



01-Jun-2020

Jake Janicek  
Caerus Oil and Gas LLC  
143 Diamond Ave.  
Parachute, CO 81635

Re: **E34-496 Cuttings**

Work Order: **20051847**

Dear Jake,

ALS Environmental received 3 samples on 23-May-2020 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: MN 026-999-449

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**Client:** Caerus Oil and Gas LLC  
**Project:** E34-496 Cuttings  
**Work Order:** 20051847

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20051847-01	20200520-E34-496 (CUTW)	Soil		5/20/2020 10:30	5/23/2020 09:00	<input type="checkbox"/>
20051847-02	20200520-E34-496 (CUTMID)	Soil		5/20/2020 10:45	5/23/2020 09:00	<input type="checkbox"/>
20051847-03	20200520-E34-496 (CUTE)	Soil		5/20/2020 11:00	5/23/2020 09:00	<input type="checkbox"/>

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**Client:** Caerus Oil and Gas LLC**Project:** E34-496 Cuttings**Work Order:** 20051847**Case Narrative**

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Batch 156537, Method DRO\_8015\_S, Samples 20051847-01A and -03A: DRO surrogate recoveries high due to matrix interference.

Batch 156606, Method CR6\_7196\_S, Sample 20051847-03A MS/MSD: The MS/MSD recovery was below the lower control limit for hexavalent chromium. The corresponding result in the parent sample may be biased low.

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
°C	Degrees Celcius
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

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s.u.      Standard Units

# ALS Group, USA

Date: 01-Jun-20

Client: Caerus Oil and Gas LLC  
Project: E34-496 Cuttings  
Sample ID: 20200520-E34-496 (CUTW)  
Collection Date: 5/20/2020 10:30 AM

Work Order: 20051847  
Lab ID: 20051847-01  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>			Prep: SW3550 / 5/27/20	Analyst: <b>JZB</b>
<b>DRO (C10-C28)</b>	<b>86</b>		<b>3.3</b>	<b>12</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/29/2020 06:54
Surr: 4-Terphenyl-d14	149	S		33-111	%REC	1	5/29/2020 06:54
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>			Prep: SW5035 / 5/27/20	Analyst: <b>JZB</b>
<b>GRO (C6-C10)</b>	<b>84</b>		<b>2.7</b>	<b>6.5</b>	<b>mg/Kg</b>	<b>1</b>	6/1/2020 12:03
Surr: Toluene-d8	87.6			71-123	%REC	1	6/1/2020 12:03
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>			Prep: SW7471 / 5/28/20	Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.20</b>		<b>0.015</b>	<b>0.022</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 14:09
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>			Prep: SW3050B / 5/28/20	Analyst: <b>STP</b>
<b>Arsenic</b>	<b>5.8</b>		<b>0.056</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Barium</b>	<b>480</b>		<b>4.3</b>	<b>4.6</b>	<b>mg/Kg-dry</b>	<b>10</b>	5/29/2020 12:39
<b>Cadmium</b>	<b>0.48</b>		<b>0.028</b>	<b>0.19</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Chromium</b>	<b>20</b>		<b>0.20</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Copper</b>	<b>36</b>		<b>0.46</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Lead</b>	<b>16</b>		<b>0.22</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Nickel</b>	<b>17</b>		<b>0.24</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Selenium</b>	<b>1.2</b>		<b>0.43</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Silver</b>	<b>0.15</b>	J	<b>0.061</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>Zinc</b>	<b>60</b>		<b>0.91</b>	<b>0.93</b>	<b>mg/Kg-dry</b>	<b>1</b>	5/28/2020 19:47
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>			Prep: USDA Method 20B / 5/29/20	Analyst: <b>STP</b>
<b>Calcium</b>	<b>200</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	5/29/2020 13:16
<b>Magnesium</b>	<b>9.3</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	5/29/2020 13:16
<b>Sodium</b>	<b>870</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	5/29/2020 13:16
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>			Prep: USDA Method 20B / 5/29/20	Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>16</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	5/29/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW8270E</b>			Prep: SW3546 / 5/27/20	Analyst: <b>EEW</b>
Acenaphthene	U		0.00098	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Benzo(a)anthracene	U		0.0021	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	5/27/2020 21:50
Fluoranthene	U		0.00093	0.0050	mg/Kg-dry	1	5/27/2020 21:50

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 01-Jun-20

**Client:** Caerus Oil and Gas LLC  
**Project:** E34-496 Cuttings  
**Sample ID:** 20200520-E34-496 (CUTW)  
**Collection Date:** 5/20/2020 10:30 AM

