

March 3, 2017

Mr. Panjini Balaraju Toxics Cleanup Program Washington State Department of Ecology, SWRO PO Box 47775 Olympia, WA 98504-7775

Subject: Mizukami/GENSCO Project, 4502 20<sup>th</sup> Street East, Fife, Washington Cleanup Site Id No. 3247 - Opinion Letter Request

Dear Mr. Balaraju:

Robinson Noble is pleased to submit this letter report documenting the third groundwater monitoring event required by environmental covenant following a no-further-action (NFA) determination at the Mizukami project site. It is located at 4502 20<sup>th</sup> Street East in Fife, Pierce County, Washington. The site is bordered by 20th Street to the north and Frank Albert Road to the east. Across Frank Albert Road is a commercial business park. Adjacent to the subject site on the south and west is property under the same ownership (CMKM, LLC) as the subject site. Pierce County Assessor-Treasurer records indicate the subject property as tax parcel number 0320126023.

The site is developed as a commercial warehouse. The current owner, CMKM, LLC, purchased the (then) residential property in July 2003. At that time, a heating-oil underground storage tank (UST) was excavated for removal. An aboveground heating-oil storage tank was in close proximity to this excavation. Fuel-oil service lines associated with this aboveground tank failed during the winter of 2003 and resulted in a leakage of over 150 gallons of diesel fuel into the subsurface. The impacted soil was excavated and removed for disposal off site. A small area of impacted soil was not excavated due to its location in a sensitive utility right-of-way adjacent to the subject property. See the attached Figure 1 for the location of the area of impacted soil.

Previous efforts established that groundwater concentrations of diesel and diesel-range organics do not exceed MTCA Method A groundwater levels. However, some soil contamination to remains underneath the sidewalk and utility right-of-ways. Implementation of institutional controls selected as the most appropriate closure mechanism for this residual soil impact. These controls are specified in the environmental covenant, which includes a long-term monitoring program under which the event documented herein was conducted.

The Geological Map of the Puyallup 7.5 Minute Quadrangle, Washington (Troost, in review) maps the subject as being Quaternary alluvium (Qal). This alluvium is composed of over-bank deposits associated with the Puyallup River, consisting of generally fine to very fine sand, silts, and clay. The United States Department of Agriculture Soil Survey for the Pierce County (1977) classifies the soils in the area of the subject as Puyallup fine sandy loam. Previous site activities found groundwater occurring within the alluvial sediments at a depth of approximately six to seven feet below ground surface.

According to the aforementioned long-term groundwater monitoring plan, the six existing monitoring wells are to be sampled at 18-month intervals for a minimum of five years. The second of these monitoring events was originally scheduled for sampling in September 2014, however, due to scheduling conflicts the field effort for this second event was completed on January 20, 2015. Consequently, the third event, the subject of this letter, occurred in November 2016.

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The following table shows the originally anticipated month and year of the sampling events.

Table 1. Proposed and Revised Sampling Dates, First Five-year Interval

Event*	Original Date	Revised Date
1	March 2013	April 2013
2	September 2014	January 2015
3	March 2016	November 2016

<sup>\*</sup>To reoccur on an 18-month interval, unless Ecology approves a change in frequency

Upon arrival to the site and prior to sampling for the November 2016 event, water levels were sounded and the wells opened and allowed to stabilize. Monitoring well MW-3 was inaccessible due to the presence of water filling the vault containing the well. Water levels from the five accessible wells in the monitoring program were used to calculate the groundwater gradient. Our review of the data indicates that flow direction and gradient remains consistent with historical patterns.

Table 2. November 14th 2016 Water Levels (in feet)

Well No.	Top of Casing Elevation*	Depth to Groundwater	Groundwater Elevation*
MW-1	95.36	3.30	92.06
MW-2	100.26	7.66	92.60
MW-3	93.01	not measured	not measured
MW-4B	94.81	2.58	92.23
MW-6	98.07	5.80	92.27
MW-7	99.19	6.57	92.62

<sup>\*</sup> Elevations are relative to an arbitrary site benchmark of 100 feet

A bladder pump and dedicated tubing were used to sample each accessible well. Samples were collected after at least three volumes of water were purged from the wells and field measurements of temperature, conductivity, total dissolved solids, and dissolved oxygen had stabilized (within measurement error limits). The groundwater monitoring field sampling notes are attached.

We placed the collected water samples into laboratory-supplied, pre-cleaned and properly preserved containers. The samples were transferred in a laboratory-supplied, thick-walled cooler containing Blue Ice® and delivered to Libby Environmental, Inc. of Olympia, Washington. The samples were analyzed using Ecology Method NWTPH-Dx/Dx Extended and EPA Method 8021B for the following contaminants of concern (Table 3).

Table 3. Contaminants of Concern and Cleanup Levels

Analyte	MTCA Method A (ug/l) Cleanup Levels
Diesel	500
Oil	500
Benzene	5
Toluene	1,000
Ethylbenzene	700
Xylenes	1,000

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Laboratory analytical results did not indicate the presence of contaminants of concern above laboratory detection limits. The laboratory analytical reports are attached.

We reviewed project documentation including sample logs, custody forms, and field logs prior to samples being delivered to the laboratory. No omissions or deficiencies were noted. Additionally, we reviewed laboratory provided quality assurance/quality control (QA/QC) data. Based on the QA/QC data provided by the laboratory, the data were within acceptable limits. No qualifications or flags were noted.

The analytical data generated for this event show that groundwater remains unimpacted by residual soil contamination believed to remain with the utility corridor adjacent to the subject. This demonstrates the continuing protectiveness of the environmental covenant and the institutional controls therein imposed.

At this time, we respectfully request that Ecology complete a periodic review of the site and allow the cessation of long-term groundwater monitoring activities including the decommissioning of the existing monitoring well network. During the history of groundwater monitoring at the site, contaminant concentrations have not exceeded MTCA Method A Cleanup Limits and no contaminants of concern have exceeded laboratory reporting limits since June of 2011. A summary table of the groundwater monitoring data at this site is attached.

Additionally, based on our review of Ecology's Model Remedies suggests that this site is eligible for closure using Model Remedy No. 2, that we cannot fully achieve compliance with the Method A direct contact cleanup level, but we have demonstrated through groundwater monitoring that Method A groundwater cleanup levels are met throughout the site.

Our client understands that the environmental covenant will remain in place until such time as the Method A direct contact levels are met.

This completes our report of long-term groundwater monitoring activities and our request for termination of long-term groundwater monitoring. If you have any questions during your review of the file and preparation of your comments, please do not hesitate to contact me at your convenience at (253) 475-7711.

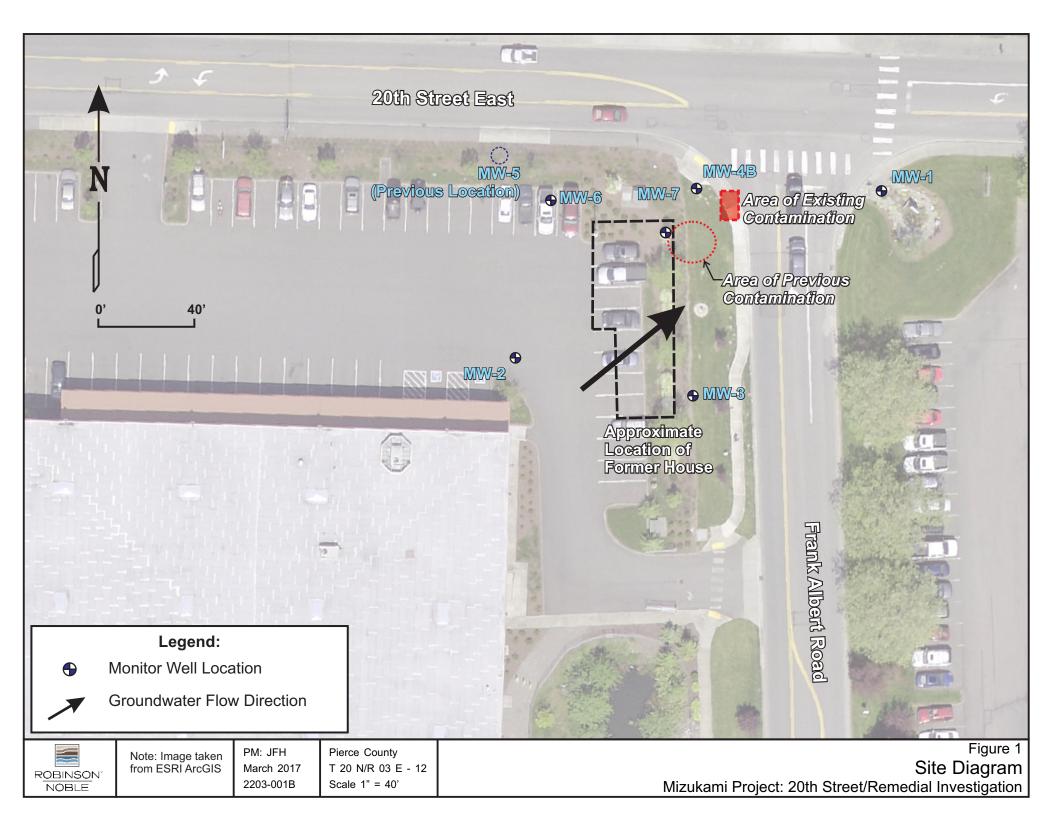
Respectfully submitted, Robinson Noble, Inc.

John F. Hildenbrand

Environmental Services Manager

cc: Tom Langseth Gensco Laura Fox

Attachments





### Gensco/Mizukami Historical Groundwater Quality Data Summary

Well ID and Date	Gasoline	Diesel	Mineral Oil	Oil	Benzene	Toluene	Ethyl benzene	Xylenes	EDB*	EDC*	Napthalene	МТВЕ	Benz(a) anthra- cene	Chrysene	Benzo(b) fluoran- thene	Benzo(K) fluoran- thene	Benzo(a) pyrene	Ideno(1,2,3-cd) pyrene	Dibenz(a,h) anthracene	Benzo(ghi) perylene
MW1	•	l.								<u>u                                      </u>		l l				•	•		•	
11/16/05	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd	_	_	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/12/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/30/11	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/14/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
9/16/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW2										, ,		, ,		_		1	_	T	_	
11/16/05	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/12/08	nd	nd	nd .	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/30/11	nd	nd	<u>nd</u>	nd	nd	nd	nd	nd	<del></del>		<u>nd</u>	nd	<u>nd</u>	nd	nd	nd	nd	nd	nd	nd
6/14/11	nd	nd	<u>nd</u>	nd	nd	nd	nd	nd	nd	nd	<u>nd</u>	nd	<u>nd</u>	nd	nd	nd	nd	nd	nd	nd
9/16/11 <b>MW3</b>	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/16/05	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd			2µg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/12/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/30/11	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/14/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
9/16/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW4/MW4	B ( <b>MW</b> -4) v	was dam	aged and rep	olaced	by MW-4B	in March 2	011													
11/16/05	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08 6/12/08	Well MW-4	was dry	in March, 200	8. Duri	ing the June	2008 mon	itoring ever	nt it was d	liscovere	ed that t	he well was bi	roken an	d it was not s	sampled.						
3/30/11	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/14/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
9/16/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	N-5 was rel		nd replaced l																	
11/16/05	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/12/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/30/11	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/14/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
9/16/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW7																				
11/14/07	nd	nd	nd	nd	nd	nd	nd	nd			3μg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/6/08	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/12/08	nd	nd	nd	nd	nd	nd	nd	nd	-	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3/30/11	550µg/L	nd	nd	nd	nd	nd	nd	9.1µg/L	-		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
6/14/11	170μg/L	nd	nd	nd	nd	nd	nd	4.5µg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
9/16/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4/2/13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	Additional No	tes: * FF	OB and FDC	were added t	n the target co	mnound list in	June 2011 at	the request of Ed	cology † Denot	es value for
1/20/15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd								detection limits bu		
11/15/2016	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	S TVICIT G	5550110		_, _ <b></b>	Johnpound		o.a.o.y	E STOCKION MINICO DE		



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 21, 2016

John Hildenbrand Robinson Noble 2105 South C Street Tacoma, WA 98402

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Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Gensco Project located in Fife, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt

Senior Chemist

Libby Environmental, Inc.

