# SD&C

PO Box 2071, Kirkland, WA 98083 ts4sdc@hotmail.com

Phone (206) 459-5775

# Quarterly Groundwater and Treatment System Monitoring Report (Quarter #3 – 2015)

# Lake Goodwin Gas Station 4726 Lakewood Road Stanwood, WA

# **Prepared for:**

Ms. Karen Ryan Lake Goodwin Gas Station 4726 Lakewood Road Stanwood, WA

# Submitted by:

Slotta Design & Consulting (SD&C) PO Box 2071 Kirkland, WA 98083

October 12, 2015



Timothy S. Slotta

Timothy S. Slotta L.H.G. #2175 Hydrogeologist

1.0 INTRODUCTION	
<ul> <li>1.1 General</li> <li>1.2 Site Description</li> <li>1.3 Background</li> <li>1.4 Scope of Work</li> </ul>	.1
1.4 Scope of Work	.2
2.0 FIELD ACTIVITIES	.2
2.1 Water Monitoring and Sampling	.2
3.0 CHEMICAL ANALYSES AND RESULTS	
<ul><li>3.1 Laboratory Analyses of Water Samples</li><li>3.2 Results of Sample Analyses</li></ul>	2
4.0 SUMMARY AND CONCLUSIONS	
5.0 LIMITATIONS	
6.0 REFERENCES	3

# **TABLE OF CONTENTS**

# LIST OF TABLES

1 Laboratory Chemical Analytical Results For Groundwater Samples	1
2 Monitoring Well Elevation Data	5

# LIST OF FIGURES

1 Site Location Maps	6
2 Sample Location Map	7
3 Treatment System Schematic	8

# LIST OF APPENDICES

I Laboratory Reports

# **1.0 INTRODUCTION**

# 1.1 General

This report presents the results of the Third Quarter (Q3-2015) monitoring event conducted by Slotta Design and Consulting (SD&C) at the Lake Goodwin Grocery located in Stanwood, Washington (Figure 1). The groundwater sampling, and monitoring activities were conducted in accordance with the Washington Department of Ecology (Ecology's) Model Toxics Control Act (MTCA) WAC 173-340, Voluntary Cleanup Program (VCP), with the intent of achieving "no further action" (NFA) designation for the site.

# **1.2** Site Description

The irregular-shaped property located at 4726 Lakewood Road, is situated on the shoreline of Lake Goodwin. The 6.79 acre property is comprised of 13 parcels used as a recreational vehicle resort. The property includes the Lake Goodwin Grocery, a 1926-era convenience store with an office, and a 1998-era gas station canopy with two operational underground storage tanks (USTs). The gas station area is mostly concrete and asphalt paved and used for parking and fuel distribution. The principal site features as they relate to the gas station building are illustrated in Figure 2. The grocery store and fuel distribution canopy are located on the central portion of the site adjacent to Lakewood Road located to the north. The site is generally level and slopes gradually toward Lake Goodwin, which is located directly to the south/southeast. The property is bordered to the west by undeveloped land and east by Snohomish County's Lake Goodwin Park.

### 1.3 Background

SD&C was contracted on December 19, 2013 to review the site conditions after a gasoline spill occurred. Groundwater in monitoring wells in the vicinity of the release area (MW-4, 5, and 6) contained petroleum hydrocarbon compounds (PHC) at concentrations which exceeded MTCA method A cleanup levels. The results of the groundwater samples collected from the wells are included in Table 1, and the elevation data measured from each monitoring well is included in Table 2.

After the spill the water level control well (PW-1), contained 18-inches of free-phase PHC product. PW-1 is a 12-inch diameter PVC pipe which was installed during site upgrades in 1987. PW-1 is currently operated to create a localized depression of the shallow water table in the area, and lower the water level in the vicinity of the UST compound and the fuel pumps. The water from PW-1 has historically been discharged to the ground surface in a grassy bio-swale south of the fuel distribution area and has not been regulated. The PW-1 discharge has been retrofitted to discharge through parallel 55-gallon carbon filters. An air sparging system is also in operation at PW-1 which is composed of a Rotron-blower connected with subsurface 2" PVC piping to discharge beneath the groundwater surface. A system schematic illustrating the air-sparging, and pumping with carbon treatment is included in Figure 3.