**Work Order:** 20051847  
**Lab ID:** 20051847-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Fluorene</b>	<b>0.032</b>		<b>0.0017</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 21:50
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	5/27/2020 21:50
<b>Naphthalene</b>	<b>0.10</b>		<b>0.0022</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 21:50
<b>Pyrene</b>	<b>0.014</b>		<b>0.00083</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 21:50
Surr: 2-Fluorobiphenyl	112			20-140	%REC	1	5/27/2020 21:50
Surr: 4-Terphenyl-d14	89.3			22-172	%REC	1	5/27/2020 21:50
Surr: Nitrobenzene-d5	93.2			28-140	%REC	1	5/27/2020 21:50
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 5/27/20		Analyst: <b>SJB</b>
<b>Benzene</b>	<b>0.69</b>		<b>0.0067</b>	<b>0.039</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
<b>Ethylbenzene</b>	<b>0.054</b>		<b>0.0083</b>	<b>0.039</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
<b>m,p-Xylene</b>	<b>0.29</b>		<b>0.052</b>	<b>0.079</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
<b>o-Xylene</b>	<b>0.049</b>		<b>0.015</b>	<b>0.039</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
<b>Toluene</b>	<b>0.95</b>		<b>0.011</b>	<b>0.039</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
<b>Xylenes, Total</b>	<b>0.34</b>		<b>0.052</b>	<b>0.12</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:28
Surr: 1,2-Dichloroethane-d4	95.3			70-130	%REC	1	5/28/2020 17:28
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	5/28/2020 17:28
Surr: Dibromofluoromethane	94.1			70-130	%REC	1	5/28/2020 17:28
Surr: Toluene-d8	87.5			70-130	%REC	1	5/28/2020 17:28
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 5/29/20		Analyst: <b>QTN</b>
<b>Electrical Conductivity @ Saturation</b>	<b>5.2</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	20	5/29/2020 15:47
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JB</b>
<b>Chromium, Trivalent</b>	<b>20</b>		<b>1.0</b>	<b>1.2</b>	<b>mg/Kg-dry</b>	1	5/29/2020 12:40
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 5/28/20		Analyst: <b>KTP</b>
<b>Chromium, Hexavalent</b>	U		0.99	1.2	mg/Kg-dry	1	5/29/2020 11:30
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
<b>Moisture</b>	<b>18</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	1	5/27/2020 10:14
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 5/27/20		Analyst: <b>QTN</b>
<b>pH</b>	<b>8.26</b>		<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	1	5/28/2020 13:43
<b>Temperature</b>	<b>20.5</b>		<b>0.10</b>	<b>0.100</b>	<b>°C</b>	1	5/28/2020 13:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 01-Jun-20

Client: Caerus Oil and Gas LLC  
Project: E34-496 Cuttings  
Sample ID: 20200520-E34-496 (CUTMID)  
Collection Date: 5/20/2020 10:45 AM

Work Order: 20051847  
Lab ID: 20051847-02  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>			Prep: SW3550 / 5/27/20	Analyst: <b>JZB</b>
<b>DRO (C10-C28)</b>	<b>160</b>		<b>17</b>	<b>60</b>	<b>mg/Kg-dry</b>	5	5/29/2020 01:41
Surr: 4-Terphenyl-d14	83.2			33-111	%REC	5	5/29/2020 01:41
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>			Prep: SW5035 / 5/27/20	Analyst: <b>JZB</b>
<b>GRO (C6-C10)</b>	<b>8.7</b>		<b>3.0</b>	<b>7.2</b>	<b>mg/Kg</b>	1	5/30/2020 04:11
Surr: Toluene-d8	88.9			71-123	%REC	1	5/30/2020 04:11
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>			Prep: SW7471 / 5/28/20	Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.14</b>		<b>0.013</b>	<b>0.019</b>	<b>mg/Kg-dry</b>	1	5/28/2020 14:12
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>			Prep: SW3050B / 5/28/20	Analyst: <b>STP</b>
<b>Arsenic</b>	<b>5.2</b>		<b>0.050</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Barium</b>	<b>750</b>		<b>3.8</b>	<b>4.1</b>	<b>mg/Kg-dry</b>	10	5/29/2020 12:40
<b>Cadmium</b>	<b>0.35</b>		<b>0.025</b>	<b>0.17</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Chromium</b>	<b>18</b>		<b>0.18</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Copper</b>	<b>27</b>		<b>0.41</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Lead</b>	<b>15</b>		<b>0.20</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Nickel</b>	<b>14</b>		<b>0.22</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Selenium</b>	<b>0.63</b>		<b>0.38</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Silver</b>	<b>0.13</b>	J	<b>0.055</b>	<b>0.41</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>Zinc</b>	<b>60</b>		<b>0.81</b>	<b>0.83</b>	<b>mg/Kg-dry</b>	1	5/28/2020 19:49
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>			Prep: USDA Method 20B / 5/29/20	Analyst: <b>STP</b>
<b>Calcium</b>	<b>86</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	5/29/2020 13:17
<b>Magnesium</b>	<b>6.5</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	5/29/2020 13:17
<b>Sodium</b>	<b>660</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	5/29/2020 13:17
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>			Prep: USDA Method 20B / 5/29/20	Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>18</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	5/29/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW8270E</b>			Prep: SW3546 / 5/27/20	Analyst: <b>EEW</b>
Acenaphthene	U		0.00097	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Benzo(a)anthracene	U		0.0021	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	5/27/2020 22:06
Fluoranthene	U		0.00092	0.0050	mg/Kg-dry	1	5/27/2020 22:06

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group, USA

Date: 01-Jun-20

**Client:** Caerus Oil and Gas LLC  
**Project:** E34-496 Cuttings  
**Sample ID:** 20200520-E34-496 (CUTMID)  
**Collection Date:** 5/20/2020 10:45 AM

