-Mar-20	money	TOTAL TRANSPORT TOTAL TOTAL TOTAL	Client gets raw data
A = VOA Vial, Clear, 40 mL, HCL	B = VOA Vial, Clear, 40 mL, HCL			
8260C VOA	29-Mar-2019 15:00	10	27-Mar-2019 10:30	
8260C Gas (NWTPH)	29-Mar-2019 15:00	10	27-Mar-2019 10:30	Client gets raw data

Date

Page 4 of 4



Cooler Receipt Form

ARI Client: PGG	Project Name: BITAS Eye
COC No(s):	Delivered by: Fed-Ex UPS Courier (Hand Delivered Other:
Assigned ARI Job No: 19 COLLY	Tracking No:NA
Preliminary Examination Phase:	
Were intact, properly signed and dated custody seals attached to the	outside of to cooler? YES NO
Were custody papers included with the cooler?	
Were custody papers properly filled out (ink, signed, etc.)	
Time	4,6 0.4 0.7
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#: 0005206 Time: 1855
Complete custody forms and a	
Log-In Phase:	акасл ан этррту воситенть
eog-in i nasc.	
Was a temperature blank included in the cooler?	YES (NO)
	et Ice Gel Packs Baggies Foam Block Paper Other:
Was sufficient ice used (if appropriate)?	NA YES NO
Were all bottles sealed in individual plastic bags?	YES (NO)
Did all bottles arrive in good condition (unbroken)?	YES NO
Were all bottle labels complete and legible?	
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)	ation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles?	
Was sufficient amount of sample sent in each bottle?	YES NO
Date VOC Trip Blank was made at ARI	NA 3/11/9
Was Sample Split by ARI: NA YES Date/Time:	Equipment: Split by:
2 00 3 11 1	
Samples Logged by Date: 3/12/1	Time: 1028 Labels checked by:
** Notify Project Manager of o	
Sample ID on Bottle Sample ID on COC	Sample ID on Bottle Sample ID on COC
MW-12D(+MS/MSP)(JSMW-12D(+MS)	(MSD)
MW42D MS	
MU)-12 DMSD	
mw-12 D	
Additional Notes, Discrepancies, & Resolutions:	
	of an CDC
included 2 trip blanks no	on coo
*	
010 7/18/10	, #
By: (Sll Date: 3/15/19	

0016F 01/17/2018 Cooler Receipt Form

Revision 014A



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

Reported: 11-Apr-2019 11:55

MW-12S 19C0249-01 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 10:30

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:00

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-01 C

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	100	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	101	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-12S 19C0249-01 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 10:30

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:00

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-01 C

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	100	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-12S 19C0249-01 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/13/2019 10:30

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 13:52

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-01 G 01

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Fiepaied, 19-Mai-2019	Filiai volume.	IIIL				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	68.6	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	103	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

MW-12S 19C0249-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx		Sampled: 03/13/2019 10:30	
Instrument: FID3 Analy	yst: VTS	Analyzed: 03/27/2019 10:48	
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506	Sample Size: 500 mL	Extract ID: 19C0249-01 E 01
	Prepared: 20-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 19C0249-01 E 01
	Cleanup Batch: CHC0177	Initial Volume: 1 mL	
	Cleaned: 26-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:19C0249-01 E 01
	Cleanup Batch: CHC0176	Initial Volume: 1 mL	
	Cleaned: 26-Mar-2019	Final Volume: 1 mL	
			Reporting

			Reporting			
Analyte	CAS Number	Dilution	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 %	104	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-12D (+MS/MSD) 19C0249-02 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 11:40

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:26

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-02 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	98.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-12D (+MS/MSD) 19C0249-02 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 11:40

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:26

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-02 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	98.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-12D (+MS/MSD) 19C0249-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270D-SIM

Instrument: NT8 Analyst: JZ

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID
Preparation Batch: BHC0518 Sample Size: 500 mL

Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Prepared: 19-Mar-2019	Final volume: ().5 IIIL				
Analyte	CAS Number	Dilution	Reporting 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 %	59.5	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	95.6	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson11-Apr-2019 11:55

MW-12D (+MS/MSD) 19C0249-02 (Water)

Petroleum Hydrocarbons

nalyzed: 03/27/2019 11:10 tract ID: 19C0249-02 P 01
ract ID: 19C0249-02 P 01
tract ID: 19C0249-02 P 01
tract ID:19C0249-02 P 01
t