# Libby Environmental, Inc.

GENSCO PROJECT Robinson Noble Fife, Washington Libby Project # L161115-4 Client Project # 2203-001C 4139 Libby Road NE Olympia, WA 98506 Phone: (360) 352-2110 FAX: (360) 352-4154 Email: libbyenv@aol.com

#### Analyses of BTEX by EPA Method 8260C in Water

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Surrogate
Number	Analyzed	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Recovery (%)
Method Blank	11/16/16	nd	nd	nd	nd	110
LCS	11/16/16	85%	100%			110
MW-1	11/16/16	nd	nd	nd	nd	110
MW-2	11/16/16	nd	nd	nd	nd	110
MW-4B	11/16/16	nd	nd	nd	nd	110
MW-6	11/16/16	nd	nd	nd	nd	109
MW-7	11/16/16	nd	nd	nd	nd	110
MW-7 Dup	11/16/16	nd	nd	nd	nd	110
MW-7 MS	11/16/16	90%	106%			110
MW-7 MSD	11/16/16	93%	110%			109
Practical Quantitation Limit		1	2	1	3	

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

<sup>&</sup>quot;int" Indicates that interference prevents determination.

# Libby Environmental, Inc.

GENSCO PROJECT

Robinson Noble

Fife, Washington

Libby Project # L161115-4

Client Project # 2203-001C

4139 Libby Road NE Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

### Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample	Date	Surrogate	Diesel	Oil
Number	Analyzed	Recovery (%)	(μg/l)	(μg/l)
Method Blank	11/16/16	110	nd	nd
MW-1	11/16/16	92	nd	nd
MW-2	11/16/16	122	nd	nd
MW-4B	11/16/16	93	nd	nd
MW-6	11/16/16	125	nd	nd
MW-7	11/16/16	124	nd	nd
MW-7 Dup	11/16/16	124	nd	nd
Practical Quantitation Limit			200	400

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kodey Eley

<sup>&</sup>quot;int" Indicates that interference prevents determination.

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								13:25		3 MW-45
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of	Page:		5/16	Date: 11/15			2110 4154	Ph: 360-352-2110 Fax: 360-352-4154	Ph: Fax	0lympia, WA 98506
www.LibbyEnvironmental.com	-	d	y Record	Chain of Custody R	hain o	0			ental	Libby Environmental,

Robinson Noble, Inc. 2105 South C Street Tacoma, Washington 98402 (253) 475-7711



Project Name:	Gensco			
Project Number:	2203-001C	Project fie	eld book no.:	_
Well Name:	MW -1	Date:	11/14/2016	_

#### Physical Setting

Depth to water (ft)	3.30	Time collected:	11:08 11/14/16
Total well depth (ft)	9.58	Collected by:	NRG
Screened interval (ft)	5-10	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments:	Grey, oil sheen
Pump setting:		Notes/Comments:	2.37, 3.1 3113311

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
11:43	0			S	TART PUR	GE			
11:46	თ	0.2	17.77	0.371	0.241	0.77	5.99	49	105
11:49	6	0.5	15.76	0.373	0.243	0.61	5.71	34	55.6
11:52	9	0.8	15.71	0.373	0.243	0.56	5.62	25	42.8
11:55	12	1.0	15.71	0.372	0.242	0.52	5.55	18	43.8
11:58	15	1.2	15.75	0.374	0.243	0.48	5.53	9	47.6
12:01	18	1.4	15.75	0.377	0.245	0.46	5.51	3	49.8
12:04	21	1.6	15.81	0.379	0.246	0.43	5.50	-4	47.6
12:07	24	1.8	15.84	0.380	0.247	0.41	5.52	-12	44.3
12:10	27			SA	AMPLE TII	ME	·		

Time sampled:	12:10	Containers filled:	1 Amber, 3 VOAs
t (min) sampled:	2	Sampled by:	NRG
Analysis performed:	BTEX 8021 and NWTPH-DX/DX	Laboratory name:	Libby Environmental
Date of delivery:	11/15/2016	Date of analysis:	