**Work Order:** 20051847  
**Lab ID:** 20051847-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Fluorene</b>	<b>0.036</b>		<b>0.0017</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:06
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	5/27/2020 22:06
<b>Naphthalene</b>	<b>0.19</b>		<b>0.0022</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:06
<b>Pyrene</b>	<b>0.017</b>		<b>0.00083</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:06
Surr: 2-Fluorobiphenyl	111			20-140	%REC	1	5/27/2020 22:06
Surr: 4-Terphenyl-d14	88.9			22-172	%REC	1	5/27/2020 22:06
Surr: Nitrobenzene-d5	90.9			28-140	%REC	1	5/27/2020 22:06
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 5/27/20		Analyst: <b>SJB</b>
<b>Benzene</b>	<b>0.58</b>		<b>0.0074</b>	<b>0.043</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
<b>Ethylbenzene</b>	<b>0.063</b>		<b>0.0091</b>	<b>0.043</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
<b>m,p-Xylene</b>	<b>0.34</b>		<b>0.058</b>	<b>0.086</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
<b>o-Xylene</b>	<b>0.071</b>		<b>0.017</b>	<b>0.043</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
<b>Toluene</b>	<b>0.97</b>		<b>0.012</b>	<b>0.043</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
<b>Xylenes, Total</b>	<b>0.41</b>		<b>0.058</b>	<b>0.13</b>	<b>mg/Kg-dry</b>	1	5/28/2020 17:46
Surr: 1,2-Dichloroethane-d4	97.9			70-130	%REC	1	5/28/2020 17:46
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	5/28/2020 17:46
Surr: Dibromofluoromethane	92.0			70-130	%REC	1	5/28/2020 17:46
Surr: Toluene-d8	89.3			70-130	%REC	1	5/28/2020 17:46
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 5/29/20		Analyst: <b>QTN</b>
<b>Electrical Conductivity @ Saturation</b>	<b>3.5</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	20	5/29/2020 15:47
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JB</b>
<b>Chromium, Trivalent</b>	<b>18</b>		<b>1.0</b>	<b>1.2</b>	<b>mg/Kg-dry</b>	1	5/29/2020 12:40
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 5/28/20		Analyst: <b>KTP</b>
<b>Chromium, Hexavalent</b>	U		1.0	1.2	mg/Kg-dry	1	5/29/2020 11:30
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
<b>Moisture</b>	<b>18</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	1	5/27/2020 10:14
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 5/27/20		Analyst: <b>QTN</b>
<b>pH</b>	<b>8.85</b>		<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	1	5/28/2020 13:43
<b>Temperature</b>	<b>20.6</b>		<b>0.10</b>	<b>0.100</b>	<b>°C</b>	1	5/28/2020 13:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 01-Jun-20

Client: Caerus Oil and Gas LLC  
Project: E34-496 Cuttings  
Sample ID: 20200520-E34-496 (CUTE)  
Collection Date: 5/20/2020 11:00 AM

Work Order: 20051847  
Lab ID: 20051847-03  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: SW8015D		Prep: SW3550 / 5/27/20		Analyst: JZB
DRO (C10-C28)	130		18	61	mg/Kg-dry	5	5/29/2020 10:48
Surr: 4-Terphenyl-d14	253	S		33-111	%REC	5	5/29/2020 10:48
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: SW8015D		Prep: SW5035 / 5/27/20		Analyst: JZB
GRO (C6-C10)	90		3.2	7.6	mg/Kg	1	6/1/2020 11:40
Surr: Toluene-d8	86.9			71-123	%REC	1	6/1/2020 11:40
<b>MERCURY BY CVAA</b>							
			Method: SW7471B		Prep: SW7471 / 5/28/20		Analyst: MAC
Mercury	0.18		0.014	0.020	mg/Kg-dry	1	5/28/2020 14:14
<b>METALS BY ICP-MS</b>							
			Method: SW6020B		Prep: SW3050B / 5/28/20		Analyst: STP
Arsenic	7.0		0.054	0.45	mg/Kg-dry	1	5/28/2020 19:50
Barium	840		4.2	4.5	mg/Kg-dry	10	5/29/2020 12:42
Cadmium	0.47		0.027	0.18	mg/Kg-dry	1	5/28/2020 19:50
Chromium	22		0.20	0.45	mg/Kg-dry	1	5/28/2020 19:50
Copper	28		0.45	0.45	mg/Kg-dry	1	5/28/2020 19:50
Lead	14		0.22	0.45	mg/Kg-dry	1	5/28/2020 19:50
Nickel	15		0.24	0.45	mg/Kg-dry	1	5/28/2020 19:50
Selenium	0.83		0.42	0.45	mg/Kg-dry	1	5/28/2020 19:50
Silver	0.18	J	0.060	0.45	mg/Kg-dry	1	5/28/2020 19:50
Zinc	64		0.89	0.91	mg/Kg-dry	1	5/28/2020 19:50
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: SW6020B		Prep: USDA Method 20B / 5/29/20		Analyst: STP
Calcium	130		2.5	5.0	mg/L	10	5/29/2020 13:19
Magnesium	2.3		0.50	2.0	mg/L	10	5/29/2020 13:19
Sodium	520		0.45	2.0	mg/L	10	5/29/2020 13:19
<b>SODIUM ADSORPTION RATIO</b>							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/29/20		Analyst: STP
Sodium Adsorption Ratio	12		0.010	0.010	none	1	5/29/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: SW8270E		Prep: SW3546 / 5/27/20		Analyst: EEW
Acenaphthene	U		0.00098	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Anthracene	U		0.0017	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Benzo(a)anthracene	U		0.0021	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Benzo(a)pyrene	U		0.0014	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Benzo(b)fluoranthene	U		0.0012	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Benzo(k)fluoranthene	U		0.0015	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Chrysene	U		0.0010	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Dibenzo(a,h)anthracene	U		0.0012	0.0051	mg/Kg-dry	1	5/27/2020 22:21
Fluoranthene	U		0.00093	0.0051	mg/Kg-dry	1	5/27/2020 22:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 01-Jun-20