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 %	86.3	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-9S 19C0249-03 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 14:15

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:52

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-03 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

	110pureur 20 11ur 2019	I III (CIMIII)	0 1112				
				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 %	98.8	%	
Surrogate: 4-Bromofluorobenz	rene			80-120 %	101	%	
Surrogate: 1,2-Dichlorobenzen	ne-d4			80-120 %	102	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-9S 19C0249-03 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 14:15

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 18:52

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-03 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	98.8	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-9S 19C0249-03 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/13/2019 14:15

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 14:44

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-03 F 01

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Applied	CAS Number	Dilution	Reporting Limit	Dogult	Units	Notes
Analyte	CAS Number	Dilution	Liiiit	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 %	53.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	95.0	%	

Analytical Resources, Inc.

Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

MW-9S 19C0249-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 03/13/2019 14:15
Instrument: FID3 Analy	st: VTS		Analyzed: 03/27/2019 12:16	
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506 Prepared: 20-Mar-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19C0249-03 E 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHC0177 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19C0249-03 E 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHC0176 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19C0249-03 E 01
			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 %	110	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-9D 19C0249-04 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 15:00

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 19:17

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-04 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	98.6	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	99.7	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-9D 19C0249-04 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 15:00

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 19:17

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-04 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	98.6	%	

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-9D 19C0249-04 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/13/2019 15:00

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 15:10

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-04 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Trepared: 17-War-2017	i mai voiume.					
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	48.4	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	102	%	

Analytical Resources, Inc.

Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson11-Apr-2019 11:55

MW-9D 19C0249-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				Sampled: 03/13/2019 15:00
Instrument: FID3 Analy	vst: VTS			Analyzed: 03/27/2019 12:38
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506 Prepared: 20-Mar-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19C0249-04 F 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHC0177 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19C0249-04 F 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHC0176 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19C0249-04 F 01
			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 %	111	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-22S 19C0249-05 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 10:45

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 19:43

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-05 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

	Trepared: 20 Mar 2019	i mai voiame.	o me				
				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 %	100	%	
Surrogate: 4-Bromofluorobenze	ene			80-120 %	101	%	
Surrogate: 1,2-Dichlorobenzen	e-d4			80-120 %	103	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-22S 19C0249-05 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 10:45

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 19:43

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-05 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Analyte Result Units Notes GRO ND U Gasoline Range Organics (Tol-Nap) 100 ug/L 80-120 % 100 % Surrogate: Toluene-d8 80-120 % 101 Surrogate: 4-Bromofluorobenzene %

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-22S 19C0249-05 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/13/2019 10:45

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 15:35

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-05 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Trepared. 15 War 2015	i mai voiame.	IIIE				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	53.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	92.2	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

MW-22S 19C0249-05 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx		Sampled: 03/13/2019 10:45	
Instrument: FID3 Analy	yst: VTS		Analyzed: 03/27/2019 13:00
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506	Sample Size: 500 mL	Extract ID: 19C0249-05 F 01
	Prepared: 20-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 19C0249-05 F 01
	Cleanup Batch: CHC0177	Initial Volume: 1 mL	
	Cleaned: 26-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:19C0249-05 F 01
	Cleanup Batch: CHC0176	Initial Volume: 1 mL	
	Cleaned: 26-Mar-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 %	110	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-14S 19C0249-06 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/14/2019 11:10

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:08

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-06 B
Preparation Batch: BHC0585 Sample Size: 10 mL

Prepared: 20-Mar-2019 Final Volume: 10 mL

	Trepared. 20 Mai 2019	i mai voiame.	O IIIL				
				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 %	100	%	
Surrogate: 4-Bromofluorobenz	ene			80-120 %	98.4	%	
Surrogate: 1,2-Dichlorobenzen	ne-d4			80-120 %	102	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-14S 19C0249-06 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/14/2019 11:10

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:08

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-06 B

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Analyte Result Units Notes GRO ND U Gasoline Range Organics (Tol-Nap) 100 ug/L 80-120 % 100 % Surrogate: Toluene-d8 80-120 % Surrogate: 4-Bromofluorobenzene 98.4 %

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-14S 19C0249-06 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/14/2019 11:10

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 16:01

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-06 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Trepared. 17-War-2017	i mai voiume.	.5 IIIL				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	57.8	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	88.0	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeReported:Seattle WA, 98102Project Manager:Inger Jackson11-Apr-2019 11:55

