



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 3, 2018

George Iftner
Herrera Environmental Consultants, Inc.
2200 6th Avenue, Suite 1100
Seattle, WA 98121

Re: Analytical Data for Project 17-06520-000
Laboratory Reference No. 1803-248

Dear George:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2018.

Please note the data for the additionally requested analyses will follow in the final report

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



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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.

Date of Report: April 3, 2018
Samples Submitted: March 23, 2018
Laboratory Reference: 1803-248
Project: 17-06520-000

Case Narrative

Samples were collected on March 23, 2018 and received by the laboratory on March 23, 2018. 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.



Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

NWTPH-HCID

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	03-248-01					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Client ID:	MW2					
Laboratory ID:	03-248-02					
Gasoline Range Organics	ND	0.11	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Client ID:	MW3					
Laboratory ID:	03-248-03					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	MW4					
Laboratory ID:	03-248-04					
Gasoline Range Organics	ND	0.11	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.27	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.44	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	MW5					
Laboratory ID:	03-248-05					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				



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NWTPH-HCID

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	03-248-06					
Gasoline Range Organics	ND	0.11	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.28	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.45	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Client ID:	B-06					
Laboratory ID:	03-248-07					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	123	50-150				

Client ID:	B-09					
Laboratory ID:	03-248-08					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Client ID:	B-11					
Laboratory ID:	03-248-09					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Gasoline Range Organics	ND	0.040	NWTPH-HCID	3-27-18	3-27-18	
Diesel Range Organics	ND	0.10	NWTPH-HCID	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.16	NWTPH-HCID	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>80</i>	<i>50-150</i>				



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	03-248-01					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	MW2					
Laboratory ID:	03-248-02					
Arsenic	3.4	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	MW3					
Laboratory ID:	03-248-03					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	MW4					
Laboratory ID:	03-248-04					
Arsenic	6.0	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	03-248-05					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	3.2	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	MW6					
Laboratory ID:	03-248-06					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	B-06					
Laboratory ID:	03-248-07					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	1.9	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Client ID:	B-09					
Laboratory ID:	03-248-08					
Arsenic	3.7	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-11					
Laboratory ID:	03-248-09					
Arsenic	ND	3.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	4.4	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	11	EPA 200.8	3-27-18	3-27-18	
Lead	ND	1.1	EPA 200.8	3-27-18	3-27-18	
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	



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**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327WM1					
Arsenic	ND	8.3	EPA 200.8	3-27-18	3-27-18	
Cadmium	ND	11	EPA 200.8	3-27-18	3-27-18	
Chromium	ND	28	EPA 200.8	3-27-18	3-27-18	
Lead	ND	2.8	EPA 200.8	3-27-18	3-27-18	

Laboratory ID:	MB0330W1					
Mercury	ND	0.50	EPA 7470A	3-30-18	3-30-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-068-09							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	03-248-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	03-068-09									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	114	110	111	111	ND	102	99	75-125	3	20
Cadmium	123	120	111	111	ND	111	108	75-125	3	20
Chromium	109	108	111	111	ND	99	97	75-125	1	20
Lead	125	123	111	111	ND	113	111	75-125	1	20

Laboratory ID:	03-248-01									
Mercury	12.2	11.4	12.5	12.5	ND	97	91	75-125	7	20



Date of Report: April 3, 2018
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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	03-248-01					
Benzo[a]anthracene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>34</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>53</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>52</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2					
Laboratory ID:	03-248-02					
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>68</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3					
Laboratory ID:	03-248-03					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>62</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>81</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW4					
Laboratory ID:	03-248-04					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>48</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>71</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	03-248-05					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>43</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>68</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>64</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	03-248-06					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-06					
Laboratory ID:	03-248-07					
Benzo[a]anthracene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	51	25 - 107				
Pyrene-d10	70	28 - 103				
Terphenyl-d14	65	36 - 129				



Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-09					
Laboratory ID:	03-248-08					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>55</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>36 - 129</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-11					
Laboratory ID:	03-248-09					
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>44</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>62</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>59</i>	<i>36 - 129</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
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 Project: 17-06520-000

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0326W1					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Chrysene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>56</i>	<i>25 - 107</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>28 - 103</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>36 - 129</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

cPAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					Recovery					
SPIKE BLANKS										
Laboratory ID:	SB0326W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.391	0.424	0.500	0.500	78	85	47 - 131	8	27	
Chrysene	0.415	0.450	0.500	0.500	83	90	48 - 120	8	29	
Benzo[b]fluoranthene	0.383	0.449	0.500	0.500	77	90	42 - 128	16	29	
Benzo(j,k)fluoranthene	0.420	0.429	0.500	0.500	84	86	46 - 121	2	27	
Benzo[a]pyrene	0.368	0.402	0.500	0.500	74	80	34 - 121	9	29	
Indeno(1,2,3-c,d)pyrene	0.407	0.445	0.500	0.500	81	89	39 - 128	9	28	
Dibenz[a,h]anthracene	0.410	0.448	0.500	0.500	82	90	39 - 125	9	30	
Surrogate:										
2-Fluorobiphenyl					56	61	25 - 107			
Pyrene-d10					80	85	28 - 103			
Terphenyl-d14					78	82	36 - 129			



Date of Report: April 3, 2018
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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	03-248-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1					
Laboratory ID:	03-248-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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 Project: 17-06520-000

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2					
Laboratory ID:	03-248-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2					
Laboratory ID:	03-248-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3					
Laboratory ID:	03-248-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3					
Laboratory ID:	03-248-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW4					
Laboratory ID:	03-248-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW4					
Laboratory ID:	03-248-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	1.1	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: April 3, 2018
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 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	03-248-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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 Project: 17-06520-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5					
Laboratory ID:	03-248-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: April 3, 2018
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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	03-248-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6					
Laboratory ID:	03-248-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-06					
Laboratory ID:	03-248-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-06					
Laboratory ID:	03-248-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-09					
Laboratory ID:	03-248-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-09					
Laboratory ID:	03-248-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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 Project: 17-06520-000

VOLATILES by EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-11					
Laboratory ID:	03-248-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-11					
Laboratory ID:	03-248-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	0.36	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Date of Report: April 3, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0402W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloromethane	ND	1.3	EPA 8260C	4-2-18	4-2-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromomethane	ND	0.25	EPA 8260C	4-2-18	4-2-18	
Chloroethane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Acetone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Iodomethane	ND	1.5	EPA 8260C	4-2-18	4-2-18	
Carbon Disulfide	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Vinyl Acetate	ND	1.0	EPA 8260C	4-2-18	4-2-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Butanone	ND	5.0	EPA 8260C	4-2-18	4-2-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chloroform	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Benzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Trichloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Dibromomethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Toluene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-2-18	4-2-18	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0402W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Hexanone	ND	2.0	EPA 8260C	4-2-18	4-2-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Ethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
m,p-Xylene	ND	0.40	EPA 8260C	4-2-18	4-2-18	
o-Xylene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Styrene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromoform	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Isopropylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Bromobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Propylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
n-Butylbenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
Naphthalene	ND	1.0	EPA 8260C	4-2-18	4-2-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-2-18	4-2-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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 Laboratory Reference: 1803-248
 Project: 17-06520-000

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0402W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.74	9.66	10.0	10.0	97	97	63-126	1	21	
Benzene	9.79	9.70	10.0	10.0	98	97	78-122	1	19	
Trichloroethene	9.69	9.60	10.0	10.0	97	96	63-120	1	20	
Toluene	10.2	10.0	10.0	10.0	102	100	79-124	2	19	
Chlorobenzene	9.36	9.28	10.0	10.0	94	93	78-120	1	19	
Surrogate:										
Dibromofluoromethane					97	100	75-127			
Toluene-d8					99	102	80-127			
4-Bromofluorobenzene					98	101	78-125			





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-naphthalene) 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.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