**Client:** Caerus Oil and Gas LLC  
**Project:** E34-496 Cuttings  
**Sample ID:** 20200520-E34-496 (CUTE)  
**Collection Date:** 5/20/2020 11:00 AM

**Work Order:** 20051847  
**Lab ID:** 20051847-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Fluorene</b>	<b>0.048</b>		<b>0.0017</b>	<b>0.0051</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:21
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0051	mg/Kg-dry	1	5/27/2020 22:21
<b>Naphthalene</b>	<b>0.32</b>		<b>0.0022</b>	<b>0.0051</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:21
<b>Pyrene</b>	<b>0.0086</b>		<b>0.00084</b>	<b>0.0051</b>	<b>mg/Kg-dry</b>	1	5/27/2020 22:21
Surr: 2-Fluorobiphenyl	94.9			20-140	%REC	1	5/27/2020 22:21
Surr: 4-Terphenyl-d14	68.4			22-172	%REC	1	5/27/2020 22:21
Surr: Nitrobenzene-d5	71.9			28-140	%REC	1	5/27/2020 22:21
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 5/27/20		Analyst: <b>SJB</b>
<b>Benzene</b>	<b>0.76</b>		<b>0.0078</b>	<b>0.045</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
<b>Ethylbenzene</b>	<b>0.069</b>		<b>0.0096</b>	<b>0.045</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
<b>m,p-Xylene</b>	<b>0.36</b>		<b>0.061</b>	<b>0.091</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
<b>o-Xylene</b>	<b>0.080</b>		<b>0.018</b>	<b>0.045</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
<b>Toluene</b>	<b>1.0</b>		<b>0.012</b>	<b>0.045</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
<b>Xylenes, Total</b>	<b>0.44</b>		<b>0.061</b>	<b>0.14</b>	<b>mg/Kg-dry</b>	1	5/28/2020 18:03
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	5/28/2020 18:03
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	5/28/2020 18:03
Surr: Dibromofluoromethane	90.0			70-130	%REC	1	5/28/2020 18:03
Surr: Toluene-d8	89.1			70-130	%REC	1	5/28/2020 18:03
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 5/29/20		Analyst: <b>QTN</b>
<b>Electrical Conductivity @ Saturation</b>	<b>3.2</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	20	5/29/2020 15:47
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JB</b>
<b>Chromium, Trivalent</b>	<b>22</b>		<b>1.1</b>	<b>1.2</b>	<b>mg/Kg-dry</b>	1	5/29/2020 12:40
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 5/28/20		Analyst: <b>KTP</b>
<b>Chromium, Hexavalent</b>	U		1.0	1.2	mg/Kg-dry	1	5/29/2020 11:30
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
<b>Moisture</b>	<b>20</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	1	5/27/2020 10:14
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 5/27/20		Analyst: <b>QTN</b>
<b>pH</b>	<b>10.8</b>		<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	1	5/28/2020 13:43
<b>Temperature</b>	<b>20.6</b>		<b>0.10</b>	<b>0.100</b>	<b>°C</b>	1	5/28/2020 13:43

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 20051847  
**Project:** E34-496 Cuttings

**QC BATCH REPORT**

Batch ID: **156537** Instrument ID **GC8** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>DBLKS1-156537-156537</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 02:21 AM</b>		
Client ID:		Run ID: <b>GC8_200528A</b>				SeqNo: <b>6445445</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	3.481	10								J
<i>Surr: 4-Terphenyl-d14</i>	2.42	0	3.33	0	72.7	33-111	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-156537-156537</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 03:00 AM</b>		
Client ID:		Run ID: <b>GC8_200528A</b>				SeqNo: <b>6445446</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	304.3	10	333	0	91.4	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.528	0	3.33	0	75.9	33-111	0			

<b>MS</b>		Sample ID: <b>20051847-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 05:36 AM</b>		
Client ID: <b>20200520-E34-496 (CUTW)</b>		Run ID: <b>GC8_200528A</b>				SeqNo: <b>6446563</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	374.6	9.9	329	70.57	92.4	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	6.441	0	3.29	0	196	33-111	0			S