MW-14S 19C0249-06 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/14/2019 11:10	
Instrument: FID3 Analy	est: VTS			Analyzed: 03/27/2019 13:22
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506 Prepared: 20-Mar-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19C0249-06 F 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHC0177 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19C0249-06 F 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHC0176 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19C0249-06 F 01
			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 %	87.3	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-14D 19C0249-07 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/14/2019 11:40

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:34

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-07 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

	Trepared: 20 Mar 2019	i mai voiame.	o me				
				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 %	98.4	%	
Surrogate: 4-Bromofluorobenz	ene			80-120 %	97.0	%	
Surrogate: 1,2-Dichlorobenzen	e-d4			80-120 %	102	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-14D 19C0249-07 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/14/2019 11:40

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:34

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-07 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	98.4	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	97.0	%	

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-14D 19C0249-07 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/14/2019 11:40

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 16:27

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-07 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Prepared: 19-Mar-2019	Final volume: ().5 IIIL				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	60.5	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	106	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

MW-14D 19C0249-07 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/14/2019 11:40	
Instrument: FID3 Analy	est: VTS		Analyzed: 03/27/2019 13:44	
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506 Prepared: 20-Mar-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19C0249-07 F 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHC0177 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19C0249-07 F 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHC0176 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19C0249-07 F 01
			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 %	89.1	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-13S 19C0249-08 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/14/2019 13:55

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:59

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-08 C

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-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 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.1	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-13S 19C0249-08 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/14/2019 13:55

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 20:59

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-08 C

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			80-120 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.1	%	

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

Reported: 11-Apr-2019 11:55

MW-13S 19C0249-08 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/14/2019 13:55

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 16:53

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-08 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL
Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Prepared: 19-Mar-2019	rinai volume: (Final volume: 0.3 mL				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	49.4	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	88.4	%	

Analytical Resources, Inc.



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeReported:Seattle WA, 98102Project Manager:Inger Jackson11-Apr-2019 11:55

MW-13S 19C0249-08 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx		Sampled: 03/14/2019 13:55	
Instrument: FID3 Analy	/st: VTS		Analyzed: 03/27/2019 14:06
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506	Sample Size: 500 mL	Extract ID: 19C0249-08 F 01
	Prepared: 20-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 19C0249-08 F 01
	Cleanup Batch: CHC0177	Initial Volume: 1 mL	
	Cleaned: 26-Mar-2019	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:19C0249-08 F 01
	Cleanup Batch: CHC0176	Initial Volume: 1 mL	
	Cleaned: 26-Mar-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 %	97.9	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-13D 19C0249-09 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/14/2019 14:25

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 21:25

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-09 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

	<u> </u>		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 %	97.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.9	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	99.7	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

MW-13D 19C0249-09 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/14/2019 14:25

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 21:25

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-09 A

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Analyte Result Units Notes GRO ND U Gasoline Range Organics (Tol-Nap) 100 ug/L 80-120 % 97.9 % Surrogate: Toluene-d8 80-120 % Surrogate: 4-Bromofluorobenzene 99.9 %

Analytical Resources, Inc.

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

Reported: 11-Apr-2019 11:55

MW-13D 19C0249-09 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/14/2019 14:25

 Instrument: NT8 Analyst: JZ
 Analyzed: 03/29/2019 17:19

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 19C0249-09 E 02

Preparation Batch: BHC0518 Sample Size: 500 mL Prepared: 19-Mar-2019 Final Volume: 0.5 mL

Trepared. 17-War-2017	i mai voiume.).5 IIIE				
Analyte	CAS Number	Dilution	Reporting 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			31-120 %	52.3	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	88.7	%	

Analytical Resources, Inc.

Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

MW-13D 19C0249-09 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/14/2019 14:25	
Instrument: FID3 Analy	est: VTS			Analyzed: 03/27/2019 14:28
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHC0506 Prepared: 20-Mar-2019	Sample Size: 500 mL Final Volume: 1 mL		Extract ID: 19C0249-09 F 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHC0177 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID: 19C0249-09 F 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CHC0176 Cleaned: 26-Mar-2019	Initial Volume: 1 mL Final Volume: 1 mL		Extract ID:19C0249-09 F 01
			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 %	111	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Trip Blanks 19C0249-10 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/13/2019 10:30

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 14:30

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-10 B

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

	Trepared: 20 Mar 2019	i mai voiame.	O IIIE				
				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 %	101	%	
Surrogate: 4-Bromofluorobenz	tene			80-120 %	98.7	%	
Surrogate: 1,2-Dichlorobenzer	ne-d4			80-120 %	99.2	%	

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Trip Blanks 19C0249-10 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/13/2019 10:30

 Instrument: NT3 Analyst: PKC
 Analyzed: 03/20/2019 14:30

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19C0249-10 B

Preparation Batch: BHC0585 Sample Size: 10 mL Prepared: 20-Mar-2019 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Analyte Result Units Notes GRO ND U Gasoline Range Organics (Tol-Nap) 100 ug/L 80-120 % 101 % Surrogate: Toluene-d8 80-120 % Surrogate: 4-Bromofluorobenzene 98.7 %

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Volatile Organic Compounds - Quality Control

Batch BHC0585 - EPA 5030 (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte Blank (BHC0585-BLK1) Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene Surrogate: Toluene-d8	ND ND ND ND ND ND ND ND S.09	0.20 0.20 0.20 0.20 0.40 0.20	Prepared ug/L ug/L ug/L	Level	Result r-2019 A	%REC	Limits Mar-2019 1	4:01	Limit	Notes
Benzene Toluene Ethylbenzene m,p-Xylene o-Xylene	ND ND ND ND	0.20 0.20 0.40	ug/L ug/L	ared: 20-Ma	r-2019 <i>A</i>	Analyzed: 20-	Mar-2019 1	4:01		
Toluene Ethylbenzene m,p-Xylene o-Xylene	ND ND ND ND	0.20 0.20 0.40	ug/L							
Ethylbenzene m,p-Xylene o-Xylene	ND ND ND	0.20 0.40	_							U
m,p-Xylene o-Xylene	ND ND	0.40	ug/L							U
o-Xylene	ND									U
		0.20	ug/L							U
Surrogate: Toluene-d8	5.09	0.20	ug/L							U
0			ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	4.82		ug/L	5.00		96.5	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.06		ug/L	5.00		101	80-120			
Blank (BHC0585-BLK2)			Prep	ared: 20-Ma	r-2019 A	Analyzed: 20-	Mar-2019 1	4:01		
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	5.09		ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	4.82		ug/L	5.00		96.5	80-120			
LCS (BHC0585-BS1)			Prepa	ared: 20-Ma	r-2019 A	Analyzed: 20-	Mar-2019 1	2:18		
Benzene	10.4	0.20	ug/L	10.0		104	80-120			
Toluene	10.5	0.20	ug/L	10.0		105	80-120			
Ethylbenzene	10.4	0.20	ug/L	10.0		104	80-120			
m,p-Xylene	20.4	0.40	ug/L	20.0		102	80-121			
o-Xylene	10.2	0.20	ug/L	10.0		102	80-121			
Surrogate: Toluene-d8	5.11		ug/L	5.00		102	80-120			
Surrogate: 4-Bromofluorobenzene	5.01		ug/L	5.00		100	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.82		ug/L	5.00		96.4	80-120			
LCS (BHC0585-BS2)			Prepa	ared: 20-Ma	r-2019 A	Analyzed: 20-	Mar-2019 1	3:09		
Gasoline Range Organics (Tol-Nap)	913	100	ug/L	1000		91.3	72-128			
Surrogate: Toluene-d8	4.91		ug/L	5.00		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	5.00		ug/L	5.00		100	80-120			
LCS Dup (BHC0585-BSD1)			Prepa	ared: 20-Ma	r-2019 A	Analyzed: 20-	Mar-2019 1	2:44		
Benzene	9.90	0.20	ug/L	10.0		99.0	80-120	5.04	30	
Toluene	9.97	0.20	ug/L	10.0		99.7	80-120	5.24	30	
Ethylbenzene	9.80	0.20	ug/L	10.0		98.0	80-120	5.47	30	
m,p-Xylene	19.8	0.40	ug/L	20.0		99.2	80-121	2.52	30	

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: 11-Apr-2019 11:55

Volatile Organic Compounds - Quality Control

Batch BHC0585 - EPA 5030 (Purge and Trap)

