

# REPORT FOR LEAD TESTING IN DRINKING WATER

for

## WHITMAN COLLEGE RENTAL PROPERTIES

Walla Walla, WA 99362

Project #E2016/0808

September 8, 2016

prepared for:

Whitman College Attn: Fred Miller 345 Boyer Ave. Walla Walla, WA 99362

prepared by:

Blue Mountain Environmental & Consulting Co., Inc. PO Box 545/125 Main Street Waitsburg, WA 99361 (509) 520-6519

## **PROJECT SUMMARY**

Client:	Whitman College 345 Boyer Ave. Walla Walla, WA 99362
Point of Contact:	Mr. Fred Miller
Property:	Whitman College Rental Properties Walla Walla, Washington
Major Commercial Activity:	University campus
Environmental Professional:	Yancy Meyer, BMEC, Inc.
Project Number:	E2016/0808
Report Date:	September 8, 2016

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## 1.0 INTRODUCTION

Whitman College retained Blue Mountain Environmental & Consulting Company, Inc. (BMEC) to perform an investigation for the presence of lead in drinking water in all of the Whitman College Rental Properties located in Walla Walla, Washington. Yancy Meyer, Environmental Professional with BMEC, assisted by Caris Lynch of BMEC, performed the water sampling on July 19<sup>th</sup> and 20<sup>th</sup>, and August 1<sup>st</sup>, 2016.

At the request of Whitman College, 1-2 water samples were taken from each building from kitchen and bathroom sinks. Samples were taken according to EPA protocols, allowing the sink/fountain to run for at least 30 seconds prior to sampling mid-stream with sterile containers using nitrile gloves.

Sampling results indicate two of the sinks sampled had total lead levels above the EPA action level of 15 parts per billion (ppb). All of the other samples were either non-detect or below the 15 ppb action level. The treatment technique regulation for lead (referred to as the Lead and Copper Rule) requires water systems to control the corrosivity of the water; however, as most of the samples were low or non-detect, it is the opinion of BMEC that corrosivity is not the issue, and that a filter system to remove the lead at the sinks would be appropriate treatment.

## 1.1 BACKGROUND

In 1974, Congress passed the Safe Drinking Water Act. This law requires EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur with an adequate margin of safety. These non-enforceable health goals, based solely on possible health risks are called maximum contaminant level goals (MCLGs). The MCLG for lead is zero. EPA has set this level based on the best available science which shows there is no safe level of exposure to lead.

For most contaminants, EPA sets an enforceable regulation called a maximum contaminant level, (MCL) the highest level of a contaminant that EPA allows in drinking water. MCLs ensure that drinking water does not pose either a short-term or long-term health risk. EPA sets MCLs at levels that are economically and technologically feasible. However, because lead contamination of drinking water often results from corrosion of the plumbing materials belonging to water system customers, EPA established a treatment technique rather than an MCL for lead. A treatment technique is an enforceable procedure or level of technological performance which water systems must follow to ensure control of a contaminant.

The treatment technique regulation for lead (referred to as the Lead and Copper Rule) requires water systems to control the corrosivity of the water. The regulation also requires systems to collect tap samples from sites served by the system that are more likely to have plumbing materials containing lead. If more than 10 percent of tap water samples exceed the lead action level of 15 parts per billion, then water systems are required to take additional actions including:

•Taking further steps optimize their corrosion control treatment (for water systems serving 50,000 people that have not fully optimized their corrosion control).

•Educating the public about lead in drinking water and actions consumers can take to reduce their exposure to lead.

•Replacing the portions of lead service lines (lines that connect distribution mains to customers) under the water system's control.

EPA issued the Lead and Copper Rule in 1991 and revised the regulation in 2000 and 2007. States may set more stringent drinking water regulations than EPA; however, Washington State protocols are the same as the national protocols.

## 2.0 SCOPE OF SERVICES

**LEAD IN DRINKING WATER:** Title XIV of The Public Health Service Act: Safety of Public Water Systems (Safe Drinking Water Act) regulates the maximum level of lead considered to be safe for drinking water at 15 ppb. The scope of service included sampling of drinking water in the campus buildings, interest houses, and the Mill Creek cabins, and analysis of the samples by an accredited laboratory. Analysis of the results to recommend corrective action if needed.

## 3.0 SUMMARY OF REGULATIONS

# 3.1. TITLE XIV OF THE PUBLIC HEALTH SERVICE ACT SAFETY OF PUBLIC WATER SYSTEMS (SAFE DRINKING WATER ACT)

The NATIONAL DRINKING WATER REGULATIONS SEC. 1412 regulates contaminants in drinking water, and has set a 15 ppb maximum level for lead. Any lead contamination above that level must be addressed by treatment.

## 4.0 SAMPLING METHODOLOGY

Blue Mountain Environmental & Consulting sampled drinking water according to EPA protocols, allowing the sink/fountain to run for at least 30 seconds prior to sampling midstream with sterile containers using nitrile gloves. The samples were then submitted with chain of custody documentation to On-Site Laboratory for analysis of total lead content.

## 5.0 LABORATORY INFORMATION

Samples were analyzed by On-Site Laboratory in Redmond, Washington by EPA Method 200.8. OnSite Environmental, Inc. performs a wide variety of analytical methods under various regulatory programs using published and internally developed validated test methods. The laboratory participates in semi-annual single-blind performance evaluations studies as part of on-going certification/accreditation with the Washington Department of Ecology (WDOE) and Alaska Department of Environmental Conservation (ADEC).