<b>MSD</b>		Sample ID: <b>20051847-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 06:15 AM</b>		
Client ID: <b>20200520-E34-496 (CUTW)</b>		Run ID: <b>GC8_200528A</b>				SeqNo: <b>6446564</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	358.1	9.7	324.6	70.57	88.6	80-121	374.6	4.49	30	
<i>Surr: 4-Terphenyl-d14</i>	5.117	0	3.246	0	158	33-111	6.441	22.9	30	S

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156719** Instrument ID **GC9** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-156719-156719</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/30/2020 12:50 AM</b>		
Client ID:		Run ID: <b>GC9_200529B</b>				SeqNo: <b>6448991</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000								
Surr: Toluene-d8	4736	0	5000	0	94.7	71-123	0			

<b>LCS</b>		Sample ID: <b>LCS-156719-156719</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/30/2020 04:55 AM</b>		
Client ID:		Run ID: <b>GC9_200529B</b>				SeqNo: <b>6449002</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	245900	5,000	250000	0	98.4	71-123	0			
Surr: Toluene-d8	4318	0	5000	0	86.4	71-123	0			

<b>MS</b>		Sample ID: <b>20051846-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/1/2020 10:34 AM</b>		
Client ID:		Run ID: <b>GC9_200601A</b>				SeqNo: <b>6450837</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	370500	6,900	346100	27910	99	71-123	0			
Surr: Toluene-d8	6135	0	6921	0	88.6	71-123	0			

<b>MSD</b>		Sample ID: <b>20051846-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/1/2020 10:56 AM</b>		
Client ID:		Run ID: <b>GC9_200601A</b>				SeqNo: <b>6450838</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	403000	6,900	343900	27910	109	71-123	370500	8.4	30	
Surr: Toluene-d8	6031	0	6877	0	87.7	71-123	6135	1.72	30	

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156596** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-156596-156596</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 01:51 PM</b>		
Client ID:		Run ID: <b>HG4_200528A</b>				SeqNo: <b>6443543</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

<b>LCS</b>		Sample ID: <b>LCS-156596-156596</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 01:53 PM</b>		
Client ID:		Run ID: <b>HG4_200528A</b>				SeqNo: <b>6443544</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.18 0.020 0.1665 0 108 80-120 0

<b>MS</b>		Sample ID: <b>20051611-01CMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 01:57 PM</b>		
Client ID:		Run ID: <b>HG4_200528A</b>				SeqNo: <b>6443546</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.3857 0.016 0.1359 0.2291 115 75-125 0 E

<b>MSD</b>		Sample ID: <b>20051611-01CMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 01:59 PM</b>		
Client ID:		Run ID: <b>HG4_200528A</b>				SeqNo: <b>6443547</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.3489 0.016 0.1348 0.2291 88.8 75-125 0.3857 10 35 E

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156611** Instrument ID **ICPMS3** Method: **SW6020B**

<b>MBLK</b>		Sample ID: <b>MBLK-156611-156611</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 07:42 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200528B</b>				SeqNo: <b>6445264</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Chromium	U	0.25								
Copper	U	0.25								
Lead	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Zinc	U	0.50								

<b>LCS</b>		Sample ID: <b>LCS-156611-156611</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 07:43 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200528B</b>				SeqNo: <b>6445265</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.98	0.25	5	0	99.6	80-120	0			
Barium	5.167	0.25	5	0	103	80-120	0			
Cadmium	5.267	0.10	5	0	105	80-120	0			
Chromium	5.1	0.25	5	0	102	80-120	0			
Copper	5.162	0.25	5	0	103	80-120	0			
Lead	5.144	0.25	5	0	103	80-120	0			
Nickel	4.897	0.25	5	0	97.9	80-120	0			
Selenium	4.977	0.25	5	0	99.5	80-120	0			
Silver	4.966	0.25	5	0	99.3	80-120	0			
Zinc	5.164	0.50	5	0	103	80-120	0			

<b>MS</b>		Sample ID: <b>20051848-05AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 08:06 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200528B</b>				SeqNo: <b>6445278</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.299	0.33	6.527	4.048	80.4	75-125	0			
Cadmium	5.852	0.13	6.527	0.1831	86.8	75-125	0			
Chromium	16.47	0.33	6.527	10.99	84	75-125	0			
Copper	13.62	0.33	6.527	9.065	69.8	75-125	0			S
Lead	12.39	0.33	6.527	6.632	88.3	75-125	0			
Nickel	14.35	0.33	6.527	8.974	82.3	75-125	0			
Selenium	5.715	0.33	6.527	0.3169	82.7	75-125	0			
Silver	5.314	0.33	6.527	0.03611	80.9	75-125	0			
Zinc	29.55	0.65	6.527	34.8	-80.5	75-125	0			SO

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156611** Instrument ID **ICPMS3** Method: **SW6020B**

<b>MS</b>		Sample ID: <b>20051848-05AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 12:56 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200529B</b>				SeqNo: <b>6446614</b>		Prep Date: <b>5/28/2020</b>		DF: <b>100</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	973.1	33	6.527	1087	-1740	75-125	0			SO