# 1.4 Scope of Work

The Q3-2015 sampling event was conducted by SD&C on October 7, 2015. This report summarizes the sampling data and historical results of samples collected from the monitoring wells, PW-1, and the water treatment system discharge (DIS-1).

SD&C conducted the following quarterly monitoring activities:

- Collecting groundwater from the sampling locations.
- Submitting the samples under chain-of-custody to a laboratory for analysis.
- Evaluating the results of the laboratory analyses of the water samples.
- Preparing this written report to summarize the field data and the laboratory results.

The carbon treatment drums were not replenished during the current quarter because the sampling results indicated that there was life in the absorption capacity of the current drum.

# 2.0 FIELD ACTIVITIES

# 2.1 Water Monitoring and Sampling

The monitoring wells (MW-4, 5 and 6) were sampled in accordance with EPA approved protocol using a low flow peristaltic pump directly into laboratory prepared VOA vials. The PW-1 and DIS-1 samples were collected directly from the discharge piping. The water samples were delivered under chain-of-custody to ALS Laboratory of Everett, WA for analysis.

# 3.0 CHEMICAL ANALYSES AND RESULTS

# 3.1 Laboratory Analyses of Water Samples

Copies of the original laboratory reports are included as Appendix I. The water samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbons (TPH) Volatile Range as Gasoline, using Ecology Method WTPH-Gx; and
- Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX), using EPA Method 8020 modified.

# **3.2 Results of Sample Analyses**

The results of the samples are summarized in Table 1. The samples from all of the monitoring wells, PW-1 and DIS-1 did not contain detectable concentrations of PHCs.

### 4.0 SUMMARY AND CONCLUSIONS

SD&C conducted this Q3-2015 groundwater monitoring and sampling event at the Lake Goodwin Grocery located in Stanwood, WA on October 7, 2015. The quarterly water monitoring and remediation activities were conducted with the intent of achieving an NFA designation with Ecology's VCP. Ecology requires four consecutive quarters of water monitoring data with chemical concentrations below the MTCA method A cleanup levels prior to authorizing a NFA.

The Q3-2015 results of the water samples collected from the monitoring wells (MW-4, 5, and 6), PW-1, and DIS-1 did not contain detectable concentrations of PHCs. The concentrations of the chemicals of concern in PW-1 decreased below the previous quarterly event.

The carbon in the treatment system continues to work properly. The continued operation of the air sparging system at the pumping well PW-1 appears to be successful in reducing the PHC concentrations in the groundwater.

On June 1, 2015 SD&C received notice that the site has been accepted into the VCP. This report will be submitted to Ecology for their review. One additional monitoring event is required to fulfill the MTCA requirements.

### **5.0 LIMITATIONS**

SD&C's conclusions are based on conditions encountered at the time of field activities, information provided, and the results of qualitative sampling. The opinions expressed in this report are based on an evaluation of the subsurface conditions encountered, and the assumption that the water conditions in proximity to the sample sites do not deviate appreciably from those examined. Any unusual conditions not identified during this monitoring event should be brought to the attention of SD&C so that modifications may be made if necessary.

SD&C's work was performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

### **6.0 REFERENCES**

Ecology. October 1992. *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*. Washington State Department of Ecology, Olympia, Washington. 35 pp.

Sample ID	Sample	WTPH-G	Benzene	Toluene		
	Date	(mg/L, ppb)	(ug/L, ppb)	(ug/L, ppb)	Ethyl Benzene (ug/L, ppb)	Xylenes
Well Water			(-8-2, ppo)	(ug/2, pp0)	(ug/L, pp0)	(ug/L, ppb)
PW-1	12-19-13	550,000	N/A	N/A	N/A	N/A
PW-1	3-5-14	330	2,400	14,000	3,800	30,000
PW-1	5-20-14	15	100	1,500	240	2,300
PW-1	8-15-14	0.067	<1	1.2	240	8.7
PW-1	12-8-14	6.8	30	62	92	750
PW-1	3-31-15	0.930	<1	<1	2	30
PW-1	6-19-15	0.120	<1	<1	<1	6.9
PW-1	10-7-15	< 0.05	<1	<1	<1	<3
1 4337 4						
MW-4	12-19-13	17	57	960	350	2,100
MW-4	3-5-14	< 0.05	<1	<1	<1	<3
MW-4	5-20-14	< 0.05	<1	<1	<1	<3
MW-4	8-15-14	< 0.05	<1	<1	<1	<3
MW-4	12-8-14	< 0.05	<1	<1	<1	<3
MW-4	3-31-15	< 0.05	<1	<1	<1	<3
MW-4	6-19-15	< 0.05	<1	<1	<1	<3
MW-4	10-7-15	< 0.05	<1	<1	<1	<3
MW-5	12-19-13	1.9	18	100		
	3-5-14	<0.05	15	180	47	280
MW-5	5-20-14	<0.03	<1	<1	<1	<3
MW-5	8-15-14	<0.03	<1	<1	<1	<3
MW-5	12-8-14	<0.05	<1	<1	<1	<3
MW-5	3-31-15	<0.05	<1	<1	<1	<3
MW-5	6-19-15		<1	<1	<1	<3
MW-5	10-7-15	<0.05 <0.05	<1	<1	<1	<3
	10-7-15	<0.05	<1	<1	<1	<3
MW-6	12-19-13	1.6	11	130	34	220
MW-6	3-5-14	< 0.05	7.1	<1	<1	<3
MW-6	5-20-14	< 0.05	3.7	<1	<1	<3
MW-6	8-15-14	< 0.05	3.7	<1	<1	<3
MW-6	12-8-14	< 0.05	<1	<1	<1	<3
MW-6	3-31-15	< 0.05	<1	<1	<1	<3
MW-6	6-19-15	< 0.05	<1	<1	<1	A DESCRIPTION OF A DESC
MW-6	10-7-15	< 0.05	<1	<1	<1	<3
Dischange Weter						
Discharge Water Discharge Water Dis-1	1214	0.07				
	1-3-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	5-13-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	12-8-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	3-31-15	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	6-19-15	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	10-7-15	< 0.05	<1	<1	<1	<3
Discharge Water Dis-2	5-13-14	<0.05	<1	<1		
Discharge Water Dis-2	8-15-14	<0.05	<1		<1	<3
Storm Water			<u></u>	<1	<1	<3
SW-1	5-13-14	< 0.05	<1	<1	<1	<3
MTCA Method A cleanu		1.0	5	1,000	700	1,000
Method Reporting Li	mit	0.050	1	1	1	1,000

# Table 1 - Laboratory Chemical Analytical Results Groundwater Samples Lake Goodwin Grocery - Stanwood, WA

Milligrams per liter (mg/L), parts per million (ppm) Micrograms per liter ( $\mu$ g/L), parts per billion (ppb). <1.0 = not detected at or above the method reporting limit. N/A = not analyzed MTCA Method A cleanup levels for groundwater are from WAC chapter 173-340 revised 2-12-01.

