



July 5, 2019

Mr. Adam Brandenburg
McDonald's USA, LLC
12131 113th Avenue Northeast, Suite 103
Kirkland, Washington 98502

**Re: 2019 Second Quarter Groundwater Monitoring Report
Olympia McDonald's 46-0220
715 Plum Street Southeast
Olympia, Washington 98501
RGI Project No. 2017-282C
Ecology VCP No. SW0074**

Dear Mr. Brandenburg:

The Riley Group, Inc. (RGI) is pleased to present this 2019 Second Quarter Groundwater Monitoring Report (2019-Q2 GWM Report) for the Olympia McDonald's (46-0220) located at 715 Plum Street Southeast in Olympia, Washington (herein referred to as the Property). The general location of the Property is depicted on Figure 1. Figure 2 depicts the Property layout with a summary of groundwater analytical results.

The scope of work performed during this 2019-Q2 GWM Report is in general accordance with the *Well Installation and Quarterly Groundwater Monitoring Final Work Plan (Work Plan)*; prepared for McDonald's USA, LLC; dated May 31, 2018 (Project 2017-282A). The Work Plan was also approved by Mr. Panjini Balaraju, the Ecology Site Manager, on May 18, 2018.

McDonald's USA, LLC (hereafter referred to as the Client) retained RGI to perform the groundwater sampling activities documented herein.

SCOPE OF SERVICES

This scope of work includes sampling the three existing groundwater monitoring wells (MWA, MWB, and MW6D) on the Property as follows:

- Measured depth to static water from well top of casing (TOC) using an electronic water level meter.
- All wells were purged using a peristaltic pump. Purged water was stored in one 25-gallon drum and left on the Property.
- During well purging, RGI utilized a Hannah multi-parameter meter – which measured temperature, conductivity, and pH parameters in groundwater.
- All wells were sampled under low-flow conditions.
- Groundwater samples were collected in laboratory-supplied sample containers. Sample containers were placed in an ice-chilled cooler and transported to the analytical laboratory under proper chain-of-custody documentation.

Corporate Office
17522 Bothell Way Northeast
Bothell, Washington 98011
Phone 425.415.0551 ♦ Fax 425.415.0311

www.riley-group.com

- Prepared this 2019-Q2 GWM Report presenting our findings, observations, conclusions, and recommendations.

REGULATORY ANALYSIS OF SITE CONDITIONS UNDER MTCA

Washington State's hazardous waste cleanup law, the Model Toxics Control Act (70.105D RCW), mandates the necessity for site cleanups to protect human health and the environment. MTCA Cleanup Regulations (173-340 WAC) define the approach for establishing cleanup requirements for individual sites, including the establishment of cleanup standards and selection of cleanup actions.

MTCA Cleanup Regulations provides three options for establishing generic and site-specific cleanup levels for soil and groundwater. Method A cleanup levels have been adopted for specific purposes and are intended to provide conservative cleanup levels for sites undergoing routine site characterization or cleanup actions or those sites with relatively few hazardous substances. Method B and C cleanup levels are set using a site risk assessment, which focus on the use of "reasonable maximum exposure" assumptions based on site-specific characteristics and toxicity of the contaminants of concern.

Groundwater Cleanup Levels

The selected groundwater cleanup levels for the Property are the MTCA Method A Cleanup Levels for Groundwater. RGI's evaluation of groundwater analytical data obtained during previous investigations indicate that these groundwater cleanup levels are sufficient to evaluate whether or not groundwater concentrations of the contaminants concern (COCs) on the Property are in compliance with MTCA regulations.

For this project, the identified COCs all had a corresponding MTCA Method A Cleanup Level (WAC 173-340-720, Table 720-1).

MTCA Method A Cleanup Levels for groundwater, are summarized in Table 1. Groundwater cleanup levels were obtained from the Ecology Cleanup Levels and Risk Calculation (CLARC) database.

2019 SECOND QUARTER GROUNDWATER SAMPLING

Groundwater sampling activities were performed on June 11, 2019 and included sampling wells MWA, MWB, and MW6D.