### 6.0 **RESULTS**

The following sample results were over the EPA action level of 15 ppb:

Sample Number	Location			
8-22-71	622 E Main Unit 1 bathroom	47 ppb		
8-22-52	602 E Main Room 310 Bath	43 ppb		

The following sample results were at or above the detection limit of 1.0 ppb and under the EPA action level of 15 ppb:

Sample Number	Location	Result
8-22-09	108 Shady Rill Kitchen	2.3 ppb
8-22-10	108 Shady Rill Bath	4.6 ppb
8-22-13	14 Merriam Kitchen	1.5 ppb
8-22-14	14 Merriam Bath	1.0 ppb
8-22-21	131 Otis Kitchen	11 ppb
8-22-22	131 Otis Bath	1.4 ppb
8-22-23	357 Linden Kitchen	5.3 ppb
8-22-24	357 Linden Bath	2.9 ppb
8-22-25	9 Boyer utility sink	2.9 ppb
8-22-26	9 Boyer Bathroom	1.1 ppb
8-22-29	15 Boyer Bath	5.9 ppb
8-22-31	25 Boyer Bath	1.0 ppb
8-22-33	606 E Main Bath	1.0 ppb
8-22-35	602 E Main Room 2 Kitchen	1.0 ppb
8-22-48	602 E Main Room 207 Bath	1.1 ppb
8-22-55	602 E Main Room 311 Kitchen	1.6 ppb
8-22-57	363 Linden Kitchen	1.5 ppb
8-22-59	610 E Main Kitchen	1.2 ppb
8-22-61	612 E Main Kitchen	1.8 ppb
8-22-62	612 E Main Bath	1.6 ppb
8-23-63	622 E Main Unit 4 Kitchen	1.6 ppb
8-23-64	622 E Main Unit 4 Bath	2.9 ppb
8-25-66	622 E Main Unit 3 Kitchen	1.0 ppb
8-22-67	622 E Main Unit 3 Bath	2.1 ppb
8-22-70	622 E Main Unit 1 Kitchen	2.6 ppb
8-23-81	720 N Main St Unit 3 Bath	1.0 ppb
8-23-83	720 N Main Unit 4 Bath	1.2 ppb
8-23-84	718 N Main Kitchen	1.5 ppb
8-23-85	718 N Main Bath	1.1 ppb
8-23-86	714 N Main Kitchen	2.4 ppb
8-23-87	714 N Main Bath	1.1 ppb
8-23-88	714.5 N Main Kitchen	2.2 ppb
8-23-89	714.5 N Main Bath	1.6 ppb
8-23-96	707 Issacs Kitchen	1.7 ppb
8-23-97	707 Issacs Bath	1.0 ppb
8-23-99	713 Issacs Bath	2.0 ppb

8-23-103	721 Penrose Bath	2.3 ppb
8-23-107	112 Shady Rill Kitchen	1.6 ppb
8-23-108	112 Shady Rill Bath	1.3 ppb
8-23-110	220 Marcus Main bathroom	1.2 ppb
8-23-111	220 Marcus A Kitchen	1.4 ppb
8-23-116	219 Marcus Bathroom	2.1 ppb
8-23-133	356 University main floor Bath	1.0 ppb
8-23-134	721 Valencia Kitchen	1.2 ppb
8-23-135	721 Valencia Bath	1.0 ppb

Sample	Location
Number 8-22-01	709 N Main Kitchen
8-22-02	709 N Main Bath
8-22-03	710 N Main Kitchen
8-22-04	710 N Main 1 <sup>st</sup> Floor Bath
8-22-05	713 Penrose Kitchen
8-22-06	713 Penrose Bath
8-22-07	209 Marcus Kitchen
8-22-08	209 Marcus Bath
8-22-11	20 Merriam Kitchen
8-22-12	20 Merriam Bath
8-22-15	416 Cypress Kitchen
8-22-16	416 Cypress Bath
8-22-17	407 Cypress Kitchen
8-22-18	407 Cypress Bath
8-22-19	122 Otis Kitchen
8-22-20	122 Otis Bath
8-22-27	17 Boyer Kitchen
8-22-28	17 Boyer Bath
8-22-30	25 Boyer Kitchen
8-22-32	606 E Main Kitchen
8-22-34	602 E Main Room 6 laundry
8-22-36	602 E Main Room 2 Bath
8-22-37	602 E Main Room 1
8-22-38	602 E Main Room 105 Bath
8-22-39	602 E Main Room 103 Kitchen
8-22-40	602 E Main Room 103 Bath
8-22-41	602 E Main Room 104 Kitchen
8-22-42	602 E Main Room 104 Bath
8-22-43	602 E Main Room 208 Kitchen
8-22-44	602 E Main Room 208 Bath
8-22-45	602 E Main Room 206 Kitchen
8-22-46	602 E Main Room 206 Bath
8-22-47	602 E Main Room 207 Kitchen
8-22-49	602 E Main Room 309 Kitchen
8-22-50	602 E Main Room 309 Bath
8-22-51	602 E Main Room 310 Kitchen
8-22-53	602 E Main Room 312 Kitchen
8-22-54	602 E Main Room 312 Bath
8-22-56	602 E Main Room 311 Bath
8-22-58	363 Linden Bath
8-22-60	610 E Main Bath
8-22-68	622 E Main Unit 2 Kitchen
8-22-69	622 E Main Unit 2 Bath
8-22-72	172 Park Kitchen
8-22-73	172 Park main floor Bath
8-23-74	411 Cypress Kitchen
8-23-75	411 Cypress Bath
8-23-76	720 N Main Unit 2 Kitchen
8-23-77	720 N Main Unit 2 Bath

The following samples were below the detection limit of 1.0 ppb:

