

Howard Holman

Client: AECOM
Project: Portland Harbor Pre-Remedial DI&BS/60566335
Sample Matrix: Surface Water

Service Request: K1901569
Date Analyzed: 02/28/19 17:58
Date Extracted: 02/22/19

Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:** K-MS-29
Lab Code: KQ1902267-01 **File ID:** J:\MS29\DATA\022819\0228F031.D\
Analysis Method: 8270D **Analysis Lot:** 626992
Prep Method: EPA 3520C **Extraction Lot:** 331799

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1902267-03	J:\MS29\DATA\022819\0228F030.D\	02/28/19 17:30
Duplicate Lab Control Sample	KQ1902267-02	J:\MS29\DATA\022819\0228F032.D\	02/28/19 18:27
PDI-WS-T01-1902	K1901569-001	J:\MS29\DATA\022819\0228F033.D\	02/28/19 18:55
PDI-WS-T02-1902	K1901569-002	J:\MS29\DATA\022819\0228F034.D\	02/28/19 19:23
PDI-WS-T03-1902	K1901569-003	J:\MS29\DATA\022819\0228F035.D\	02/28/19 19:51
PDI-WS-T04-1902	K1901569-004	J:\MS29\DATA\022819\0228F036.D\	02/28/19 20:20
PDI-WS-T05-1902	K1901569-005	J:\MS29\DATA\022819\0228F037.D\	02/28/19 20:48

Client: AECOM
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Service Request: K1901569
Date Analyzed: 02/28/19 16:34

Tune Summary
Low Level Semivolatile Organic Compounds by GC/MS

File ID: J:\MS29\DATA\022819\0228F028.D\
Instrument ID: K-MS-29

Analytical Method: 8270D
Analysis Lot: 626992

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	31.56	1642225	Pass
68	69	0	2	1.58	30829	Pass
69	198	0	100	37.61	1957140	Pass
70	69	0	2	0.46	9080	Pass
127	198	10	80	46.44	2416664	Pass
197	198	0	2	0.23	11850	Pass
198	442	30	100	72.15	5203891	Pass
199	198	5	9	6.60	343616	Pass
275	198	10	60	28.66	1491456	Pass
365	442	1	50	2.00	144554	Pass
441	443	0.01	100	78.82	1168725	Pass
442	442	30	100	100.00	7213056	Pass
443	442	15	24	20.56	1482752	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ1902686-02	J:\MS29\DATA\022819\0228F029.D\	02/28/19 17:02	
Method Blank	KQ1902267-03	J:\MS29\DATA\022819\0228F030.D\	02/28/19 17:30	
Lab Control Sample	KQ1902267-01	J:\MS29\DATA\022819\0228F031.D\	02/28/19 17:58	
Duplicate Lab Control Sample	KQ1902267-02	J:\MS29\DATA\022819\0228F032.D\	02/28/19 18:27	
PDI-WS-T01-1902	K1901569-001	J:\MS29\DATA\022819\0228F033.D\	02/28/19 18:55	
PDI-WS-T02-1902	K1901569-002	J:\MS29\DATA\022819\0228F034.D\	02/28/19 19:23	
PDI-WS-T03-1902	K1901569-003	J:\MS29\DATA\022819\0228F035.D\	02/28/19 19:51	
PDI-WS-T04-1902	K1901569-004	J:\MS29\DATA\022819\0228F036.D\	02/28/19 20:20	
PDI-WS-T05-1902	K1901569-005	J:\MS29\DATA\022819\0228F037.D\	02/28/19 20:48	

Client: AECOM
Project: Portland Harbor Pre-Remedial DI&BS

Service Request: K1901569
Calibration Date: 2/25/2019

Initial Calibration Summary
Low Level Semivolatile Organic Compounds by GC/MS

Calibration ID: KC1900080
Instrument ID: K-MS-29

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC1900080-01	SVO_LL ICAL @ 0.05ug/mL SVM60-33C	J:\MS29\DATA\022519\0225F003.D	02/25/2019 16:37
02	KC1900080-02	SVO_LL ICAL @ 0.1ug/mL SVM60-33D	J:\MS29\DATA\022519\0225F004.D	02/25/2019 17:06
03	KC1900080-03	SVO_LL ICAL @ 0.2ug/mL SVM60-33E	J:\MS29\DATA\022519\0225F005.D	02/25/2019 17:34
04	KC1900080-04	SVO_LL ICAL @ 0.5ug/mL SVM60-33F	J:\MS29\DATA\022519\0225F006.D	02/25/2019 18:03
05	KC1900080-05	SVO_LL ICAL @ 1.0ug/mL SVM60-33G	J:\MS29\DATA\022519\0225F007.D	02/25/2019 18:31
06	KC1900080-06	SVO_LL ICAL @ 2.0ug/mL SVM60-33H	J:\MS29\DATA\022519\0225F008.D	02/25/2019 19:00
07	KC1900080-07	SVO_LL ICAL @ 3.0ug/mL SVM60-33I	J:\MS29\DATA\022519\0225F009.D	02/25/2019 19:28
08	KC1900080-08	SVO_LL ICAL @ 5.0ug/mL SVM60-33J	J:\MS29\DATA\022519\0225F010.D	02/25/2019 19:56
09	KC1900080-09	SVO_LL ICAL @ 7.0ug/mL SVM60-33K	J:\MS29\DATA\022519\0225F011.D	02/25/2019 20:25
10	KC1900080-10	SVO_LL ICAL @ 10ug/mL SVM60-33L	J:\MS29\DATA\022519\0225F012.D	02/25/2019 20:53