Prior to groundwater purging or sample collection, the depth to groundwater was measured at all wells from the northernmost point of the top of each well casing using an electronic water level meter. Depth to water measurement for well MW6D was 1.88 feet below the top of well casing (TOC). Depth to water levels for both wells MWA and MWB were 0.0 feet below well TOC, indicating an artesian well where the subsurface pressure is great enough to lift the groundwater in the wells upwards, and in this case, to an elevation just higher than the TOC elevation. Corresponding groundwater elevations for wells located on the Property ranged from 15.81 feet above mean sea level (AMSL) to 16.8 feet AMSL. The TOC elevations, depth to water measurements, and corresponding groundwater elevations are summarized in the attached Table 1. Based on this information, the apparent groundwater flow direction under the Property was to the south-southwest. Based on Emcon's 1992 report, an inferred groundwater flow direction to the south-southeast was reported.

After collection of groundwater level data, wells were purged using a peristaltic pump and dedicated tubing. Measurements of water quality parameters (including temperature, pH, conductivity) were recorded using a Hannah multi-parameter meter. RGI's completed groundwater sampling field forms are included in Appendix A for reference. Well purging continued until water quality parameters had stabilized, and groundwater samples were collected.

The stabilized groundwater pH values ranged from 7.25 to 7.62, which indicate the groundwater is relatively neutral.

During sample collection, the flow rate of the pump was reduced to less than 100 milliliters per minute (mL/min) in accordance with standard low flow sampling techniques. Groundwater was pumped directly through dedicated tubing into laboratory-supplied containers appropriate for the intended analyses. A total of three groundwater samples were submitted for analyses.

Standard Sampling Protocols

All groundwater samples obtained during this project were collected in accordance with RGI's standard operating and decontamination procedures. Samples were placed in preconditioned, sterilized containers provided by an Ecology accredited analytical laboratory. All reusable equipment was decontaminated between sample locations.

All samples were appropriately labeled and stored in an iced cooler and transported to the analytical laboratory using standard chain-of-custody protocols.

Investigation Derived Waste

Investigation derived waste (IDW) consisted of purge water generated during sampling of wells. All purge water was placed in one 25-gallon steel drum, labeled non-hazardous waste, and temporarily stored with other drums north of the building on the Property. This drum will be utilized to store purge water during future groundwater sampling events.

ANALYTICAL LABORATORY ANALYSES

A total of three groundwater samples were collected during this project and submitted to Friedman and Bruya, Inc. in Seattle, Washington, for one or more of the following analyses:

- Gasoline-range TPH using Ecology Test Method NWTPH-Gx (three samples).
- Benzene, Toluene, Ethylbenzene, and Xylenes using EPA Method 8021B (three samples).
- Diesel- and oil-range TPH using Ecology Test Method NWTPH-Dx without silica gel cleanup (three samples).
- Total lead using EPA Method 6020B (three samples)

Groundwater analytical results are summarized in Table 1 and displayed graphically on Figure 2.

Copies of the analytical laboratory reports and associated sample chain-of-custody forms are included in Appendix B.

Groundwater Analytical Results

Gasoline-range TPH was not detected above the laboratory detection limit of 100 micrograms/liter ($\mu\text{g/L}$), in any of the wells. The MTCA Method A Cleanup Level for gasoline-range TPH is 1,000 $\mu\text{g/L}$.

Benzene, toluene, ethylbenzene, and xylenes were not detected in any of the wells above the laboratory detection limits of 1 $\mu\text{g/L}$, 1 $\mu\text{g/L}$, 1 $\mu\text{g/L}$, and 3 $\mu\text{g/L}$, respectively. These detection limits are well below their respective MTCA Method A Cleanup Levels of 5 $\mu\text{g/L}$, 1,000 $\mu\text{g/L}$, 700 $\mu\text{g/L}$, and 1,000 $\mu\text{g/L}$.

Oil-range TPH was not detected in any of the wells above the laboratory detection limit of 300 $\mu\text{g/L}$. The MTCA Method A Cleanup Level for oil-range TPH in groundwater is 500 $\mu\text{g/L}$.

Diesel-range TPH was not detected in any of the wells above the laboratory detection limits of 60 µg/L, with the exception of MWA which had a concentration of 87 x µg/L. This sample was flagged "x" by the laboratory chemist and the laboratory report stated "*the sample chromatographic pattern does not resemble the fuel standard used for quantitation*". In other words, the reported concentrations may be the result of naturally occurring biogenic material and/or a highly degraded petroleum hydrocarbon product. This concentration is below the MTCA Method A Cleanup Level for diesel-range TPH in groundwater of 500 µg/L.

Total lead was not detected in any of the samples above the laboratory detection limit of 1 µg/L.