Monitoring Well	Date	Casing	Depth to	Groundwater
		Elevation	Groundwater	Elevation
MW-4	5/13/14	342.06	1.16	340.90
MW-4	8/15/14	342.06	2.66	339.40
MW-4	12/15/14	342.06	.92	341.14
MW-4	3/31/15	342.06	1.54	340.52
MW-4	6/19/15	342.06	2.03	340.03
MW-4	10/7/15	342.06	2.75	339.31
MW-5	5/13/14	342.87	2.33	340.54
MW-5	8/15/14	342.87	3.75	339.12
MW-5	12/15/14	342.87	1.84	341.03
MW-5	3/31/15	342.87	2.02	340.85
MW-5	6/19/15	342.87	2.78	340.09
MW-5	10/7/15	342.87	3.84	339.03
MW-6	5/13/14	342.58	1.66	340.92
MW-6	8/15/14	342.58	3.10	339.48
MW-6	12/15/14	342.58	1.32	341.26
MW-6	3/31/15	342.58	1.63	340.95
MW-6	6/19/15	342.58	2.58	340.00
MW-6	10/7/15	342.58	3.19	339.39

# Table 2 Monitoring Well Elevation Data Lake Goodwin Grocery – Stanwood, WA







# **APPENDIX I**

# LABORATORY REPORTS



October 9, 2015

Mr. Tim Slotta SD & C PO Box 2071 Kirkland, WA 98083

Dear Mr. Slotta,

On October 7th, 5 samples were received by our laboratory and assigned our laboratory project number EV15100051. The project was identified as your Lake Goodwin. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

agun

Rick Bagan Laboratory Director

Page 1

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 PHONE 425-356-2600

00 FAX 425-356-2626

ALS Group USA, Corp

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



		CERTIF	ICATE OF ANALYSIS				
CLIENT:	SD & C			DATE:	10/9/20	)15	
	PO Box 2071 Kirkland, WA 98083			ALS JOB#:	EV151	00051	
CLIENT CONTACT:	Tim Slotta		D	ALS SAMPLE#: ATE RECEIVED:		00051-01	
CLIENT PROJECT:	Lake Goodwin			LECTION DATE:	10/07/2	2015 )15 1:00:00 F	
CLIENT SAMPLE ID	MW-4			CREDITATION:	C601	/13 1.00.00 F	-171
		SAMPL	E DATA RESULTS				
ANALYTE			REPORTING	DILUTION	UNITS	ANALYSIS A	VALYSIS
TPH-Volatile Range	METHOD NWTPH-GX	RESULTS U	LIMITS	FACTOR		DATE	ВҮ
Benzene	EPA-8021	U	50	1	UG/L	10/08/2015	PAB
Toluene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Ethylbenzene	EPA-8021	-	1.0	1	UG/L	10/08/2015	PAB
Xylenes	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
		U	3.0	1	UG/L	10/08/2015	PAB
SURROGATE		ANALYSIS ANALY					
TFT	METHOD	%REC				DATE	BY
TFT	NWTPH-GX	87.8				10/08/2015	PAB
	EPA-8021	88.9				10/08/2015	PAB

Page 2 ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626

ALS Group USA, Corp

Environmentar 🦣

# www.alsglobal.com

RIGHT SOLUTIONS BIGHT PARTDER



		CERTIFI	CATE OF ANALYSIS				
CLIENT:	SD & C PO Box 2071 Kirkland, WA 98083	DATE: 10/9/2015 ALS JOB#: EV1510005			00051		
CLIENT CONTACT:	Tim Slotta		D	ALS SAMPLE#:		00051-02	
CLIENT PROJECT:	Lake Goodwin			ECTION DATE:	10/07/2	15 12:30:00	DM
CLIENT SAMPLE ID	MW-5			CREDITATION:	C601	10 12.00.00	1 101
		SAMPL	E DATA RESULTS				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	NALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	10/08/2015	PAB
Benzene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Toluene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Xylenes	EPA-8021	U	3.0	1	UG/L	10/08/2015	PAB
						ANALYSIS AN	ALYSIS
SURROGATE	METHOD	%REC				DATE	BY
TFT	NWTPH-GX	98.6				10/08/2015	PAB
TFT	EPA-8021	94.6				10/08/2015	PAB

Page 3

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626

ALS Group USA, Corp

# www.alsglobal.com

RIGHT SOLUTIONS NIGHT PARTNER



		CERTIFIC	ATE OF ANALYSIS				
CLIENT:	SD & C PO Box 2071			DATE:	10/9/20		
	Kirkland, WA 98083			ALS JOB#: ALS SAMPLE#:	EV151 EV151	00051 00051-03	
CLIENT CONTACT: CLIENT PROJECT:	Tim Slotta Lake Goodwin			ATE RECEIVED:	10/07/2		
CLIENT SAMPLE ID	MW-6			LECTION DATE:		)15 12:00:00	PM
		SAMPLE	E DATA RESULTS	CREDITATION:	C601		
		<u> </u>					
ANALYTE TPH-Volatile Range	METHOD NWTPH-GX	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AI DATE	NALYSIS BY
Benzene	EPA-8021	U U	50	1	UG/L	10/08/2015	PAB
Toluene	EPA-8021	U	1.0 1.0	1	UG/L	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	1.0	1	UG/L UG/L	10/08/2015 10/08/2015	PAB PAB
Xylenes	EPA-8021	U	3.0	1	UG/L	10/08/2015	PAB
						ANALYSIS AN	AL YSIS
SURROGATE TFT	METHOD	%REC				DATE	BY
TFT	NWTPH-GX EPA-8021	96.9				10/08/2015	PAB
	EFA-8021	95.8				10/08/2015	PAB

Page 4 ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626

ALS Group USA, Corp

# www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

menutremmenter 3



		CERTIFIC	CATE OF ANALYSIS				
CLIENT:	SD & C PO Box 2071 Kirkland, WA 98083	DATE: ALS JOB#:			10/9/20 EV1510	00051	
CLIENT CONTACT:	Tim Slotta		ים	ALS SAMPLE#:		00051-04	
CLIENT PROJECT:	Lake Goodwin			ECTION DATE:	10/07/2	015 15 11:30:00	A N /
CLIENT SAMPLE ID	PW-1			CREDITATION:	C601	15 11.50.00	AIVI
		SAMPL	E DATA RESULTS		0001		
			REPORTING	DILUTION			
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	ANALYSIS AI DATE	BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	10/08/2015	PAB
Benzene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Toluene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	10/08/2015	PAB
Xylenes	EPA-8021	U	3.0	1	UG/L	10/08/2015	PAB
						ANALYSIS AM	VALYSIS
SURROGATE	METHOD	%REC				DATE	BY
TFT	NWTPH-GX	89.1				10/08/2015	PAB
TFT	EPA-8021	95.0				10/08/2015	PAB

Page 5

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626

ALS Group USA, Corp

- Charles and a strend of

# www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



		CERTIFIC	ATE OF ANALYSIS				
CLIENT:	SD & C PO Box 2071			DATE:	10/9/20	015	
	Kirkland, WA 98083			ALS JOB#:	EV151		
CLIENT CONTACT:	Tim Slotta		П	ALS SAMPLE#: ATE RECEIVED:		00051-05	
CLIENT PROJECT:	Lake Goodwin			LECTION DATE:	10/07/2		
CLIENT SAMPLE ID	DIS-1			CCREDITATION:	C601	015 11:00:00	AM
		SAMPLE	DATA RESULTS	BOILEDITATION.	0001		
			REPORTING	DILUTION			
ANALYTE TPH-Volatile Range	METHOD NWTPH-GX	RESULTS	LIMITS	FACTOR	UNITS	ANALYSIS AI DATE	NALYSIS BY
Benzene	EPA-8021	U	50	1	UG/L	10/08/2015	PAB
Toluene	EPA-8021	U U	1.0	1	UG/L	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	1.0 1.0	1	UG/L	10/08/2015	PAB
Xylenes	EPA-8021	U	3.0	1	UG/L	10/08/2015	PAB
			0.0	I	UG/L	10/08/2015	PAB
SURROGATE	METHOD					ANALYSIS AN	
TFT	NWTPH-GX	%REC				DATE	BY
TFT	EPA-8021	95.5				10/08/2015	PAB
	EI A-8021	95.1				10/08/2015	PAB

Page 6

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626

ALS Group USA, Corp

# www.alsglobal.com

RIGHT SOLUTIONS DIGHT PARTDER



	CEF	RTIFICATE OF ANALYSIS
CLIENT: CLIENT CONTACT: CLIENT PROJECT:	SD & C PO Box 2071 Kirkland, WA 98083 Tim Slotta Lake Goodwin	DATE: ALS SDG#: WDOE ACCREDITATION:
	LABOI	

# LABORATORY BLANK RESULTS

10/9/2015

C601

EV15100051

# MBG-100815W2 - Batch 97888 - Water by NWTPH-GX

ANALYTE TPH-Volatile Range U - Analyte analyzed for but not c MB-100815W2 - Batch 978			QUAL	units Ug/L	REPORTING LIMITS 50	ANALYSIS DATE 10/08/2015	ANALYSIS BY PAB
ANALYTE Benzene	METHOD	RESULTS	QUAL	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Toluene	EPA-8021 EPA-8021	U U		UG/L UG/L	1.0 1.0	10/08/2015 10/08/2015	PAB PAB
Ethylbenzene Xylenes	EPA-8021 EPA-8021	U U		UG/L UG/L	1.0 3.0	10/08/2015 10/08/2015	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

Page 7

PHONE 425-356-2600

FAX 425-356-2626

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



CERTIFICATE OF ANALYSIS

#### CLIENT: SD & C PO Box 2071 Kirkland, WA 98083 **CLIENT CONTACT:** Tim Slotta CLIENT PROJECT: Lake Goodwin

#### DATE: 10/9/2015 ALS SDG#: EV15100051 WDOE ACCREDITATION:

C601

# LABORATORY CONTROL SAMPLE RESULTS

# ALS Test Batch ID: 97888 - Water by NWTPH-GX

SPIKED COMPOUND TPH-Volatile Range - BS	METHOD	%REC 94.9	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
11 11 Volatile Halige - DS	NWTPH-GX			10/08/2015	PAB
TPH-Volatile Range - BSD	NWTPH-GX	95.8	4	10/00/2010	T AD
	NWIT IFOX	93.8		10/08/2015	PAB

# ALS Test Batch ID: 97888 - Water by EPA-8021

SPIKED COMPOUND Benzene - BS	METHOD	%REC	RPD QL	JAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BSD	EPA-8021 EPA-8021	98.2 97.3			10/08/2015	PAB
Toluene - BS	EPA-8021	97.3 98.4	1		10/08/2015	PAB
Toluene - BSD	EPA-8021	98.5	0		10/08/2015 10/08/2015	PAB
Ethylbenzene - BS	EPA-8021	99.5			10/08/2015	PAB PAB
Ethylbenzene - BSD	EPA-8021	99.4	0		10/08/2015	PAB
Xylenes - BS	EPA-8021	103			10/08/2015	PAB
Xylenes - BSD	EPA-8021	102	0		10/08/2015	PAB