Instrument: NT3 Analyst: PKC

OC Samula/A malata	D lt	Reporting	T I i.e	Spike	Source	0/DEC	%REC	DDD	RPD	NI-4.
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS Dup (BHC0585-BSD1)			Prepa	ared: 20-Ma	r-2019 A	nalyzed: 20-	Mar-2019 1	2:44		
o-Xylene	9.77	0.20	ug/L	10.0		97.7	80-121	4.70	30	
Surrogate: Toluene-d8	5.06		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	5.09		ug/L	5.00		102	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.19		ug/L	5.00		104	80-120			
LCS Dup (BHC0585-BSD2)			Prepa	ared: 20-Ma	r-2019 A	nalyzed: 20-	Mar-2019 1	3:35		
Gasoline Range Organics (Tol-Nap)	956	100	ug/L	1000		95.6	72-128	4.56	30	
Surrogate: Toluene-d8	4.99		ug/L	5.00		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	5.00		ug/L	5.00		99.9	80-120			
Matrix Spike (BHC0585-MS1)	Source: 1	9C0249-02	Prepa	ared: 20-Ma	r-2019 A	nalyzed: 20-	Mar-2019 2	1:51		
Benzene	11.2	0.20	ug/L	10.0	ND	112	80-120			
Toluene	11.4	0.20	ug/L	10.0	ND	114	80-120			
Ethylbenzene	11.1	0.20	ug/L	10.0	ND	111	80-120			
m,p-Xylene	22.2	0.40	ug/L	20.0	ND	111	80-121			
o-Xylene	10.9	0.20	ug/L	10.0	ND	109	80-121			
Surrogate: Toluene-d8	5.05		ug/L	5.00	4.95	101	80-120			
Surrogate: 4-Bromofluorobenzene	4.99		ug/L	5.00	5.05	99.8	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.02		ug/L	5.00	5.08	100	80-120			

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

Matrix Spike (BHC0585-MS2)	Source: 19	C0249-02	Prepa	ared: 20-Mar	-2019 A	nalyzed: 20-	Mar-2019 22:42
Gasoline Range Organics (Tol-Nap)	904	100	ug/L	1000	ND	90.4	72-128
Surrogate: Toluene-d8	5.10		ug/L	5.00	4.95	102	80-120
Surrogate: 4-Bromofluorobenzene	4.99		ug/L	5.00	5.05	99.7	80-120

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

Matrix Spike Dup (BHC0585-MSD1)	Source: 1	Source: 19C0249-02			Prepared: 20-Mar-2019 Analyzed: 20-Mar-2019 22:16						
Benzene	10.1	0.20	ug/L	10.0	ND	101	80-120	10.70	30		
Toluene	9.98	0.20	ug/L	10.0	ND	99.8	80-120	13.10	30		
Ethylbenzene	10.1	0.20	ug/L	10.0	ND	101	80-120	9.71	30		
m,p-Xylene	19.9	0.40	ug/L	20.0	ND	99.4	80-121	11.20	30		
o-Xylene	9.92	0.20	ug/L	10.0	ND	99.2	80-121	9.28	30		
Surrogate: Toluene-d8	5.09		ug/L	5.00	4.95	102	80-120				

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: 11-Apr-2019 11:55

Volatile Organic Compounds - Quality Control

Batch BHC0585 - EPA 5030 (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BHC0585-MSD1)	Source:	Prepa	red: 20-Mai	r-2019 An	alyzed: 20-	Mar-2019 2	2:16			
Surrogate: 4-Bromofluorobenzene	5.12		ug/L	5.00	5.05	102	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.07		ug/L	5.00	5.08	101	80-120			

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

Matrix Spike Dup (BHC0585-MSD2)	Source: 19	C0249-02	Prepa	ared: 20-Mar	-2019 A	nalyzed: 20-	Mar-2019 2	3:08		
Gasoline Range Organics (Tol-Nap)	918	100	ug/L	1000	ND	91.8	72-128	1.58	30	
Surrogate: Toluene-d8	4.96		ug/L	5.00	4.95	99.2	80-120			
Surrogate: 4-Bromofluorobenzene	4.99		ug/L	5.00	5.05	99.8	80-120			