<b>MSD</b>		Sample ID: <b>20051848-05AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/28/2020 08:08 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200528B</b>				SeqNo: <b>6445279</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.492	0.33	6.502	4.048	68.4	75-125	9.299	9.06	20	S
Cadmium	5.947	0.13	6.502	0.1831	88.7	75-125	5.852	1.62	20	
Chromium	16.12	0.33	6.502	10.99	78.9	75-125	16.47	2.13	20	
Copper	13.95	0.33	6.502	9.065	75.1	75-125	13.62	2.36	20	
Lead	12.46	0.33	6.502	6.632	89.6	75-125	12.39	0.521	20	
Nickel	12.62	0.33	6.502	8.974	56.1	75-125	14.35	12.8	20	S
Selenium	5.754	0.33	6.502	0.3169	83.6	75-125	5.715	0.684	20	
Silver	5.436	0.33	6.502	0.03611	83	75-125	5.314	2.27	20	
Zinc	27.45	0.65	6.502	34.8	-113	75-125	29.55	7.36	20	SO

<b>MSD</b>		Sample ID: <b>20051848-05AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 12:58 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200529B</b>				SeqNo: <b>6446615</b>		Prep Date: <b>5/28/2020</b>		DF: <b>100</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	890.1	33	6.502	1087	-3020	75-125	973.1	8.9	20	SO

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Caerus Oil and Gas LLC  
**Work Order:** 20051847  
**Project:** E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156658** Instrument ID **ICPMS3** Method: **SW6020B**

<b>DUP</b>		Sample ID: <b>20051847-03BDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>5/29/2020 01:20 PM</b>		
Client ID: <b>20200520-E34-496 (CUTE)</b>		Run ID: <b>ICPMS3_200529A</b>				SeqNo: <b>6446808</b>		Prep Date: <b>5/29/2020</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	136.2	5.0	0	0	0	0-0	134.1	1.55		
Magnesium	2.074	2.0	0	0	0	0-0	2.339	12		
Sodium	546.3	2.0	0	0	0	0-0	523.3	4.3		

The following samples were analyzed in this batch:

20051847-01B	20051847-02B	20051847-03B
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Batch ID: **156658** Instrument ID **SAR** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>20051847-03BDUP</b>				Units: <b>none</b>		Analysis Date: <b>5/29/2020</b>		
Client ID: <b>20200520-E34-496 (CUTE)</b>		Run ID: <b>SAR_200529A</b>				SeqNo: <b>6446951</b>		Prep Date: <b>5/29/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	12.73	0.010	0	0	0		12.27	3.7	50	

The following samples were analyzed in this batch:

20051847-01B	20051847-02B	20051847-03B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156525** Instrument ID **SVMS6** Method: **SW8270E**

MBLK		Sample ID: <b>SBLKS1-156525-156525</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/27/2020 05:58 PM</b>		
Client ID:		Run ID: <b>SVMS6_200527A</b>				SeqNo: <b>6442783</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	3436	0	3333	0	103	20-140	0			
Surr: 4-Terphenyl-d14	3754	0	3333	0	113	22-172	0			
Surr: Nitrobenzene-d5	3271	0	3333	0	98.1	28-140	0			

LCS		Sample ID: <b>SLCSS1-156525-156525</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>5/27/2020 06:13 PM</b>		
Client ID:		Run ID: <b>SVMS6_200527A</b>				SeqNo: <b>6442784</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1236	4.2	1333	0	92.7	40-140	0			
Anthracene	1381	4.2	1333	0	104	40-140	0			
Benzo(a)anthracene	1351	4.2	1333	0	101	40-140	0			
Benzo(a)pyrene	1339	4.2	1333	0	100	40-140	0			
Benzo(b)fluoranthene	1198	4.2	1333	0	89.9	40-140	0			
Benzo(k)fluoranthene	1286	4.2	1333	0	96.5	40-140	0			
Chrysene	1337	4.2	1333	0	100	40-140	0			
Dibenzo(a,h)anthracene	1189	4.2	1333	0	89.2	40-140	0			
Fluoranthene	1430	4.2	1333	0	107	40-140	0			
Fluorene	1304	4.2	1333	0	97.8	40-140	0			
Indeno(1,2,3-cd)pyrene	1148	4.2	1333	0	86.2	40-140	0			
Naphthalene	1332	4.2	1333	0	99.9	40-140	0			
Pyrene	1375	4.2	1333	0	103	40-140	0			
Surr: 2-Fluorobiphenyl	1201	0	3333	0	36	20-140	0			
Surr: 4-Terphenyl-d14	3922	0	3333	0	118	22-172	0			
Surr: Nitrobenzene-d5	2682	0	3333	0	80.5	28-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156525** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: <b>20051811-04A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/27/2020 06:29 PM</b>	
Client ID:		Run ID: <b>SVMS6_200527A</b>			SeqNo: <b>6442785</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1298	4.2	1329	0	97.7	40-140	0			
Anthracene	1433	4.2	1329	0	108	40-140	0			
Benzo(a)anthracene	1394	4.2	1329	0	105	40-140	0			
Benzo(a)pyrene	1417	4.2	1329	0	107	40-140	0			
Benzo(b)fluoranthene	1289	4.2	1329	0	97	40-140	0			
Benzo(k)fluoranthene	1386	4.2	1329	0	104	40-140	0			
Chrysene	1367	4.2	1329	0	103	40-140	0			
Dibenzo(a,h)anthracene	1229	4.2	1329	0	92.5	40-140	0			
Fluoranthene	1464	4.2	1329	0	110	40-140	0			
Fluorene	1346	4.2	1329	0	101	40-140	0			
Indeno(1,2,3-cd)pyrene	1009	4.2	1329	0	75.9	40-140	0			
Naphthalene	1421	4.2	1329	0	107	40-140	0			
Pyrene	1384	4.2	1329	0	104	40-140	0			
Surr: 2-Fluorobiphenyl	3627	0	3323	0	109	20-140	0			
Surr: 4-Terphenyl-d14	4002	0	3323	0	120	22-172	0			
Surr: Nitrobenzene-d5	3115	0	3323	0	93.7	28-140	0			