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8-23-78	720 N Main Unit 1 Kitchen
8-23-79	720 N Main Unit 1 Bath
8-23-80	720 N Main Unit 3 Kitchen
8-23-82	720 N Main Unit 4 Kitchen
8-23-90	708 N Main St Kitchen
8-23-91	`708 N Main St Bath
8-23-92	706 N Main Kitchen
8-23-93	706 N Main Bath
8-23-94	703 Issacs Kitchen
8-23-95	703 Issacs Bath
8-23-98	713 Issacs Kitchen
8-23-100	615 Issacs Kitchen
8-23-101	615 Issacs Bath
8-23-102	721 Penrose Kitchen
8-23-104	508 E Main Kitchen
8-23-105	508 E Main Bath
8-23-106	508 E Main Beauty Shop Back Room
8-23-109	220 Marcus Main unit Kitchen
8-23-112	220 Marcus Unit A Bath
8-23-113	220 Marcus Unit B Kitchen
8-23-114	220 Marcus Unit B Bath
8-23-115	219 Marcus Kitchen
8-23-117	232 Stanton Kitchen
8-23-118	232 Stanton Bath
8-23-119	222 Stanton Kitchen
8-23-120	222 Stanton Bath
8-23-121	216 Stanton Kitchen
8-23-122	216 Stanton Bath
8-23-123	222 Fulton Kitchen
8-23-124	222 Fulton Bath
8-23-125	116 Merriam Kitchen
8-23-126	116 Merriam Bath
8-23-128	171 Park Kitchen
8-23-129	171 Park Bath
8-23-132	356 University Kitchen
8-23-136	Spring Valley Ranch Kitchen
8-23-137	Spring Valley Ranch Bath

## 8.0 DISCUSSION & RECOMMENDATIONS

Sampling results indicate two of the sinks sampled had total lead levels above the EPA action level of 15 parts per billion (ppb). All of the other samples were either non-detect or below the 15 ppb action level. The treatment technique regulation for lead (referred to as the Lead and Copper Rule) requires water systems to control the corrosivity of the water; however, as most of the samples were low or non-detect, it is the opinion of BMEC that corrosivity is not the issue, and that a filter system to remove the lead at the sinks would be appropriate treatment.

## 9.0 AUTHENTICATION

Having followed sampling protocol and stringent QA/QC controls, the conclusions in this report are well-founded, professional opinions.

Report Written By:

Yancy Meyer Environmental Professional BMEC

**Report Reviewed By:** 

Star Wing

Steve Wing Environmental Professional BMEC

## **10.0 REPORT LIMITATIONS**

The enclosed site assessment has been performed for the exclusive use by Whitman College, or agents specified by them, for the transaction at issue concerning the subject properties in Walla Walla, Washington.

The purpose of an environmental investigation is to evaluate potential or actual effects of past or current practices on a given site. In performing an environmental investigation, a balance must be struck between reasonable inquiry into environmental issues and an exhaustive analysis of every conceivable issue of possible concern. This environmental assessment contains BMEC opinion regarding environmental issues of concern and/or additional issues that may need to be addressed. In rendering our professional opinion, BMEC warrants that the services provided within the scope of this assessment were performed, within the limits described, in accordance with generally accepted environmental consulting principles and practices. No other warranty, expressed or implied, is made. The following paragraphs describe the assumptions and standard parameters under which such opinion is rendered.

Any opinions and/or recommendations presented in this report apply to site conditions existing at the time of performance of services. BMEC is unable to report on or accurately predict events that may affect the site after performance of services, whether occurring naturally or caused by human forces. BMEC assumes no responsibility for conditions BMEC did not investigate, or conditions not generally recognized as environmentally unacceptable at the time services were performed.

Except where there is expressed concern of our client, or where specific environmental contaminants have previously been reported by others, naturally occurring toxic substances, or contaminant concentrations not of current environmental concern, may not be addressed in this document.

No assessment is thorough enough to exclude the presence of hazardous materials at a given site. Therefore, if specific hazardous materials have not been identified during this assessment, the lack of such identifications should not be construed as a guarantee of the absence of hazardous materials, but merely as the result of services performed within the scope, limitations, and cost of work done.

BMEC is not responsible for the effects of changes in applicable environmental standards, practices, or regulations after the performance of services. Services provided for this assessment were performed in accordance with BMEC's agreement and understanding with our client, which may not be fully disclosed in this report. Opinions and/or recommendations are intended for the client, purpose, site, location, time frame, and project parameters indicated.

This report was prepared solely for the use of our client, and should be reviewed in its entirety; BMEC is not responsible for subsequent separation, detachment, or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.

Appendix A Laboratory Reports



September 1, 2016

Yancy Meyer Blue Mountain Environmental, Inc. 90 Baldwin Road Walla Walla, WA 99362

Re: Analytical Data for Project E2016/0808; Whitman Rental Props Laboratory Reference No. 1608-308

Dear Yancy:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



#### **Case Narrative**

Samples were collected on August 22 and 23, 2016 and received by the laboratory on August 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Matrix: Units:	Water ug/L (ppb)					
Units.	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-308-01 <b>8-22-01</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-02					
Client ID:	8-22-02					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-03					
Client ID:	8-22-03					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-04					
Client ID:	8-22-04					
Lead	ND	1.0	200.8		8-26-16	
Lab ID: Client ID:	08-308-05 <b>8-22-05</b>					
Lead	ND	1.0	200.8		8-26-16	
Load		1.0	200.0		0 20 10	
Lab ID:	08-308-06					
Client ID:	8-22-06					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-07					
Client ID:	8-22-07		000.0		0.00.10	
Lead	ND	1.0	200.8		8-26-16	



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Matrix: Units:	Water ug/L (ppb)					
Units.	ug/r (hhn)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-308-08 <b>8-22-08</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID: <b>Client ID:</b>	08-308-09 <b>8-22-09</b>					
Lead	2.3	1.0	200.8		8-26-16	
Lab ID: <b>Client ID:</b>	08-308-10 <b>8-22-10</b>					
Lead	4.6	1.0	200.8		8-26-16	
Lab ID: Client ID:	08-308-11 <b>8-22-11</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID: <b>Client ID:</b>	08-308-12 <b>8-22-12</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID: Client ID:	08-308-13 <b>8-22-13</b>					
Lead	1.5	1.0	200.8		8-26-16	
Lab ID: Client ID:	08-308-14 <b>8-22-14</b>					
Lead	1.0	1.0	200.8		8-26-16	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-308-15					
Client ID:	8-22-15					
Lead	ND	1.0	200.8		8-26-16	
						ł
Lab ID:	08-308-16					ļ
Client ID:	8-22-16					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-17					ł
Client ID:	8-22-17					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-18					I
Client ID:	8-22-18					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-19					
Client ID:	8-22-19					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-20					
Client ID:	8-22-20					
Lead	ND	1.0	200.8		8-26-16	