APPROVED BY

### Laboratory Director

Page 8

PHONE 425-356-2600 FAX 425-356-2626

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

### www.alsglobal.com

RIGHT SOLUTIONS DIGHT PARTNER

	13	(installer of	<u>ند :</u>									ŝ				,ť								1.	ч <sub>ъ.</sub>
Σ					SNG	DITIO	NOC	0005	ED IN C	CEIN	BR		İ				1		-			1	1		des
(Laboratory Use Only)	_				j.	S	Hav	IIATNO:	R OF C	JABE	N C	10	72	11	24	2			·		-				Turnaround request less than standard may incur Rush Charges
toy Use	ا ين											1					-								ur Rus
(Laborat	Ъ																		-		-	'ys*			tay inc
		У)	·						100												-	sDa	Ë		idard n
		OTHER (Specify)									+-										-	ines			ın stan
V 15	0	(Sp																				Bus			ess the
	Pag	臣														-					-	D in	۔ ایک		juest k
U	<u>R</u>	E	· · · · · · · · · · · · · · · · · · ·				-								-	-					_	ISTE	Specify:		und rec
	è		Herba 🗌	1 🗆 16	seq [	]  oV-II	meS	□ AOV	C) elete	PM-910			_							-	-	GUE	05		umaroi
	ġ				<del>61</del>				ther (Spe			-									_	ORE			F
	Date 10-6-15 Page	ľ		<u>/</u>	l Pol L	ld [	] 8-A		18-AOTI						_							TURNAROUND REQUESTED in Business Days*	10     5     3     2     1     8xm       Standard     Standard     Standard     Standard     Standard	<b>(</b> 0	
		ŀ			2808/				Pesticide										_		-	IARC	Anal	Analysis	
لعبارد																_					_	NRU.		S B B B B B B B B B B B B B B B B B B B	
es		ŀ	Semivolatile Organic Compounds by EPA 8270									+									-			б Г	
Chain Of Custody/ aboratory Analysis Request		ŀ				·															_		3 6	Hydrocarbon 3 1	
Ž Š		EDB \ EDC p\ EbY 8560 (aoli)																	_						
s lo		Volatile Organic Compounds by EPA 8260						1										-		22	A CO				
usi /si		리	Halogensted Volatiles by EPA 8260									·							-			Fuel			
al C	ļ		BTEX by EPA-8021									1					-								
Chain Of Custody/ atory Analysis Re										_	X	X	X	1.						-			:		
<u> </u>											X	X		5							10101	N. 0	·		
hato	VIVIVOIO												X	12		-			-		·	5.30			
D a	VIAV																				~	- ?			
q		T					5		TT	T												b l	76		
La							41-6			AB#		6	In	3	-0							and rule			
				r.			HOTM						]					-				ć	500		
9							_			Щ	0												20		
					95083	¢	3 2			TYPE	H1		din	E	1							~	2		
					200	9	2	Ce			0	00	0	0	0							ţ	NX		
_	-	3			26		543	N N		TIME	13:00	06:21	12:00	02:11	0011							V	D'		
Com	-	5		-			£1	20														:(e)			
<b>ALS Environmental</b> 8620 Holly Drive, Suite 100 Everett, WA 98208 Phone (425) 356-2600 Fax (425) 356-2600 Fax http://www.alsglobal.com	1 man 1	2		5	WA	FAX:		na		DATE	10-6-61	11										ime):			
Suite 8 2600 2626 v.alsç	1	2	×	20	2		E-MAIL:	김가	-	DA	-01		11	11	lands.								A Cont		
<b>ALS Environmental</b> 8620 Holly Drive, S Everett, WA 98208 Phone (425) 356-2 Fax (425) 356-2 Fax http://www.	1	5	(-	义	0	E				-													8 B		
<b>ALS Environmental</b> 8620 Holly Drive, Everett, WA 9820 Phone (425) 356 Fax (425) 356 Fax http://ww	22		50	Box	R.	2	F														a -	mped	R		
S Envi 20 H erett, one	17				J	è		2 P		<u>d</u>						2					SN	°,	-1		
P F 86	IANE		54	S	LIULIAND	459-577		COLOH		SAMPLE I.D	4	5	9	1	<u> </u>						CTIO	lame		5	
Ŋ				Li	Z	200	•			AM	1	Z	Ň	N	5						TRU	i ک در ک		ed By	
		37 70	GER:	SS:	L		СT Ч	NNY:	SS:		-MW	MW-5	MIN	121	A						L INS	URE	ved E	quish.	
	PBO IECT ID.	REPORT TO	COMPANY: PROJECT MANAGER:	ADDRESS:		PHONE	P.O. #	COMPANY: ATTENTION:	ADDRESS:												SPECIAL INSTRUCTIONS	SIGNATURES (Name, Company) Da	Received By:	Relinquished By: Received By:	
-		1-2				<u> </u>	-15		<		T	N.	က်	4	22	<u>ن</u>	~	တ်	ര്	9	ц.	, Sí	- <u></u>	ୟ <u>ୟ</u>	

......