CONCLUSIONS AND RECOMMENDATIONS

Based on the data obtained during this 2019 second quarter groundwater monitoring event, RGI concludes the following:

- Inferred groundwater flow direction across the Property was to the south-southwest. This flow direction is similar to that previously reported by Emcon in 1992 (south-southeast).
- Concentrations of all COCs tested in the wells on the Property during this groundwater sampling event were below the applicable MTCA Method A Groundwater Cleanup Levels.

Based on these findings, RGI recommends the following as outlined in the Ecology Work Plan:

- Submit a copy of this report to the Ecology Southwest Regional Office located in Olympia, Washington. Discuss with Ecology if any further sampling and analysis is warranted.

LIMITATIONS

This report is the property of RGI, McDonald's USA, LLC, and their authorized representatives or affiliates and was prepared in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions.

This report is intended for specific application to the Olympia McDonald's (46-0220) property located at 715 Plum Street in Olympia, Washington. No other warranty, expressed or implied, is made.

The analyses and recommendations presented in this report are based upon data obtained from our review of available information at the time of preparing this report.

Conditional changes may occur through time by natural or human-made process on this or adjacent properties.

Additional changes may occur in legislative standards, which may or may not be applicable to this report. These changes, beyond RGI's control, may render this report invalid, partially or wholly. If variations appear evident, RGI should be requested to reevaluate the recommendations in this report.

Sincerely,

THE RILEY GROUP, INC.



Stafford Larsen
Project Geologist



Audrey R. Heisey, LG, LHG
Hydrogeologist / Environmental Manager



Attachments

Figure 1, Property Vicinity Map

Figure 2, Property Representation with Groundwater Analytical Results

Table 1, Summary of Groundwater Analytical Laboratory Results

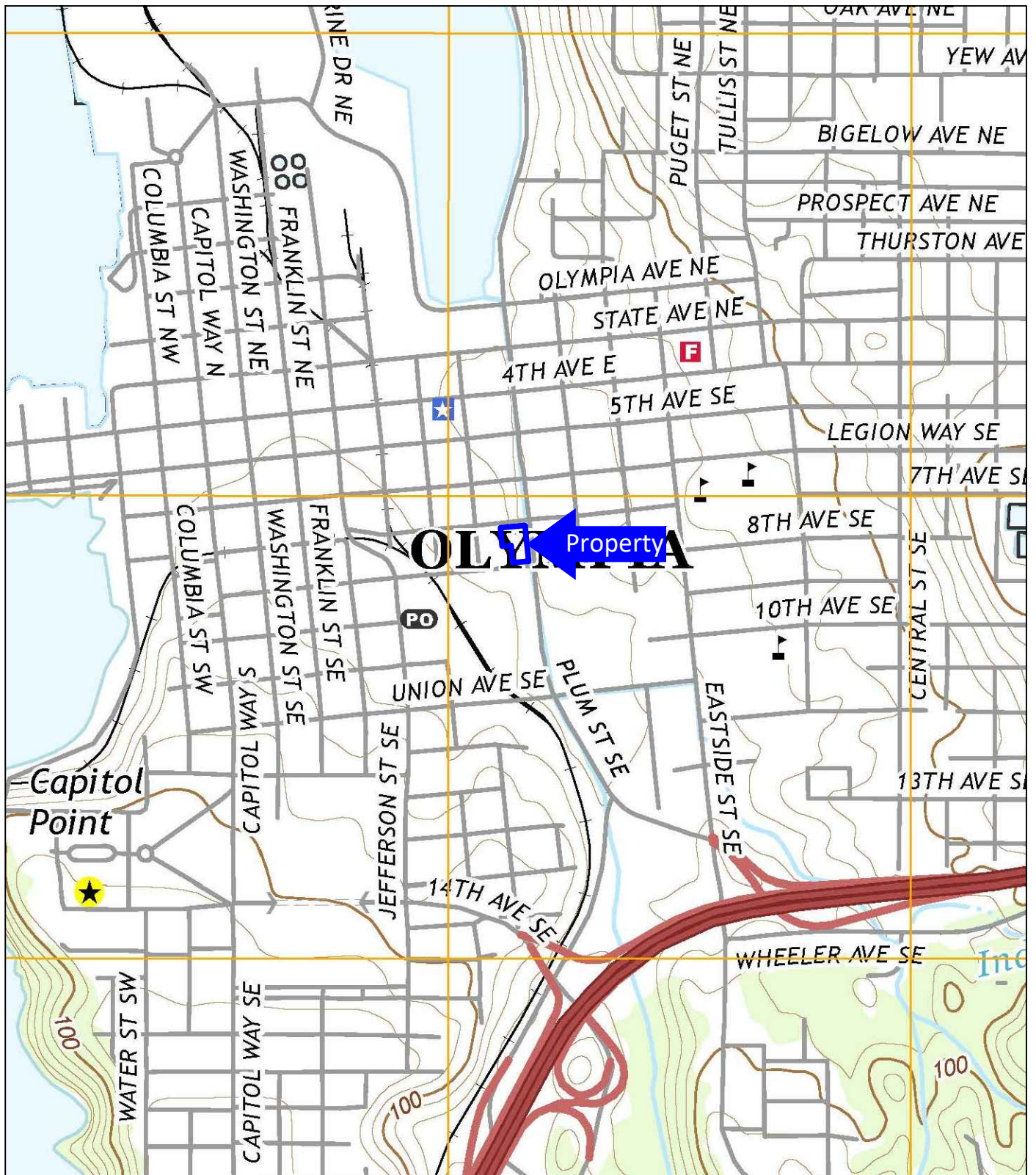
Appendix A, Groundwater Field Sampling Forms