MSD				Sample ID: <b>20051811-04A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>5/27/2020 06:44 PM</b>	
Client ID:		Run ID: <b>SVMS6_200527A</b>			SeqNo: <b>6442786</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1265	4.1	1324	0	95.5	40-140	1298	2.62	30	
Anthracene	1392	4.1	1324	0	105	40-140	1433	2.85	30	
Benzo(a)anthracene	1355	4.1	1324	0	102	40-140	1394	2.84	30	
Benzo(a)pyrene	1386	4.1	1324	0	105	40-140	1417	2.19	30	
Benzo(b)fluoranthene	1246	4.1	1324	0	94.1	40-140	1289	3.4	30	
Benzo(k)fluoranthene	1348	4.1	1324	0	102	40-140	1386	2.81	30	
Chrysene	1338	4.1	1324	0	101	40-140	1367	2.14	30	
Dibenzo(a,h)anthracene	1211	4.1	1324	0	91.5	40-140	1229	1.49	30	
Fluoranthene	1439	4.1	1324	0	109	40-140	1464	1.68	30	
Fluorene	1320	4.1	1324	0	99.7	40-140	1346	1.91	30	
Indeno(1,2,3-cd)pyrene	1119	4.1	1324	0	84.5	40-140	1009	10.2	30	
Naphthalene	1387	4.1	1324	0	105	40-140	1421	2.36	30	
Pyrene	1384	4.1	1324	0	104	40-140	1384	0.065	30	
Surr: 2-Fluorobiphenyl	3532	0	3311	0	107	20-140	3627	2.64	0	
Surr: 4-Terphenyl-d14	4049	0	3311	0	122	22-172	4002	1.17	0	
Surr: Nitrobenzene-d5	3056	0	3311	0	92.3	28-140	3115	1.93	0	

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

# QC BATCH REPORT

Batch ID: **156546** Instrument ID **VMS10** Method: **SW8260C**

<b>MBLK</b>		Sample ID: <b>MBLK-156546-156546</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/27/2020 02:01 PM</b>		
Client ID:		Run ID: <b>VMS10_200527A</b>				SeqNo: <b>6442628</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	993	0	1000	0	99.3	70-130	0			
Surr: 4-Bromofluorobenzene	939.5	0	1000	0	94	70-130	0			
Surr: Dibromofluoromethane	990	0	1000	0	99	70-130	0			
Surr: Toluene-d8	930	0	1000	0	93	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-156546-156546</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/27/2020 01:09 PM</b>		
Client ID:		Run ID: <b>VMS10_200527A</b>				SeqNo: <b>6442627</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1033	30	1000	0	103	75-125	0			
Ethylbenzene	863.5	30	1000	0	86.4	75-125	0			
m,p-Xylene	1720	60	2000	0	86	80-125	0			
o-Xylene	839.5	30	1000	0	84	75-125	0			
Toluene	959.5	30	1000	0	96	70-125	0			
Xylenes, Total	2560	90	3000	0	85.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	984.5	0	1000	0	98.4	70-130	0			
Surr: 4-Bromofluorobenzene	996.5	0	1000	0	99.6	70-130	0			
Surr: Dibromofluoromethane	1032	0	1000	0	103	70-130	0			
Surr: Toluene-d8	918.5	0	1000	0	91.8	70-130	0			

<b>MS</b>		Sample ID: <b>20051846-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/27/2020 09:12 PM</b>		
Client ID:		Run ID: <b>VMS10_200527A</b>				SeqNo: <b>6442638</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1475	42	1384	0	107	75-125	0			
Ethylbenzene	1247	42	1384	0	90	75-125	0			
m,p-Xylene	2535	83	2769	81.88	88.6	80-125	0			
o-Xylene	1242	42	1384	20.15	88.2	75-125	0			
Toluene	1345	42	1384	0	97.2	70-125	0			
Xylenes, Total	3777	120	4153	102	88.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	1378	0	1384	0	99.5	70-130	0			
Surr: 4-Bromofluorobenzene	1394	0	1384	0	101	70-130	0			
Surr: Dibromofluoromethane	1331	0	1384	0	96.2	70-130	0			
Surr: Toluene-d8	1270	0	1384	0	91.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 20051847  
**Project:** E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156546**      Instrument ID **VMS10**      Method: **SW8260C**