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Water					
ug/L (ppb/			Date	Date	
Result	PQL	EPA Method	Prepared	Analyzed	Flags
08-308-21					
11	1.0	200.8		8-26-16	
08-308-22 <b>8-22-22</b>					
1.4	1.0	200.8		8-26-16	
08-308-23 <b>8-22-23</b>					
5.3	1.0	200.8		8-26-16	
08-308-24 <b>8-22-24</b>					
2.9	1.0	200.8		8-26-16	
08-308-25 <b>8-22-25</b>					
2.9	1.0	200.8		8-26-16	
08-308-26 <b>8-22-26</b>					
1.1	1.0	200.8		8-26-16	
08-308-27 <b>8-22-27</b>					
ND	1.0	200.8		8-26-16	
	ug/L (ppb)	Result     PQL       08-308-21     8-22-21       11     1.0       08-308-22     8-22-22       8-22-22     1.0       08-308-23     1.0       08-308-23     1.0       08-308-24     8-22-24       2.9     1.0       08-308-25     8-22-25       2.9     1.0       08-308-26     8-22-26       1.1     1.0       08-308-27     8-22-27	Nesult         PQL         EPA Method           08-308-21	ug/L (ppb)         Date           Result         PQL         EPA Method         Prepared           08-308-21	ug/L (ppb)         Date         Date         Date           Result         POL         EPA Method         Prepared         Analyzed           08-308-21         8-22-21         -

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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-308-28			<u> </u>		· U
Client ID:	8-22-28					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-29					ļ
Client ID:	8-22-29					
Lead	5.9	1.0	200.8		8-26-16	
Lab ID:	08-308-30					
Client ID:	8-22-30					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-31					
Client ID:	8-22-31					
Lead	1.0	1.0	200.8		8-26-16	
Lab ID:	08-308-32					
Client ID:	8-22-32					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-33					
Client ID:	8-22-33					
Lead	1.0	1.0	200.8		8-26-16	
Lab ID:	08-308-34					
Client ID:	8-22-34					
Lead	ND	1.0	200.8		8-26-16	_



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Water					
ug/L (ppb)			Date	Date	
Result	PQL	EPA Method	Prepared	Analyzed	Flags
08-308-35					
8-22-35					
1.0	1.0	200.8		8-26-16	
08-308-36 <b>8-22-36</b>					
ND	1.0	200.8		8-26-16	
08-308-37 <b>8-22-37</b>					
ND	1.0	200.8		8-26-16	
08-308-38 <b>8-22-38</b>					
ND	1.0	200.8		8-26-16	
08-308-39 <b>8-22-39</b>					
ND	1.0	200.8		8-26-16	
08-308-40 <b>8-22-40</b>					
ND	1.0	200.8		8-26-16	
	ug/L (ppb)	Result       PQL         08-308-35       8-22-35         1.0       1.0         08-308-36       8-22-36         ND       1.0         08-308-37       8-22-37         ND       1.0         08-308-37       8-22-37         08-308-38       1.0         08-308-38       9         8-22-38       1.0         08-308-39       1.0         08-308-39       8-22-39         ND       1.0         08-308-40       8-22-40	Result         PQL         EPA Method           08-308-35         8-22-35	ug/L (ppb)         Date           Result         PQL         EPA Method         Prepared           08-308-35         8-22-35         -         -           1.0         1.0         200.8         -         -           08-308-36         -         -         -         -         -           08-308-36         -	ug/L (ppb)         Date         Date           Result         PQL         EPA Method         Prepared         Analyzed           08-308-35         8-22-35



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Matrix: Units:	Water ug/L (ppb)					
0	~9, - (PP~)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-308-41 <b>8-22-41</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID: Client ID:	08-308-42 <b>8-22-42</b>					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-43					
Client ID:	8-22-43					
Lead	ND	1.0	200.8		8-26-16	
Lab ID:	08-308-44					
Client ID:	8-22-44	1.0			0.00.16	
Lead	ND	1.0	200.8		8-26-16	
Lab ID: <b>Client ID:</b>	08-308-45 <b>8-22-45</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-308-46					
Client ID:	8-22-46					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-308-47 <b>8-22-47</b>					
Lead	ND	1.0	200.8		8-27-16	



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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-308-48			<u> </u>		· U
Client ID:	8-22-48					
Lead	1.1	1.0	200.8		8-27-16	
Lab ID:	08-308-49					ļ
Client ID:	8-22-49					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-308-50					
Client ID:	8-22-50					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-308-51					
Client ID:	8-22-51					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-308-52					
Client ID:	8-22-52					
Lead	43	1.0	200.8		8-27-16	
Lab ID:	08-308-53					
Client ID:	8-22-53					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-308-54					
Client ID:	8-22-54					
Lead	ND	1.0	200.8		8-27-16	



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10

Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-308-55					
Client ID:	8-22-55					
Lead	1.6	1.0	200.8		8-27-16	
Lab ID:	08-308-56					
Client ID:	8-22-56					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-308-57 <b>8-22-57</b>					
Lead	1.5	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-308-58 <b>8-22-58</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-308-59 <b>8-22-59</b>					
Lead	1.2	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-308-60 <b>8-22-60</b>					
Lead	ND	1.0	200.8		8-27-16	



11

Matrix: Units:	Water ug/L (ppb)					
Office.				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-308-61					
Client ID:	8-22-61					
Lead	1.8	1.0	200.8		8-27-16	
Lab ID:	08-308-62					
Client ID:	8-23-62					
Lead	1.6	1.0	200.8		8-27-16	
Lab ID:	08-308-63					
Client ID:	8-23-63					
Lead	1.6	1.0	200.8		8-27-16	
Lab ID:	08-308-64					
Client ID:	8-23-64					
Lead	2.9	1.0	200.8		8-27-16	



#### DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-26-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0826DW2		
Analyte	Method	Result	PQL
Lead	200.8	ND	1.0



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#### DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-26-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0826DW3		
Analyte	Method	Result	PQL
Lead	200.8	ND	1.0



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#### DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-26-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0826DW4		
Analyte	Method	Result	PQL
Lead	200.8	ND	1.0



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#### DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0827DW1		
Analyte	Method	Result	
Lead	200.8	ND	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

1.0

#### DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed: 8-26-16
------------------------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-307-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	11.9	12.3	3	1.0	



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#### DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-26-16
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Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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#### DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed: 8-26-16
------------------------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-25

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	2.89	2.87	1	1.0	



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#### DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed: 8-27-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-45

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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#### DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-26-16
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Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-307-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	85.1	91	86.2	93	1	



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#### DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

8-26-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	75.4	94	76.8	96	2	



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#### DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-26-16
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Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-25

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	77.4	93	76.6	92	1	



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#### DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-308-45

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	70.6	88	74.0	92	5	



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# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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					8/25/16/03	8-23-16 18	Date Time											NWTF NWTF NWTF NWTF	PH-Dx ( es 826	D BTEX	1 / SG CI		)			Chain of Custody
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August 31, 2016

Yancy Meyer Blue Mountain Environmental, Inc. 90 Baldwin Road Walla Walla, WA 99362

Re: Analytical Data for Project E2016/0808; Whitman Rental Props Laboratory Reference No. 1608-346

Dear Yancy:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



# **Case Narrative**

Samples were collected on August 23 and 25, 2016 and received by the laboratory on August 26, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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Matrix:	Water					
Units:	ug/L (ppb)					
				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
						<b>/</b>
Lab ID:	08-346-70					ſ
Client ID:	8-23-127					
Lead	ND	1.0	200.8		8-27-16	
						_
Lab ID:	08-346-71					
Client ID:	8-23-130					ļ
Lead	3.0	1.0	200.8		8-27-16	
Lab ID:	08-346-72					
Client ID:	8-23-131					
Lead	7.2	1.0	200.8		8-27-16	



### DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16	
Matrix: Units:	Water ug/L (ppb)	
Lab ID:	MB0827DW2	
Analyte	Method	Result
Lead	200.8	ND



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

# DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-27-16
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Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-61

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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# DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
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Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-61

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	78.4	98	75.7	95	3	



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.Matrix: Units:	Water ug/L (ppb)					
	0 (11 /			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-346-01 <b>8-25-66</b>					
Lead	1.0	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-02 <b>8-22-67</b>					
Lead	2.1	1.0	200.8		8-27-16	
Lab ID: <u>Client ID:</u>	08-346-03 <b>8-22-68</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-04 <b>8-22-69</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-05 <b>8-22-70</b>					
Lead	2.6	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-06 <b>8-22-71</b>					
Lead	47	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-07 <b>8-22-72</b>					
Lead	ND	1.0	200.8		8-27-16	

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			-			
Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-08					
Client ID:	8-22-73					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-09					
Client ID:	08-346-09 <b>8-23-74</b>					
Lead	ND	1.0	200.8		8-27-16	
	22.242.40					
Lab ID: Client ID:	08-346-10 <b>8-23-75</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-11					
Client ID:	8-23-76					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-12					
Client ID:	8-23-77					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-13					
Client ID:	8-23-78					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-346-14 <b>8-23-79</b>					
Lead	ND	1.0	200.8		8-27-16	



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.Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-15			÷		
Client ID:	8-23-80					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-16					
Client ID:	8-23-81					
Lead	1.0	1.0	200.8		8-27-16	
Lab ID:	08-346-17					
Client ID:	08-346-17 <b>8-23-82</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-18					
Client ID:	8-23-83					
Lead	1.2	1.0	200.8		8-27-16	
Lab ID:	08-346-19					
Client ID:	<b>8-23-84</b>					
Lead	1.5	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-20 <b>8-23-85</b>					
Lead	1.1	1.0	200.8		8-27-16	



			-			
Matrix:	Water					
Units:	ug/L (ppb)			-		
				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-21					
Client ID:	08-346-21 <b>8-23-86</b>					
Lead	2.4	1.0	200.8		8-29-16	
· · · · <b>_</b>						
Lab ID:	08-346-22					
Client ID:	8-23-87					
Lead	1.1	1.0	200.8		8-29-16	
Lab ID:	08-346-23					
Client ID:	8-23-88					
Lead	2.2	1.0	200.8		8-29-16	
Lab ID:	08-346-24					
Client ID:	8-23-89					
Lead	1.8	1.0	200.8		8-29-16	
Lab ID:	08-346-25					
Client ID:	8-23-90					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-26					
Client ID:	8-23-91					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-27					
Client ID:	8-23-92					
Lead	ND	1.0	200.8		8-29-16	

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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-28			· ·		<u>`</u>
Client ID:	8-23-93					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-29					
Client ID:	8-23-94					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-30					
Client ID:	<b>8-23-95</b>					
Lead	ND	1.0	200.8		8-29-16	
Lab ID: Client ID:	08-346-31 <b>8-23-96</b>					
Lead	1.7	1.0	200.8		8-29-16	
Lab ID:	08-346-32					
Client ID:	8-23-97					
Lead	1.0	1.0	200.8		8-29-16	
Lab ID:	08-346-33					
Client ID:	8-23-98					
Lead	ND	1.0	200.8		8-29-16	
Lab ID: Client ID:	08-346-34 <b>8-23-99</b>					
Lead	2.0	1.0	200.8		8-29-16	



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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-35					v
Client ID:	8-23-100					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-36					
Client ID:	8-23-101					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-37					
Client ID:	8-23-102					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-38					
Client ID:	8-23-103					
Lead	2.3	1.0	200.8		8-29-16	
Lab ID:	08-346-39					
Client ID:	8-23-104					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-40					
Client ID:	8-23-105					
Lead	ND	1.0	200.8		8-29-16	
						· · · · · ·



Matrix: Units:	Water ug/L (ppb)					
0				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-346-41 <b>8-23-106</b>					
Lead	ND	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-42 <b>8-23-107</b>					
Lead	1.6	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-43 <b>8-23-108</b>					
Lead	1.3	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-44 <b>8-23-109</b>					
Lead	ND	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-45 <b>8-23-110</b>					
Lead	1.2	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-46 <b>8-23-111</b>					
Lead	1.4	1.0	200.8		8-29-16	
Lab ID: <b>Client ID:</b>	08-346-47 <b>8-23-112</b>					
Lead	ND	1.0	200.8		8-29-16	

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Water					
ug/L (ppb)			Date	Date	
Result	PQL	EPA Method	Prepared	Analyzed	Flags
08-346-48			· ·		<u>`</u>
8-23-113					
ND	1.0	200.8		8-29-16	
00 040 40					
ND	1.0	200.8		8-29-16	
08-346-50					
8-23-115					
ND	1.0	200.8		8-29-16	
08-346-51					
8-23-116					
2.1	1.0	200.8		8-29-16	
00.046.50					
ND	1.0	200.8		8-29-16	
08-346-53					
8-23-118					
ND	1.0	200.8		8-29-16	
08-346-54					
ND	1.0	200.8		8-29-16	
	Result         08-346-48         8-23-113         ND         08-346-49         8-23-114         ND         08-346-50         8-23-115         ND         08-346-51         8-23-116         2.1         08-346-52         8-23-117         ND         08-346-52         8-23-117         ND         08-346-53         8-23-118         ND	Result     PQL       08-346-48     8-23-113       ND     1.0       08-346-49     8-23-114       08-346-50     8-23-114       08-346-50     8-23-115       08-346-51     8-23-115       08-346-51     8-23-116       08-346-52     8-23-117       08-346-52     8-23-117       08-346-53     8-23-118       ND     1.0       08-346-54     8-23-119	Result         PQL         EPA Method           08-346-48         8-23-113         200.8           ND         1.0         200.8           08-346-49	ug/L (ppb)         Date           Result         PQL         EPA Method         Prepared           08-346-48         8-23-113         -         -           ND         1.0         200.8         -           08-346-49         -         -         -           8-23-114         -         -         -           08-346-49         -         -         -           8-23-114         -         -         -           08-346-50         -         -         -           08-346-51         -         -         -           08-346-51         -         -         -           08-346-51         -         -         -           08-346-51         -         -         -           08-346-52         -         -         -           08-346-53         -         -         -           08-346-53         -         -         -           08-346-53         -         -         -           08-346-54         -         -         -         -           08-346-54         -         -         -         -           08-346-54         -         <	ug/L (ppb)         Date         Date         Date           Result         POL         EPA Method         Prepared         Analyzed           08-346-48         8-23-113



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Matrix:	Water					
Units:	ug/L (ppb)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-55			· · ·		
Client ID:	8-23-120					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-56					
Client ID:	8-23-121					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-57					
Client ID:	8-23-122					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-58					
Client ID:	8-23-123					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-59					
Client ID:	8-23-124					
Lead	ND	1.0	200.8		8-29-16	
Lab ID:	08-346-60					
Client ID:	8-23-125					
Lead	ND	1.0	200.8		8-29-16	



Matrix: Units:	Water ug/L (ppb)					
0	-3/-(PP-/)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	08-346-61 <b>8-23-126</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: Client ID:	08-346-62 <b>8-23-128</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-63 <b>8-23-129</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-64 <b>8-23-132</b>					
Lead	ND	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-65 <b>8-23-133</b>					
Lead	1.0	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-66 <b>8-23-134</b>					
Lead	1.2	1.0	200.8		8-27-16	
Lab ID: <b>Client ID:</b>	08-346-67 <b>8-23-135</b>					
Lead	1.0	1.0	200.8		8-27-16	

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Matrix: Units:	Water ug/L (ppb)					
	0 (11 )			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-346-68					
Client ID:	8-23-136					
Lead	ND	1.0	200.8		8-27-16	
Lab ID:	08-346-69					
Client ID:	8-23-137					
Lead	ND	1.0	200.8		8-27-16	



## DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16	
Matrix: Units:	Water ug/L (ppb)	
Lab ID:	MB0827DW3	
Analyte	Method	Result
Lead	200.8	ND



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

## DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0829DW1		
Analyte	Method	Result	
Lead	200.8	ND	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

## DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16	
Matrix: Units:	Water ug/L (ppb)	
Lab ID:	MB0829DW2	
Analyte	Method	Result
Lead	200.8	ND



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

## DRINKING WATER LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed:	8-27-16		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0827DW2		
Analyte	Method	Result	
Lead	200.8	ND	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

PQL

# DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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# DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-21

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	2.38	2.06	14	1.0	



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# DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-41

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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# DRINKING WATER LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-61

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



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# DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	76.9	96	76.6	96	0	



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# DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-21

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	74.5	90	74.1	90	0	



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# DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-41

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	73.7	92	73.8	92	0	



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# DRINKING WATER LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed:	8-27-16
----------------	---------

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 08-346-61

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	80.0	78.4	98	75.7	95	3	



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# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Parenerouse	In working daryst revoluting daryst geg       Laboratory Number: (Check Oral (Check Oral)       Laboratory Number: (Check Oral)       CR-S 4 6         (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Oral)       (Check Oral)       (Check Oral)         (Oral)       (Check Oral)       (Check Ora)       (Check Oral) <td< td=""><td>ed/Date</td><td>ā.</td><td>shed</td><td>ē.</td><td>ished</td><td></td><td></td><td>shed ANM</td><td>Signature</td><td>1</td><td>-28-7</td><td>8-22-73</td><td>-22-7</td><td>8-22-71</td><td>-22</td><td>-22-</td><td>-22-1</td><td>22-6</td><td>-25-</td><td>Sample Identification</td><td>K</td><td>Y.</td><td>HITCHAN RENTAL</td><td>62016/0</td><td></td><td>C</td><td>Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (2/5) 883-3881 • www.onsite.eov.com</td><td>IN OnSite Environmental Inc.</td></td<>	ed/Date	ā.	shed	ē.	ished			shed ANM	Signature	1	-28-7	8-22-73	-22-7	8-22-71	-22	-22-	-22-1	22-6	-25-	Sample Identification	K	Y.	HITCHAN RENTAL	62016/0		C	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (2/5) 883-3881 • www.onsite.eov.com	IN OnSite Environmental Inc.
Number:	Image: Standard     Image: Standar	Reviewed/Date			Þ.		L Wac	- Con	BHEC	Company		-		1507	1502	1500	1458	1457	1451	0335 H2	Time Sampled	(other)		(TPH analysis 5 Days)			(Check One)	Turnaround Request (in working days)	Chain
Date Package:       Standard       Image: St	Chomator and						N PUPIP	hi li in	-25-16 12		*										NWTF NWTF NWTF NWTF Volati	PH-HCI PH-Gx/ PH-Gx PH-Dx ( les 826	BTEX	d / SG C		p)		Laboratory Num	of Custody
	Image: Construction of the co	Chromatograms with final report	Standard				Č	20	8	Comments/Special Instructions											EDB I Semiv (with PAHs PCBs Organ Organ Chlori	EPA 80 volatiles low-lev 8270D 88082A nochlor nophos inated /	11 (Wa s 8270) el PAH /SIM (I sine Pes phorus Acid He	ters Only D/SIM s) ow-level sticides & Pesticic erbicides	/) ) 3081B les 827		M	08-34	

			W la	Relinquished	Signature	8-23-85	8-23-84	8-23-83	8-23-82	8-23-81	8-23-80	8-23-79	8-23-78	6-23-77	8-23-76	Sample Identification	Sampled by: Y i MEYER	ager: V. t.	WHITEMAN RENTAL POPS	62016/0808	SMEC	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	<b>OnSite</b> Environmental Inc.
Reviewed/Date			y oni	BHEC	Company	V 0754 V	0953	Cf150	051451	C947	6946	0943	0942	0940	8-23-16 0939 Hz O	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days. 3 Days	Same Day	(in working days)	Chain of
			Q26/1 1030	8-25-16 1200	Date Time	4										NWTP NWTP NWTP NWTP Volatile	H-HCII H-Gx/E H-Gx H-Dx (	3TEX	/ SG CI		)	Laboratory Number:	f Custody
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Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	30 8-23-95	28 8-23-94	28 8-13-93	27 8-23-92	26 8-23-91	25 8-23-90	24 8-23-89	23 8-23-88	22 8-23-87	U 8-23-86	Lab ID Sample Identification	Sampled by: Y, MOYES	Der V. NEVER	Project Name:	E2016/0808	Company: BAEC	An Ph Ph	Environmental Inc.
Reviewed/Date					2 CONE	BHEC	Company	V 1015 V	1014	0401	1669	100%	1001	10072	1001	0959	8-22-16 0958 H, O	Date Time Sampled Sampled Matrix	(other)	(TPH analysis 5 Days)	Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	Turnaround Request (in working days)	Chain of
				ç	X26/16 1030	8-25-16 1200	Date Time											NWTP NWTP NWTP NWTP Volatile Haloge	H-HCII H-Gx/E H-Gx H-Dx ( es 8260 enated	BTEX	SG Cle			Laboratory Number:	Custody
Chromatograms with final report $\Box$ Electronic Data Deliverables (EDDs) $\Box$	Data Package: Standard  Level III  Level IV						Comments/Special Instructions										×	Semivo (with Ic PAHs & PCBs & Organo Organo Chlorir Total R Total M TCLP I HEM (c	olatiles 3270D/ 8082A ochlorin ophosp ated A CRA M ITCA N Vletals	ne Pesticio phorus Pes Acid Herbio Netals	IM level) des 80 sticide cides 8	)81B s 8270 B151A	D/SIM	r: 08-346	Page 3 of 8

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received W	Relinquished	Signature	40 8-23-105	39 8-23-104	38 8-23-103	37 8-23-102	36 8-23-101	35 8-23-100	34 8-23-99	33 8-23-98	32 8-23-97	31 8-23.96	Lab ID Sample Identification		Y. MAYAR	WHITHAN RENTAL PLOPS	E2016/0808	Project Number:			
Reviewed/Date					360	BHEL	Company	V 1041 V	1040	1834	1033	1025	1024	1201	1620	1018	523-16 1017 H2O	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days. 3 Days	Same Day 1 Day	(Check One)	Chain of	2
					A19911 1030	8-25-16 1200	Date Time	V										NWTP NWTP NWTP NWTP Volatile	'H-Dx ( es 826(	D BTEX	ers 1 / SG C 25 82600		)	Laboratory Number:	Custody	
Chromatograms with final report 🔲 Electronic Data Deliverables (EDDs) 🗌	Data Package: Standard 🛛 Level III 🗍 Level IV 🗍					0	Comments/Special Instructions										×	Semiv (with 10 PAHs 1 PCBs Organo Organo Chlorir Total F Total N TCLP HEM (	olatiles pow-leve 8270D// 8082A ochlori pophosp nated A ACRA N Metals oil and	8270E el PAH: SIM (lo ne Pes ohorus Acid He Aetals grease	;) w-level) ticides 8	081B es 827/ 8151A	od/sim	08-34		