Appendix B, Analytical Laboratory Reports and Chains of Custody

Distribution

Mr. Adam Brandenburg, McDonald's USA, LLC (electronic PDF)

Mr. Panjini Balaraju, Washington State Department of Ecology Southwest Region (two bound copies and one electronic PDF)



USGS, 2017, Tumwater, Washington
7.5-Minute Quadrangle

Approximate Scale: 1"=1000'



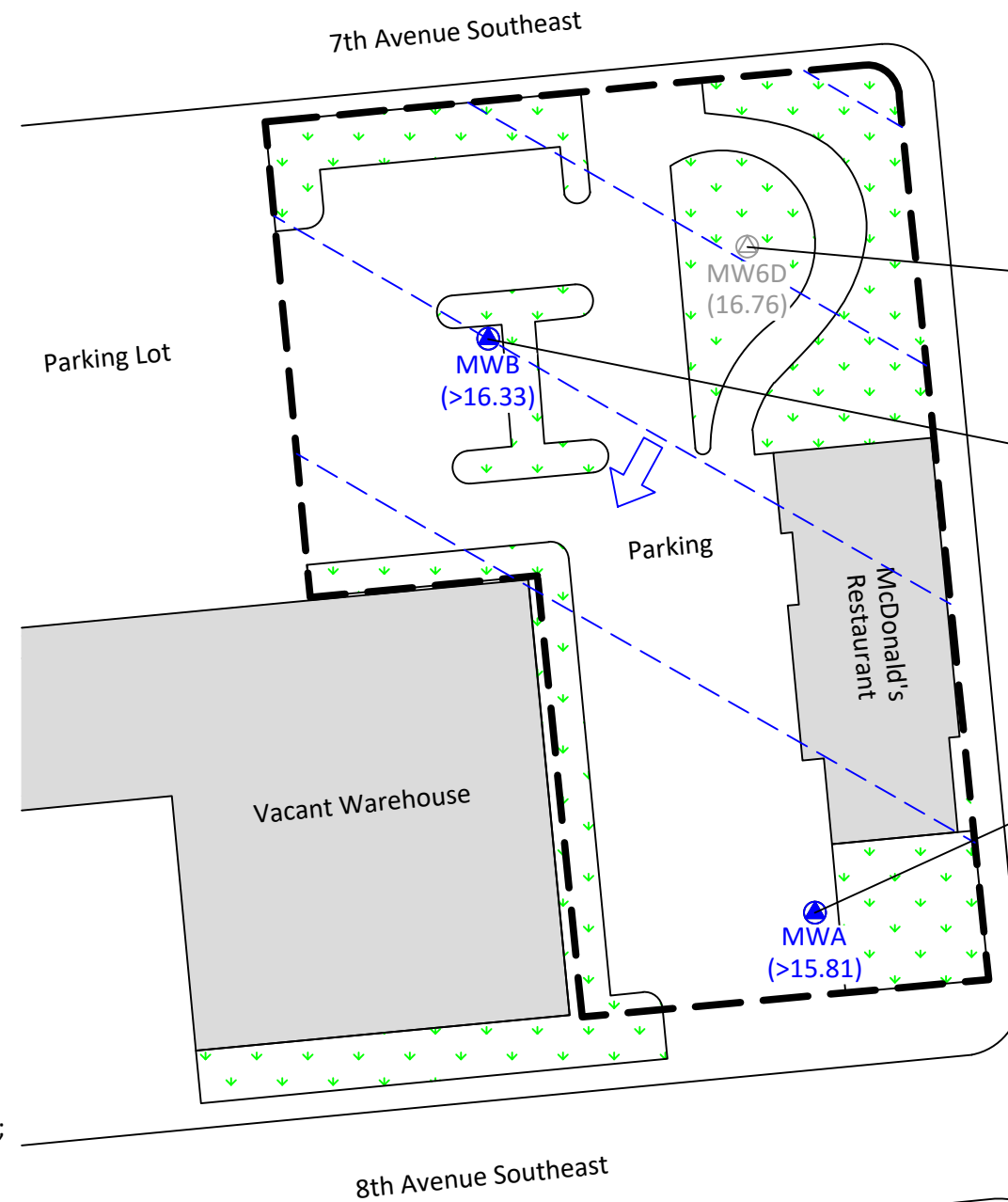
Corporate Office
17522 Bothell Way Northeast
Bothell, Washington 98011
Phone: 425.415.0551
Fax: 425.415.0311

Olympia McDonald's, 46-0220
RGI Project Number
2017-282C

Property Vicinity Map

Figure 1
Date Drawn:
07/2019

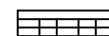
Address: 715 Plum Street Southeast, Olympia, Washington 98501








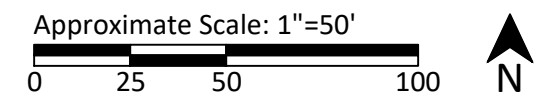
MW6D					
Date	Gas	BTEX	DSL	Oil	Total Lead
06/11/19	ND	ND	ND	ND	ND
03/08/19	ND	ND	ND	ND	2.65
12/06/18	ND	ND	ND	ND	ND
09/27/18	ND	ND	ND	ND	6.19


MWB					
Date	Gas	BTEX	DSL	Oil	Total Lead
06/11/19	ND	ND	ND	ND	ND
03/08/19	ND	ND	ND	ND	ND
12/06/18	ND	ND	ND	ND	ND
09/27/18	ND	ND	ND	ND	ND

MWA					
Date	Gas	BTEX	DSL	Oil	Total Lead
06/11/19	ND	ND	87x	ND	ND
03/08/19	ND	ND	ND	ND	ND
12/06/18	ND	ND	ND	ND	ND
09/27/18	ND	ND	72x	300	ND

 = Groundwater analytical results in micrograms per liter (µg/L);
 Gas = Gasoline total petroleum hydrocarbons
 BTEX = Benzene, toluene, ethylbenzene, xylenes
 DSL/Oil = Diesel/oil total petroleum hydrocarbons
 ND = Not detected above laboratory detection limits
 x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation
 Bold results indicate concentrations above laboratory detection limits
 Bold and yellow highlighted results (if any) indicate concentrations exceed MTCA Method A Groundwater cleanup levels

 = Apparent groundwater flow direction based on 06/11/19 measurements
 (15.81) = Groundwater elevation (based on Nav88 data) measured on 06/11/19
 = Monitoring well location by RGI, 09/20/18
 = Monitoring well location by EMCON Northwest, Inc., 12/21/91
 = Property boundary




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 Phone: 425.415.0551
 Fax: 425.415.0311

Olympia McDonald's, 46-0220		Figure 2
RGI Project Number 2017-282C	Property Representation with Groundwater Analytical Results	Date Drawn: 07/2019
Address: 715 Plum Street Southeast, Olympia, Washington 98501		

Table 1. Summary of Groundwater Sample Analytical Laboratory Results

Olympia McDonald's, 46-0220

715 Plum Street Southeast, Olympia, Washington 98501

The Riley Group, Inc. Project No. 2017-282C

Sample Number	Sample Date	TOC Elevation	Depth to Water (bgs)	Groundwater Elevation	Gasoline TPH	BTEX				Diesel TPH	Oil TPH	Total Lead
						B	T	E	X			
MWA Screened Interval 20-10 ft bgs, Total boring depth 20 ft bgs												
MWA	06/11/19	15.81	0.00	>15.81	ND<100	ND<1	ND<1	ND<1	ND<3	87 x	ND<300	ND<1
MWA	03/08/19	15.81	0.00	>15.81	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MWA	12/06/18	15.81	0.00	>15.81	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MWA	09/27/18	15.81	0.00	>15.81	ND<100	ND<1	ND<1	ND<1	ND<3	72 x	300	ND<1
MWB Screened Interval 20-12 ft bgs, Total boring depth 20 ft bgs												
MWB	06/11/19	16.33	0.00	>16.33	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MWB	03/08/19	16.33	0.00	>16.33	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MWB	12/06/18	16.33	0.00	>16.33	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MWB	09/27/18	16.33	0.00	>16.33	ND<100	ND<1	ND<1	ND<1	ND<3	ND<50	ND<250	ND<1
MW6D Screened Interval 20-15 ft bgs, Total boring depth 20 ft bgs												
MW6D	06/11/19	18.64	1.88	16.76	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	ND<1
MW6D	03/08/19	18.64	1.80	16.84	ND<100	ND<1	ND<1	ND<1	ND<3	ND<50	ND<250	2.65
MW6D	12/06/18	18.64	1.73	16.91	ND<100	ND<1	ND<1	ND<1	ND<3	ND<50	ND<250	ND<1
MW6D	09/27/18	18.64	1.69	16.95	ND<100	ND<1	ND<1	ND<1	ND<3	ND<60	ND<300	6.19
MTCA Method A Cleanup Levels for Ground Water					800/1,000¹	5	1,000	700	1,000	500	500	15

Notes:

Samples collected by RGI field staff using a peristaltic pump under low-flow conditions.

Unless otherwise noted, all analytical results are given in micrograms per liter (ug/L), equivalent to parts per billion (ppb).

TOC = Top of casing elevation in feet. Groundwater elevation based on NAV88 horizontal reference datum.

Groundwater Elevation = Groundwater elevation was recorded at well MW6; and estimated groundwater elevation at wells MWA and MWB.

Static groundwater elevations for MWA and MWB are slightly greater than their respective TOC elevations.

Gasoline TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Gx.

BTEX (benzene, toluene, ethylbenzene, and xylenes) determined using EPA Test Method 8021B.

Diesel and Oil TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Dx without silica gel cleanup.

Total lead determined using EPA Method 200.8.

ND = Not detected above the noted analytical detection limit.

---- = Not analyzed or not applicable.

x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels for Ground Water (WAC 173-340-900, Table 720-1).

¹ The higher cleanup level is applicable if no benzene is detected in groundwater.

Bold results indicate concentrations (if any) above laboratory detection limits.

Bold and yellow highlighted results indicate concentrations (if any) that exceed MTCA Method A or B Cleanup Levels for Ground Water.

Appendix A

The Riley Group, Inc.

Groundwater Sampling Information

Well No./Location : MWA				Project No: 2017-282C				Sampling Date: 06/11/19			
Depth to Water: 0 ft		Time: 11:46-11:57		Water Volume In Casing: 11.41 Liters							
Depth to Product:											
Total Depth: 18.84		Purged Time: 0:11		Volume Purged: 0.42 Liters							
Purging Method: Peri-Pump		Purge Volume Measurement Method: Graduated Cylinder									
Project Location:		Parameter Monitoring						Sampled By: TR			
Time	Cumulative Volume	pH SU	COND mS/cm	TEMP Degree C	DO mg/L	TURB NTU	ORP mV	SAL %	TDS g/L	Appearance	Odor
11:48	0.1	7.62	0.33	16.1	----	----	----	----	----	No Sheen	No
11:51	0.2	7.59	0.27	16.5	----	----	----	----	----	No Sheen	No
11:54	0.3	7.62	0.27	16.4	----	----	----	----	----	No Sheen	No
11:57	0.4	7.62	0.26	16.2	----	----	----	----	----	No Sheen	No
Sampling Methods:				Sample Data				Waste Container:			
Field Sample No.	Sample Container	Time	Sample Depth	Matrix Type	Sample Type	Preserved By					
Chain of Custody (yes/no):				Duplicate Sample Numbers:							
Analytical Lab	Lab Name:			Date Sent to Lab:							
	Lab Address:			Shipment Method:							
Analytical Lab/QC	Lab Name:			Date Sent to Lab:							
	Lab Address:			Shipment Method:							
Split	Name(s):										
	Organization(s):										
Matrix Types				Sample Types							
AA ambient air	GW groundwater	SD sediment	SW surface water	CS composite sample	FB field blank						
BM building material	NS near-surface soil	SL soil	TI tissue	ER equipment rinsate	FD field duplicate						
DR debris/rubble	SB subsurface soil	SU sludge	WR water	ES environmental sample	TB trip blank						
Additional Comments:											
Recorder:						Date:					
Checker:						Date:					

The Riley Group, Inc.

Groundwater Sampling Information

Well No./Location : MWB				Project No: 2017-282C				Sampling Date: 06/11/19			
Depth to Water: 0 ft			Time: 12:20-12:33			Water Volume In Casing: 13.63 Liters					
Depth to Product:											
Total Depth: 18.97			Purged Time: 0:13			Volume Purged: 0.8 Liters					
Purging Method: Peri-Pump			Purge Volume Measurement Method: Graduated Cylinder								
Project Location:				Parameter Monitoring				Sampled By: TR			
Time	Cumulative Volume	pH SU	COND mS/cm	TEMP Degree C	DO mg/L	TURB NTU	ORP mV	SAL %	TDS g/L	Appearance	Odor
12:21	0.0	7.59	0.21	21.5	----	----	----	----	----	No Sheen	No
12:24	0.2	7.42	0.22	16.5	----	----	----	----	----	No Sheen	No
12:27	0.4	7.41	0.22	15.0	----	----	----	----	----	No Sheen	No
12:30	0.6	7.40	0.22	14.8	----	----	----	----	----	No Sheen	No
12:33	0.8	7.40	0.22	14.7	----	----	----	----	----	No Sheen	No
Sampling Methods:				Sample Data				Waste Container:			
Field Sample No.	Sample Container	Time	Sample Depth	Matrix Type	Sample Type	Preserved By					
Chain of Custody (yes/no):				Duplicate Sample Numbers:							
Analytical Lab	Lab Name:			Date Sent to Lab:							
	Lab Address:			Shipment Method:							
Analytical Lab/QC	Lab Name:			Date Sent to Lab:							
	Lab Address:			Shipment Method:							
Split	Name(s):										
	Organization(s):										
Matrix Types				Sample Types							
AA ambient air	GW groundwater	SD sediment	SW surface water	CS composite sample	FB field blank						
BM building material	NS near-surface soil	SL soil	TI tissue	ER equipment rinsate	FD field duplicate						
DR debris/rubble	SB subsurface soil	SU sludge	WR water	ES environmental sample	TB trip blank						
Additional Comments:											
Recorder:						Date:					
Checker:						Date:					

The Riley Group, Inc.

Groundwater Sampling Information

Well No./Location : MW6D				Project No: 2017-282C				Sampling Date: 06/11/19			
Depth to Water: 1.88			Time: 15:53-13:03				Water Volume In Casing: 8.33 Liters				
Depth to Product:											
Total Depth: 15.92			Purged Time: 0:10				Volume Purged: 0.3 Liters				
Purging Method: Peri-Pump			Purge Volume Measurement Method: Graduated Cylinder								
Project Location:				Parameter Monitoring				Sampled By: TR			
Time	Cumulative Volume	pH SU	COND mS/cm	TEMP Degree C	DO mg/L	TURB NTU	ORP mV	SAL %	TDS g/L	Appearance	Odor
12:54	0.0	7.58	0.20	19.7	----	----	----	----	----	No Sheen	No
12:57	0.1	7.24	0.21	16.0	----	----	----	----	----	No Sheen	No
13:00	0.2	7.24	0.21	15.2	----	----	----	----	----	No Sheen	No
13:03	0.3	7.25	0.21	14.9	----	----	----	----	----	No Sheen	No
Sampling Methods:				Sample Data				Waste Container:			
Field Sample No.	Sample Container	Time	Sample Depth	Matrix Type	Sample Type	Preserved By					
Chain of Custody (yes/no):				Duplicate Sample Numbers:							
Analytical Lab	Lab Name:				Date Sent to Lab:						
	Lab Address:				Shipment Method:						
Analytical Lab/QC	Lab Name:				Date Sent to Lab:						
	Lab Address:				Shipment Method:						
Split	Name(s):										
	Organization(s):										
Matrix Types				Sample Types							
AA ambient air	GW groundwater	SD sediment	SW surface water	CS composite sample	FB field blank						
BM building material	NS near-surface soil	SL soil	TI tissue	ER equipment rinsate	FD field duplicate						
DR debris/rubble	SB subsurface soil	SU sludge	WR water	ES environmental sample	TB trip blank						
Additional Comments:											
Recorder:						Date:					
Checker:						Date:					

Appendix B

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 18, 2019

Stafford Larsen, Project Manager
The Riley Group, Inc.
17522 Bothell Way NE
Bothell, WA 98011