MSD		Sample ID: <b>20051846-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>5/27/2020 09:29 PM</b>		
Client ID:		Run ID: <b>VMS10_200527A</b>				SeqNo: <b>6442639</b>		Prep Date: <b>5/27/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1406	41	1375	0	102	75-125	1475	4.76	30	
Ethylbenzene	1230	41	1375	0	89.4	75-125	1247	1.31	30	
m,p-Xylene	2468	83	2751	81.88	86.7	80-125	2535	2.71	30	
o-Xylene	1237	41	1375	20.15	88.5	75-125	1242	0.361	30	
Toluene	1351	41	1375	0	98.2	70-125	1345	0.435	30	
Xylenes, Total	3705	120	4126	102	87.3	75-125	3777	1.93	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1349	0	1375	0	98.1	70-130	1378	2.11	30	
<i>Surr: 4-Bromofluorobenzene</i>	1473	0	1375	0	107	70-130	1394	5.52	30	
<i>Surr: Dibromofluoromethane</i>	1369	0	1375	0	99.5	70-130	1331	2.78	30	
<i>Surr: Toluene-d8</i>	1283	0	1375	0	93.3	70-130	1270	1.03	30	

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Caerus Oil and Gas LLC  
**Work Order:** 20051847  
**Project:** E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156567** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-156567-156567					Units: s.u.			Analysis Date: 5/28/2020 01:43 PM				
Client ID:					Run ID: WETCHEM_200528G					SeqNo: 6443417			Prep Date: 5/27/2020			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.95		0.10	4	0	98.8		90-110	0				

DUP				Sample ID: 20051847-01A DUP				Units: s.u.			Analysis Date: 5/28/2020 01:43 PM		
Client ID: 20200520-E34-496 (CUTW)				Run ID: WETCHEM_200528G				SeqNo: 6443419		Prep Date: 5/27/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH	8.28	0.10	0	0	0	0-0	8.26	0.242	20				
Temperature	20.6	0.10	0	0	0		20.5	0.487					

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **156606** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-156606-156606</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_200529B</b>		SeqNo: <b>6446346</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

<b>LCS</b>		Sample ID: <b>LCS-156606-156606</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_200529B</b>		SeqNo: <b>6446347</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.01 1.0 5 0 100 80-120 0

<b>MS</b>		Sample ID: <b>20051847-03A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 11:30 AM</b>		
Client ID: <b>20200520-E34-496 (CUTE)</b>		Run ID: <b>WETCHEM_200529B</b>		SeqNo: <b>6446351</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.9029 0.97 4.854 0.5392 7.49 75-125 0 JS

<b>MS</b>		Sample ID: <b>20051847-03A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 11:30 AM</b>		
Client ID: <b>20200520-E34-496 (CUTE)</b>		Run ID: <b>WETCHEM_200529B</b>		SeqNo: <b>6446353</b>		Prep Date: <b>5/28/2020</b>		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1217 97 1734 0.5392 70.1 75-125 0 S

<b>MSD</b>		Sample ID: <b>20051847-03A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>5/29/2020 11:30 AM</b>		
Client ID: <b>20200520-E34-496 (CUTE)</b>		Run ID: <b>WETCHEM_200529B</b>		SeqNo: <b>6446352</b>		Prep Date: <b>5/28/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.029 0.97 4.854 0.5392 10.1 75-125 0.9029 13.1 20 S

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Caerus Oil and Gas LLC  
 Work Order: 20051847  
 Project: E34-496 Cuttings

## QC BATCH REPORT

Batch ID: **R289419** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R289419				Units: % of sample		Analysis Date: 5/27/2020 10:14 AM		
Client ID:		Run ID: MOIST_200527B				SeqNo: 6442298		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.10

LCS		Sample ID: LCS-R289419					Units: % of sample		Analysis Date: 5/27/2020 10:14 AM		
Client ID:			Run ID: MOIST_200527B			SeqNo: 6442297		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.10 100 0 100 98-102 0

DUP				Sample ID: 20051666-03B DUP				Units: % of sample			Analysis Date: 5/27/2020 10:14 AM			
Client ID:				Run ID: MOIST_200527B				SeqNo: 6442277			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

Moisture 19.34 0.10 0 0 0 0-0 19.47 0.67 10

DUP				Sample ID: 20051666-05B DUP				Units: % of sample			Analysis Date: 5/27/2020 10:14 AM			
Client ID:				Run ID: MOIST_200527B				SeqNo: 6442279			Prep Date:		DF: 1	
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Moisture 16.27 0.10 0 0 0 0-0 18.05 10.4 10 R

The following samples were analyzed in this batch:

20051847-01A	20051847-02A	20051847-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.





Sample Receipt Checklist

Client Name: **CAERUS**

Date/Time Received: **23-May-20 09:00**

Work Order: **20051847**

Received by: **DS**

Checklist completed by **Diane Shaw**

27-May-20

Reviewed by: **Chad Whelton**

27-May-20

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): **4.4/4.4 c** **SR1**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **5/27/2020 7:52:35 AM**

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: