

PART IX APPENDIX

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APPENDIX A
Coatings Heavy Metals Testing



Oilfield Environmental & Compliance, Inc.

Will Bellis
Advantage Technical Services
6661 Fern Canyon Road
San Luis Obispo, CA 93401

Report: June 18, 2018 10:35

Work Order: 1801546

Project: Advantage Technical Services
Number: Twainhearte

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on April 09, 2018 14:35 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Emily van Ryn, Project Manager

evanryn@oecusa.com



Oilfield Environmental & Compliance, Inc.

Advantage Technical Services
6661 Fern Canyon Road
San Luis Obispo CA, 93401

Project: Advantage Technical Services
Project Number: Twainhearte
Project Manager: Will Bellis

WO & Reported:
1801546
06/18/2018 10:35

SAMPLE SUMMARY

Sample ID	Laboratory ID	Client Matrix	Lab Matrix	Date Sampled	Date Received
MG #2 EXTERIOR ROOF	1801546-01	Solid	Solid	11/29/17 00:00	04/09/18 14:35
MG #2 INTERIOR FLOOR	1801546-02	Solid	Solid	11/29/17 00:00	04/09/18 14:35
MG #2 INTERIOR HATCH	1801546-03	Solid	Solid	11/29/17 00:00	04/09/18 14:35
MG #1 EXTERIOR ROOF	1801546-04	Solid	Solid	11/29/17 00:00	04/09/18 14:35
MG #1 INTERIOR HATCH	1801546-05	Solid	Solid	11/29/17 00:00	04/09/18 14:35

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1801546
06/18/2018 10:35

ANALYTICAL REPORT FOR SAMPLES 1801546-01 (Solid) MG #2 EXTERIOR ROOF

Analyte	Result	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by ICP

Cadmium	2.2	0.49	mg/kg	1	B8D0223	04/09/18	04/11/18	EPA 6010B	
Chromium	15,000	19	"	20	"	"	04/18/18	"	N-01, N-03
Lead	72,000	190	"	200	"	"	04/11/18	"	N-01, N-03

1801546-02 (Solid) MG #2 INTERIOR FLOOR

Analyte	Result	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by ICP

Cadmium	4.2	0.24	mg/kg	1	B8D0223	04/09/18	04/11/18	EPA 6010B	
Chromium	150	0.97	"	2	"	"	04/18/18	"	N-02, N-03
Lead	6.2	0.48	"	1	"	"	04/11/18	"	

1801546-03 (Solid) MG #2 INTERIOR HATCH

Analyte	Result	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by ICP

Cadmium	0.78	0.24	mg/kg	1	B8D0223	04/09/18	04/11/18	EPA 6010B	
Chromium	230	0.96	"	2	"	"	04/18/18	"	N-02, N-03
Lead	1100	0.48	"	1	"	"	04/11/18	"	N-01, N-03

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WO & Reported:
1801546
06/18/2018 10:35

1801546-04 (Solid)

MG #1 EXTERIOR ROOF

Analyte	Result	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by ICP

Cadmium	ND	0.49	mg/kg	1	B8D0223	04/09/18	04/11/18	EPA 6010B	
Chromium	970	4.9	"	5	"	"	04/18/18	"	N-02, N-03
Lead	200	0.98	"	1	"	"	04/11/18	"	N-02, N-03

1801546-05 (Solid)

MG #1 INTERIOR HATCH

Analyte	Result	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by ICP

Cadmium	0.62	0.24	mg/kg	1	B8D0223	04/09/18	04/11/18	EPA 6010B	
Chromium	590	2.4	"	5	"	"	04/18/18	"	N-02, N-03
Lead	100	0.49	"	1	"	"	04/11/18	"	N-02, N-03

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06/18/2018 10:35

Total Metals by ICP - Quality Control

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D0223 - EPA 6010B Preparation: EPA 3050B 04/09/18 14:49

Blank (B8D0223-BLK1)

Analyzed: 04/11/18 11:45

Cadmium	ND	0.25	mg/kg							
Chromium	ND	0.50	"							
Lead	ND	0.50	"							

LCS (B8D0223-BS1)

Analyzed: 04/11/18 11:28

Cadmium	104	0.25	mg/kg	100		104	80-120			
Chromium	106	0.50	"	100		106	80-120			
Lead	106	0.50	"	100		106	80-120			

LCS Dup (B8D0223-BSD1)

Analyzed: 04/11/18 11:32

Cadmium	106	0.25	mg/kg	100		106	80-120	2.28	20	
Chromium	108	0.50	"	100		108	80-120	1.26	20	
Lead	109	0.50	"	100		109	80-120	2.66	20	

Duplicate (B8D0223-DUP1)

Source: 1801496-02

Analyzed: 04/11/18 12:06

Cadmium	ND	0.25	mg/kg		ND				20	
Chromium	59.8	0.50	"		38.9			42.5	20	QR-04
Lead	6.14	0.50	"		6.14			0.0642	20	

Matrix Spike (B8D0223-MS1)

Source: 1801496-02

Analyzed: 04/11/18 11:48

Cadmium	94.7	0.24	mg/kg	95.7	ND	99.0	82-117			
Chromium	153	0.48	"	95.7	38.9	119	63-149			
Lead	99.4	0.48	"	95.7	6.14	97.5	66-130			

Matrix Spike Dup (B8D0223-MSD1)

Source: 1801496-02

Analyzed: 04/11/18 11:52

Cadmium	98.9	0.25	mg/kg	98.6	ND	100	82-117	4.32	20	
Chromium	149	0.49	"	98.6	38.9	111	63-149	3.01	20	
Lead	104	0.49	"	98.6	6.14	99.3	66-130	4.59	20	

Post Spike (B8D0223-PS1)

Source: 1801496-02

Analyzed: 04/11/18 11:55

Cadmium	1.88		mg/L	2.00	-0.00342	93.9	75-125			
Chromium	2.78		"	2.00	0.804	99.0	75-125			
Lead	1.99		"	2.00	0.127	93.0	75-125			

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Notes and Definitions

TMP2	Temperature [Out-Exception] Insufficient Ice or Unknown Cause
QR-04	The RPD exceeded the QC control limits.
N-03	Analyte concentration above 20x TCLP.
N-02	Analyte concentration below TTLC but above 10x STLC.
N-01	Analyte concentration exceeds TTLC.
RL	Reporting Limit (Quantitation Limit)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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