Dear Mr Larsen:

Included are the results from the testing of material submitted on June 12, 2019 from the Olympia McDonalds 2017-282C, F&BI 906225 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Tait Russel, Audrey Heisey
TRG0618R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 12, 2019 by Friedman & Bruya, Inc. from the The Riley Group Olympia McDonalds 2017-282C, F&BI 906225 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
906225 -01	MWA
906225 -02	MWB
906225 -03	MW6D

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/19

Date Received: 06/12/19

Project: Olympia McDonalds 2017-282C, F&BI 906225

Date Extracted: 06/13/19

Date Analyzed: 06/13/19

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
MWA 906225-01	<1	<1	<1	<3	<100	93
MWB 906225-02	<1	<1	<1	<3	<100	94
MW6D 906225-03	<1	<1	<1	<3	<100	94
Method Blank 09-1297 MB	<1	<1	<1	<3	<100	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/19

Date Received: 06/12/19

Project: Olympia McDonalds 2017-282C, F&BI 906225

Date Extracted: 06/13/19

Date Analyzed: 06/13/19

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-D_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
MWA 906225-01 1/1.2	87 x	<300	96
MWB 906225-02 1/1.2	<60	<300	91
MW6D 906225-03	<60	<300	86
Method Blank 09-1390 MB	<50	<250	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWA	Client:	The Riley Group
Date Received:	06/12/19	Project:	Olympia McDonalds 2017-282C
Date Extracted:	06/13/19	Lab ID:	906225-01
Date Analyzed:	06/13/19	Data File:	906225-01.077
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MWB	Client:	The Riley Group
Date Received:	06/12/19	Project:	Olympia McDonalds 2017-282C
Date Extracted:	06/13/19	Lab ID:	906225-02
Date Analyzed:	06/13/19	Data File:	906225-02.078
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW6D	Client:	The Riley Group
Date Received:	06/12/19	Project:	Olympia McDonalds 2017-282C
Date Extracted:	06/13/19	Lab ID:	906225-03
Date Analyzed:	06/13/19	Data File:	906225-03.079
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	The Riley Group
Date Received:	NA	Project:	Olympia McDonalds 2017-282C
Date Extracted:	06/13/19	Lab ID:	I9-364 mb
Date Analyzed:	06/13/19	Data File:	I9-364 mb.059
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Lead	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/19

Date Received: 06/12/19

Project: Olympia McDonalds 2017-282C, F&BI 906225

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 906226-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	88	73-126
Xylenes	ug/L (ppb)	150	87	74-118
Gasoline	ug/L (ppb)	1,000	93	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/19

Date Received: 06/12/19

Project: Olympia McDonalds 2017-282C, F&BI 906225

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	84	98	58-134	15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/19

Date Received: 06/12/19

Project: Olympia McDonalds 2017-282C, F&BI 906225

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 906204-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	ug/L (ppb)	10	<1	91	93	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	ug/L (ppb)	10	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

906225

SAMPLE CHAIN OF CUSTODY ME 6/12/19

VW1/AI2/AD5

Report To Stafford Larsen

SAMPLERS (signature)

Company RGF

PROJECT NAME

PO #

Address

Olympia records 2017-2018

City, State, ZIP

REMARKS

INVOICE TO

Phone _____ Email slarsen@riley-grays.com

cc: trussell@riley-grays.com
cheisy@11

Page # _____ of _____

TURNAROUND TIME

Standard Turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
 Archive Samples
 Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						TPH-HCID	TPH-Diesel $\frac{50}{100}$	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	Total Lead				
<u>nwA</u>	<u>01A-D</u>	<u>6/11</u>		<u>water</u>	<u>4</u>	X	X	X				X					*VOA broken upon receipt 6/12
<u>nwB</u>	<u>02A-E</u>	↓		↓	<u>5</u>	X	X	X				X					
<u>nwGD</u>	<u>03</u>	↓		↓	↓	X	X	X				X					

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>[Signature]</u>	<u>RGF</u>	<u>6/11</u>	<u>1545</u>
Received by: <u>L. FOGNENY</u>	<u>FED EX FORM</u>	<u>FED EX</u>	<u>6/12</u>	<u>945AM</u>
Relinquished by: <u>[Signature]</u>				
Received by: <u>[Signature]</u>	<u>DO VO</u>	<u>FBI</u>	<u>6-12-19</u>	<u>11:20</u>