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	50 8-23-115	49 8-23-114	48 8-23-113	47 8-23-112	46 8-23.111	45 8-23-110	44 8-23-109	43 8-23.108	42 8.23.107	41 8-23-106	Lab 1D Sample Identification	Sampled by: Yir EVER	Provide him Y. MEVER	WHITMAN RENTAL ROPS	8080/91023	Project Number:		Environmental Inc.
Reviewed/Date			5		y ar	BHEC	Company	V 1250 V	1104	1103	1101	1100	4501	1056	1052	(65)	8-23-16 10+4 H2O	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days. 3 Days	Same Day 1 Day	(in working days) (Check One)	Chain of
					X26/16 1030	8-25-16 1200	Date Time	<										NWTP NWTP NWTP NWTP Volatile Haloge	H-HCI H-Gx/I H-Gx H-Dx ( es 8260	BTEX	/ SG CI s 82600	;	)	Laboratory Number:	f Custody
Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs) 🗌	Data Package: Standard  Level III Level IV					1	Comments/Special Instructions											Semiv. (with la PAHs 2 PCBs Organa Organa Chlorir Total R Total N TCLP I HEM (a	olatiles 3270D/ 8082A 0chlori 0phosp nated A ACRA N //TCA N //TCA N Metals	a 8270D el PAHs (SIM (lo ne Pest bhorus F Acid Hen Acid Hen Acid Hen Metals grease)		081B es 8270 8151A	secola - car	·· 08-346	Page 5 of 8

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	60 8.23.125	59 8.23.124	58 8.23.123	57 8.23.122	56 8.23.121	55 8. 84.23.120	54 8.23,119	53 8-23-118	52 8-23-117	51 8.23.116	Lab ID Sample Identification	Variphed by.	Someled has V. NOVER	Briter MARITEMAN RENTAL ROPS	E2016/0808	Project Number:		Environmental Inc.
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					X126/16 103	8-25-16 1200	Date Time	*										NWTP NWTP NWTP NWTP Volatile	H-HCI H-Gx/I H-Gx H-Dx (	BTEX	ers / SG CI s 82600		)	Laboratory Number:	Custody
s with final report  Electron	Data Package: Standard  Level III Level IV				C	U	Comments/Special Instructions	4										Semiv (with la PAHs I PCBs Organe Organe Chlorir Total F Total N TCLP I HEM (c	olatiles pow-leve 3270D/ 8082A ochlori ophosp nated A ACRA N Metals	a 8270D. el PAHs (SIM (lor ne Pest bhorus F Acid Her Acid Her Acid Her Acid Her Acials		081B es 8270 8151A		er: 08-346	Page 6 of 8

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	10122.124	5 0 0	68 8.23, 136	67 8.23.135	66 8.23.134	65 8-23-133	64 8.23:132	63 8.23.129	62 8-23,128	61 8-23-126	Lab ID Sample Identification	Y, VEYER	Sampled by: V. MEVEL	Project Manager: W.H.I TEVAN RENTAL PROPS	E2016/0808	Project Number:	Company:	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Environmental Inc.
Reviewed/Date					92°	BHEC	Company	V 1701 V	N N	1767	1408	1407	1358	F561	1341	1340 1	8.23.16 1329 H20	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days. 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)	Chain of
					A MARK	8-25-16 1	Date Time	-										NWTP NWTP NWTP	H-HC H-Gx/ H-Gx H-Dx	BTEX	hers	ean-uj	5)		Laboratory N	Chain of Custody
Chromate	Data Package:				030	200												Haloge EDB E Semive (with lo	PA 80 Datile: Dw-lev	l Volatil 11 (Wa s 82701 el PAH		)			umber: 08	
Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs) 🗌	ckage: Standard 🛛 Level III 🗍 Level IV 🗍						Comments/Special Instructions	~									X	Organo Chlorir Total R Total M TCLP I HEM (c	ochlor ophos nated / ICRA I ITCA I Metals oil and	ine Pes phorus Acid He Metals Metals	Pesticides Protection	es 827 8151/	A		-346	Page 7 of
ables (EDDs) 🗌																		% Mois	sture							8

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	Project Number: Project Name: Project Name: WHITEMAN RENTAL PLOBOR Sampled by: VINEVER Lab 10 Sample Identification 70 72 72 72 72 72 72 72 72 72 72 73 73 74 75 73 72 72 72 73 73 74 75 73 73 72 75 73 73 73 74 75 75 73 73 75 75 75 75 75 75 75 75 75 75 75 75 75		Environmental Inc.
Reviewed/Date			2		OXE	BHEL	Company	Same Day 2 Day Standard (7 Day Standa	Iurnaround Request (in Working days) (Check One)	Chain of Custody
					8/26/16 1030	8-25-16 1200	Date Time	Image: Second system       Image: Second system       NWTPH-HCID         Image: Second system       Image: Second system       NWTPH-Gx/BTEX         Image: Second system       Image: Second system       NWTPH-Gx         Image: Second system       Image: Second system       NWTPH-Dx (Image: Second system)         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         Image: Second system       Image: Second system       Image: Second system         I	Laboratory Number:	Custody
Chromatograms with final report   Electronic Data Deliverables (EDDs)	Data Package: Standard  Level III  Level IV						Comments/Special Instructions	EDB EPA 8011 (Waters Only)         Semivolatiles 8270D/SIM (with low-level PAHs)         PAHs 8270D/SIM (low-level)         PAHs 8270D/SIM (low-level)         PCBs 8082A         Organochlorine Pesticides 8081B         Organophosphorus Pesticides 8081B         Organophosphorus Pesticides 8151A         Chlorinated Acid Herbicides 8151A         Total RCRA Metals         Total MTCA Metals         HEM (oil and grease) 1664A         PAHs 1         Image: Provide and	- 08-346	Page 8 of 8