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: 11-Apr-2019 11:55

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHC0518 - 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
	Result	Lillit							Liiiit	TYOICS
Blank (BHC0518-BLK1)	N.D.	0.10		ared: 19-Mar	:-2019 An	alyzed: 29-	Mar-2019 1	2:24		
Naphthalene	ND	0.10	ug/L							U
Acenaphthylene	ND	0.10	ug/L							U
Acenaphthene	ND	0.10	ug/L							U
Fluorene Phenanthrene	ND	0.10	ug/L							U U
	ND	0.10	ug/L							U
Anthracene	ND	0.10	ug/L							
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	1.51		ug/L	3.00		50.2	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.41		ug/L	3.00		80.4	10-125			
LCS (BHC0518-BS1)			Prepa	ared: 19-Mar	-2019 An	alvzed: 29-	Mar-2019 1	2:50		
Naphthalene	1.37	0.10	ug/L	3.00		45.8	33-120			
Acenaphthylene	1.47	0.10	ug/L	3.00		48.8	32-120			
Acenaphthene	1.58	0.10	ug/L	3.00		52.8	38-120			
Fluorene	1.75	0.10	ug/L	3.00		58.5	41-120			
Phenanthrene	2.11	0.10	ug/L	3.00		70.4	49-120			
Anthracene	2.06	0.10	ug/L	3.00		68.8	39-120			
Fluoranthene	2.37	0.10	ug/L	3.00		79.0	48-120			
Pyrene	2.53	0.10	ug/L	3.00		84.2	48-120			
Benzo(a)anthracene	2.17	0.10	ug/L	3.00		72.3	37-120			
Chrysene	2.51	0.10	ug/L	3.00		83.5	48-120			
Benzofluoranthenes, Total	8.96	0.20	ug/L	9.00		99.6	46-120			
Benzo(a)pyrene	2.21	0.10	ug/L	3.00		73.6	25-120			
Indeno(1,2,3-cd)pyrene	2.58	0.10	ug/L	3.00		85.9	32-120			
Dibenzo(a,h)anthracene	2.68	0.10	ug/L	3.00		89.3	21-120			
Benzo(g,h,i)perylene	2.62	0.10	ug/L	3.00		87.3	28-120			

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHC0518 - 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 (BHC0518-BS1)			Prepa	ared: 19-Mai	r-2019 A	nalyzed: 29-	Mar-2019 12	2:50		
Surrogate: 2-Methylnaphthalene-d10	1.60		ug/L	3.00		53.4	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.06		ug/L	3.00		102	10-125			
Matrix Spike (BHC0518-MS1)	Source	19C0249-02	Prepa	ared: 19-Mai	r-2019 A	nalyzed: 29-	Mar-2019 1	7:45		
Naphthalene	1.34	0.10	ug/L	3.00	ND	44.7	33-120			
Acenaphthylene	1.49	0.10	ug/L	3.00	ND	49.6	32-120			
Acenaphthene	1.57	0.10	ug/L	3.00	ND	52.3	38-120			
Fluorene	1.72	0.10	ug/L	3.00	ND	57.4	41-120			
Phenanthrene	2.07	0.10	ug/L	3.00	ND	69.0	49-120			
Anthracene	2.09	0.10	ug/L	3.00	ND	69.7	39-120			
Fluoranthene	2.35	0.10	ug/L	3.00	ND	78.2	48-120			
Pyrene	2.51	0.10	ug/L	3.00	ND	83.8	48-120			
Benzo(a)anthracene	2.26	0.10	ug/L	3.00	ND	75.4	37-120			
Chrysene	2.54	0.10	ug/L	3.00	ND	84.8	48-120			
Benzofluoranthenes, Total	8.89	0.20	ug/L	9.00	ND	98.7	46-120			
Benzo(a)pyrene	2.31	0.10	ug/L	3.00	ND	77.2	25-120			
Indeno(1,2,3-cd)pyrene	2.54	0.10	ug/L	3.00	ND	84.8	32-120			
Dibenzo(a,h)anthracene	2.59	0.10	ug/L	3.00	ND	86.2	21-120			
Benzo(g,h,i)perylene	2.61	0.10	ug/L	3.00	ND	87.0	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.61		ug/L	3.00	1.78	53.6	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.09		ug/L	3.00	2.87	103	10-125			