Robinson Noble, Inc. 2105 South C Street Tacoma, Washington 98402 (253) 475-7711



Project Name:	Gensco			
Project Number:	2203-001C	Project fie	eld book no.:	
Well Name:	MW -2	Date:	11/14/2016	

#### Physical Setting

Depth to water (ft)	7.54	Time collected:	11:15 11/14/16
Total well depth (ft)	19.88	Collected by:	NRG
Screened interval (ft)	9-19	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments	Dark grey, silty, oil
Pump setting:		Notes/Comments:	sheen

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
16:22	0			START PURGE					
16:25	თ	0.1	15.85	0.594	0.381	0.47	6.47	-64	0.0
16:28	6	0.2	15.99	0.611	0.392	0.38	6.50	-67	990
16:31	9	0.4	16.12	0.634	0.407	0.34	6.52	-69	436
16:34	12	0.7	16.44	0.654	0.419	0.45	6.53	-71	222
16:37	15	0.9	16.55	0.671	0.430	0.36	6.54	-73	144
16:40	18	1.1	16.63	0.683	0.437	0.33	6.54	-74	105
16:43	21	1.2	16.65	0.694	0.445	0.34	6.55	-77	66.3
16:46	24	1.5	16.73	0.704	0.452	0.36	6.56	-79	45.3
16:49	27	2.0	16.71	0.716	0.459	0.33	6.57	-81	35.1
16:50	28			SAMPLE TIME					

Time sampled:	16:50	Containers filled:	1 Amber, 3 VOAs
t (min) sampled:	28	Sampled by:	NRG
Analysis performed:	BTEX 8021 and NWTPH-DX/DX	Laboratory name:	Libby Environmental
Date of delivery:	11/15/2016	Date of analysis:	

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Project Name:	Gensco		
Project Number:	2203-001C	Project field book no.:	
Well Name:	MW -3	Date:	11/14/2016

#### Physical Setting

Depth to water (ft)	NA	Time collected:	NA
Total well depth (ft)	9.85	Collected by:	NRG
Screened interval (ft)	NA	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments:	
Pump setting:		ivoles/Comments:	

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
				DID NOT SAMPLE					

Time sampled:	NA	Containers filled:	NA
t (min) sampled:	NA	Sampled by:	NRG
Analysis performed:	NA	Laboratory name:	Libby Environmental
Date of delivery:	NA	Date of analysis:	

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Project Name:	Gensco			
Project Number:	2203-001C	Project fie	eld book no.:	
Well Name:	MW -4B	Date:	11/14/2016	

#### Physical Setting

Depth to water (ft)	2.58	Time collected:	11:09 11/14/16
Total well depth (ft)	10.05	Collected by:	NRG
Screened interval (ft)	5-10	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments:	Yellow, oil sheen
Pump setting:		Notes/Comments:	. 55, 511 6116 611

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
12:55	0			S	TART PUR	GE			
12:58	3	0.2	18.60	0.558	0.359	0.41	5.95	10	28.8
13:01	6	0.4	18.18	0.611	0.392	0.44	6.01	-16	23.2
13:04	9	0.5	18.05	0.624	0.401	0.51	6.05	-27	22.3
13:07	12	0.8	17.89	0.639	0.409	0.59	6.11	-40	18.4
13:10	15	1.0	17.75	0.650	0.416	0.63	6.16	-53	15.0
13:13	18	1.0	17.15	0.667	0.427	0.70	6.20	-62	16.8
13:15	21	1.2	17.33	0.663	0.424	0.65	6.24	-69	11.7
13:18	24	1.4	17.40	0.661	0.423	0.65	6.28	-77	9.6
13:21	27	2.0	17.34	0.660	0.422	0.64	6.30	-83	8.6
13:24	30	2.2	17.28	0.658	0.421	0.66	6.32	-87	6.1
13:25	31			SAMPLE TIME					

Time sampled:	13:25	Containers filled:	1 Amber, 3 VOAs
t (min) sampled:	31	Sampled by:	NRG
Analysis performed:	BTEX 8021 and NWTPH-DX/DX	Laboratory name:	Libby Environmental