Analyte

Bis(2-ethylhexyl) Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	200.000	0.5051	04	500.000	0.6191	05	1000.000	0.7066	06	2000.000	0.7502
07	3000.000	0.8876	08	5000.000	0.8975	09	7000.000	0.8919	10	10000.000	0.8602

p-Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	100.000	1.072	03	200.000	1.172	04	500.000	1.062	05	1000.000	1.018
06	2000.000	0.9686	07	3000.000	0.9932	08	5000.000	0.9917	09	7000.000	0.9793
10	10000.000	0.9256									

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Project: Portland Harbor Pre-Remedial DI&BS

Service Request: K1901569
Calibration Date: 2/25/2019

Initial Calibration Summary
Low Level Semivolatile Organic Compounds by GC/MS

Calibration ID: KC1900080
Instrument ID: K-MS-29

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	19.2	20	0.7648	0.010
p-Terphenyl-d14	SURR	Average RF	% RSD	7.1	20	1.02	0.010

Client: AECOM
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Service Request: K1901569
Calibration Date: 2/25/2019

Initial Calibration Verification Summary
Low Level Semivolatile Organic Compounds by GC/MS

Calibration ID: KC1900080
Instrument ID: K-MS-29

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
11	KC1900080-11	SVO_LL ICV @ 3.0ug/mL SVM60-49A	J:\MS29\DATA\022519\0225F013.D	02/25/2019 21:21

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Bis(2-ethylhexyl) Phthalate	3000	3310	7.648E-1	8.449E-1	10.48	±30	Average RF

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Service Request: K1901569
Date Analyzed: 02/28/19 17:02

**Continuing Calibration Verification (CCV) Summary
Low Level Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D
File ID: J:\MS29\DATA\022819\0228F029.D\
Signal ID: 1

Calibration Date: 2/25/2019
Calibration ID: KC1900080
Analysis Lot: 626992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Bis(2-ethylhexyl) Phthalate	3000	3000	0.7648	0.7653	0.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
p-Terphenyl-d14	3000	2500	1.0202	0.8502	-16.7	NA	±20	Average RF

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QA/QC Report

Client: AECOM
Project: Portland Harbor Pre-Remedial DI&BS/60566335

Service Request:K1901569

Analysis Run Log
Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:626992
Instrument ID:K-MS-29

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\MS29\DATA\022819\0228F028.D\	ZZZZZZZ	ZZZZZZZ	2/28/2019	16:34:00	
J:\MS29\DATA\022819\0228F029.D\	Continuing Calibration Verification	KQ1902686-02	2/28/2019	17:02:00	
J:\MS29\DATA\022819\0228F030.D\	Method Blank	KQ1902267-03	2/28/2019	17:30:00	
J:\MS29\DATA\022819\0228F031.D\	Lab Control Sample	KQ1902267-01	2/28/2019	17:58:00	
J:\MS29\DATA\022819\0228F032.D\	Duplicate Lab Control Sample	KQ1902267-02	2/28/2019	18:27:00	
J:\MS29\DATA\022819\0228F033.D\	PDI-WS-T01-1902	K1901569-001	2/28/2019	18:55:00	
J:\MS29\DATA\022819\0228F034.D\	PDI-WS-T02-1902	K1901569-002	2/28/2019	19:23:00	
J:\MS29\DATA\022819\0228F035.D\	PDI-WS-T03-1902	K1901569-003	2/28/2019	19:51:00	
J:\MS29\DATA\022819\0228F036.D\	PDI-WS-T04-1902	K1901569-004	2/28/2019	20:20:00	
J:\MS29\DATA\022819\0228F037.D\	PDI-WS-T05-1902	K1901569-005	2/28/2019	20:48:00	

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Prep Summary Report

Client: AECOM
Project: Portland Harbor Pre-Remedial DI&BS/60566335
Sample Matrix: Surface Water

Service Request:K1901569

Low Level Semivolatile Organic Compounds by GC/MS

Prep Method: EPA 3520C
Analytical Method: 8270D

Extraction Lot: 331799
Extraction Date: 02/22/19 08:50

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
PDI-WS-T01-1902	K1901569-001	2/18/19	2/21/19	980.0000 mL	2 mL	
PDI-WS-T02-1902	K1901569-002	2/18/19	2/21/19	970.0000 mL	2 mL	
PDI-WS-T03-1902	K1901569-003	2/18/19	2/21/19	960.0000 mL	2 mL	
PDI-WS-T04-1902	K1901569-004	2/17/19	2/21/19	1040.0000	2 mL	
PDI-WS-T05-1902	K1901569-005	2/17/19	2/21/19	970.0000 mL	2 mL	
Lab Control Sample	KQ1902267-01LCS	NA	NA	1000.0000	2 mL	
Duplicate Lab Control Sample	KQ1902267-02DLCS	NA	NA	1000.0000	2 mL	
Method Blank	KQ1902267-03MB	NA	NA	1040.0000	2 mL	