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

Matrix Spike Dup (BHC0518-MSD1)	Source: 1	Source: 19C0249-02			Prepared: 19-Mar-2019 Analyzed: 29-Mar-2019 18:10						
Naphthalene	1.63	0.10	ug/L	3.00	ND	54.4	33-120	19.70	30		
Acenaphthylene	1.70	0.10	ug/L	3.00	ND	56.7	32-120	13.40	30		
Acenaphthene	1.74	0.10	ug/L	3.00	ND	58.2	38-120	10.60	30		
Fluorene	1.84	0.10	ug/L	3.00	ND	61.5	41-120	6.80	30		
Phenanthrene	2.18	0.10	ug/L	3.00	ND	72.5	49-120	5.03	30		
Anthracene	2.20	0.10	ug/L	3.00	ND	73.3	39-120	5.04	30		
Fluoranthene	2.37	0.10	ug/L	3.00	ND	79.1	48-120	1.16	30		
Pyrene	2.62	0.10	ug/L	3.00	ND	87.3	48-120	4.06	30		
Benzo(a)anthracene	2.32	0.10	ug/L	3.00	ND	77.2	37-120	2.28	30		
Chrysene	2.56	0.10	ug/L	3.00	ND	85.2	48-120	0.46	30		
Benzofluoranthenes, Total	8.83	0.20	ug/L	9.00	ND	98.1	46-120	0.67	30		

Analytical Resources, Inc.



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

Reported: 11-Apr-2019 11:55

Semivolatile Organic Compounds - SIM - Quality Control

Batch BHC0518 - 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 Dup (BHC0518-MSD1)	Source: 1	19C0249-02	Prepa	ared: 19-Mai	-2019 A	nalyzed: 29-	Mar-2019 1	8:10		
Benzo(a)pyrene	2.37	0.10	ug/L	3.00	ND	79.2	25-120	2.56	30	
Indeno(1,2,3-cd)pyrene	2.57	0.10	ug/L	3.00	ND	85.6	32-120	0.89	30	
Dibenzo(a,h)anthracene	2.57	0.10	ug/L	3.00	ND	85.5	21-120	0.85	30	
Benzo(g,h,i)perylene	2.68	0.10	ug/L	3.00	ND	89.5	28-120	2.83	30	
Surrogate: 2-Methylnaphthalene-d10	1.83		ug/L	3.00	1.78	61.0	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.99		ug/L	3.00	2.87	99.5	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: 11-Apr-2019 11:55

Petroleum Hydrocarbons - Quality Control

Batch BHC0506 - EPA 3510C SepF

Instrument: FID3 Analyst: VTS

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BHC0506-BLK1)			Prepa	ared: 20-Ma	r-2019 A	nalyzed: 27-	Mar-2019 1	0:05		
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	0.232		mg/L	0.225		103	50-150			
LCS (BHC0506-BS1)			Prepa	ared: 20-Ma	r-2019 A	nalyzed: 27-	Mar-2019 1	0:27		
Diesel Range Organics (C12-C24)	2.88	0.100	mg/L	3.00		96.0	56-120			
Surrogate: o-Terphenyl	0.257		mg/L	0.225		114	50-150			
Matrix Spike (BHC0506-MS1)	Source:	19C0249-02	Prepa	ared: 20-Ma	r-2019 A	nalyzed: 27-	Mar-2019 1	1:32		
Diesel Range Organics (C12-C24)	2.88	0.100	mg/L	3.00	ND	96.1	56-120			
Surrogate: o-Terphenyl	0.159		mg/L	0.225	0.194	70.5	50-150			
Recovery limits for target analytes in MS/MSE	QC samples are advisor	y only.								
Matrix Spike Dup (BHC0506-MSD1)	Source:	19C0249-02	Prepa	ared: 20-Ma	r-2019 A	nalyzed: 27-	Mar-2019 1	1:54		
Diesel Range Organics (C12-C24)	2.73	0.100	mg/L	3.00	ND	90.9	56-120	5.47	30	

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

Analytical Resources, Inc.





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

Reported: 11-Apr-2019 11:55

Certified Analyses included in this Report

Analyte Certi	ifications
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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
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE

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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	11-Apr-2019 11:55

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 2-Pentanone **WADOE**

Analytical Resources, Inc.



Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson11-Apr-2019 11:55

EPA 8270D-SIM in Water

EFA 02/0D-SIW III Water	
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	
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Seattle WA, 98102	Project Manager: Inger Jackson	11-Apr-2019 11:55

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

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	WA100006-011	05/12/2019
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019

Analytical Resources, Inc.





Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeReported:Seattle WA, 98102Project Manager:Inger Jackson11-Apr-2019 11:55

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)
Н	Hold time violation - Hold time was exceeded.
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.

P 206.329.0141 | F 206.329.6968

2377 Eastlake Avenue East | Seattle, WA 98102

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