Date of delivery: 11/15/2016 Date of analysis:
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Robinson Noble, Inc. 2105 South C Street Tacoma, Washington 98402 (253) 475-7711



Project Name:	Gensco			
Project Number:	2203-001C	Project fie	eld book no.:	
Well Name:	MW -6	Date:	11/14/2016	

#### Physical Setting

Depth to water (ft)	5.80	Time collected:	11:14 11/14/16
Total well depth (ft)	19.02	Collected by:	NRG
Screened interval (ft)	9-19	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments:	Grev
Pump setting:		Notes/Comments:	2.07

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
15:20	0			S	TART PUR	GE			
15:23	3	0.1	15.44	0.489	0.318	0.50	6.22	-41	933
15:26	6	0.2	15.46	0.499	0.324	0.37	6.26	-46	555
15:29	9	0.6	15.73	0.507	0.325	0.44	6.27	-48	746
15:32	12	1.1	15.82	0.510	0.326	0.32	6.27	-51	540
15:35	15	1.2	15.81	0.511	0.327	0.37	6.27	-54	360
15:38	18	1.5	15.73	0.512	0.328	0.39	6.28	-58	460
15:41	21	1.7	15.71	0.514	0.329	0.42	6.28	-61	435
15:44	24	1.9	15.69	0.516	0.330	0.26	6.28	-64	410
15:47	27	2.1	15.66	0.517	0.331	0.26	6.28	-67	381
15:50	30	2.3	15.63	0.518	0.332	0.24	6.29	-69	342
15:55	35			SA	AMPLE TI	ME			

Time sampled:	15:55	Containers filled:	1 Amber, 3 VOAs
t (min) sampled:	35	Sampled by:	NRG
Analysis performed:	BTEX 8021 and NWTPH-DX/DX	Laboratory name:	Libby Environmental

Date of delivery: 11/15/2016 Date of analysis:
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Robinson Noble, Inc. 2105 South C Street Tacoma, Washington 98402 (253) 475-7711



Project Name:	Gensco			
Project Number:	2203-001C	Project fie	eld book no.:	
Well Name:	MW -7	Date:	11/14/2016	

#### Physical Setting

Depth to water (ft)	6.57	Time collected:	11:12 11/14/16
Total well depth (ft)	19.03	Collected by:	NRG
Screened interval (ft)	9-19	Weather:	Overcast
Pumping method:	Bladder Pump	Notes/Comments:	Dark Grey, oil sheen
Pump setting:		Notes/Comments:	24 2.377 011 0110011

#### Water Quality Results

Time	time (min)	Vol- ume (gal)	Temp (°C)	Specific Conduc- tivity (ms/cm /°C)	Total Dis- solved Solids (g/L)	Dis- solved Oxygen (mg/L)	рН	Oxidation Reduc- tion Potential (mV)	Turbidity (NTU)
14:00	0			S	TART PUR	GE			
14:03	3	0.2	16.40	0.550	0.352	0.47	6.09	-42	800
14:06	6	0.4	15.45	0.579	0.370	0.36	6.11	-46	0.0
14:09	9	0.8	15.33	0.551	0.352	0.29	6.12	-51	799
14:12	12	0.9	15.28	0.539	0.344	0.29	6.12	-53	1000
14:15	15	1.1	15.25	0.525	0.336	0.29	6.12	-57	770
14:18	18	1.3	15.22	0.516	0.330	0.31	6.13	-62	656
14:21	21	1.5	15.20	0.509	0.325	0.30	6.13	-66	564
14:24	24	1.6	15.17	0.503	0.322	0.29	6.16	-72	441
14:27	27	1.8	15.17	0.501	0.321	0.29	6.16	-73	352
14:30	30	2.0	15.14	0.499	0.324	0.29	6.17	-77	276
14:35	35			SA	AMPLE TII	ME	•		

Time sampled:	14:35	Containers filled:	1 Amber, 3 VOAs
t (min) sampled:	35	Sampled by:	NRG
Analysis performed:	BTEX 8021 and NWTPH-DX/DX	Laboratory name:	Libby Environmental

Date of delivery: 11/15/2016 Date of analysis:
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