

**TABLE 1**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**DRILL SITE #5 WEST PIT**  
**HUERFANO COUNTY, COLORADO**  
**OCCIDENTAL PETROLEUM CORPORATION**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
<b>PIT SAMPLES</b>								
<b>SS01@1'</b>	2/2/2023	1	0.0	NS	NO	37.646904	-105.1794	Y
<b>SS01@3'</b>	2/2/2023	3	0.0	NS	NO	37.646904	-105.1794	Y
<b>SS02@1'</b>	2/2/2023	1	0.0	NS	NO	37.64686	-105.179431	Y
<b>SS02@3'</b>	2/2/2023	3	0.0	NS	NO	37.64686	-105.179431	Y
<b>BACKGROUND SOIL SAMPLES</b>								
<b>Native-BG01@3'</b>	8/24/2022	3	0.3	NS	NO	37.64803399	-105.1803568	Y
<b>Native-BG01@6'</b>	8/24/2022	6	0.2	NS	NO	37.64803399	-105.1803568	Y
<b>Native-BG02@3'</b>	8/24/2022	3	0.2	NS	NO	37.6476766	-105.1803856	Y
<b>Native-BG02@6'</b>	8/24/2022	6	0.0	NS	NO	37.6476766	-105.1803856	Y
<b>Native-BG03@3'</b>	8/24/2022	3	0.1	NS	NO	37.64770701	-105.1807184	Y
<b>Native-BG03@6'</b>	8/24/2022	6	0.0	NS	NO	37.64770701	-105.1807184	Y

**Notes:**

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1  
SOIL SAMPLE ANALYTICAL RESULTS  
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS  
DRILL SITE #5 WEST PIT  
HUERFANO COUNTY, COLORADO  
OCCIDENTAL PETROLEUM CORPORATION

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO <sup>+</sup> (mg/kg)	TPH-DRO <sup>+</sup> (mg/kg)	TPH-RRO <sup>+</sup> (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Residential Soil Screening Levels (RSSLs)			500	500	500	1.2	490	5.8	58	30	27	2
WELLHEAD EXCAVATION SAMPLES												
SS01@1'	2/2/2023	1	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
SS01@3'	2/2/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
SS02@1'	2/2/2023	1	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
SS02@3'	2/2/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	0.00700	<0.00200	<0.00201

TABLE 2-2  
SOIL SAMPLE ANALYTICAL RESULTS  
POLYCYCLIC AROMATIC HYDROCARBONS  
DRILL SITE #5 WEST PIT  
HUERFANO COUNTY, COLORADO  
OCCIDENTAL PETROLEUM CORPORATION

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Residential Soil Screening Levels (RSSLs)			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
WELLHEAD EXCAVATION SAMPLES																
SS01@1'	2/2/2023	1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000384	<0.00067	<0.00201	<0.00201	<0.00067
SS01@3'	2/2/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000384	<0.00067	<0.00201	<0.00201	<0.00067
SS02@1'	2/2/2023	1	<0.00067	0.0005	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000384	<0.00067	<0.00201	<0.00201	<0.00067
SS02@3'	2/2/2023	3	<0.00067	0.000614	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000384	<0.00067	<0.00201	<0.00201	<0.00067

TABLE 2-3  
SOIL SAMPLE ANALYTICAL RESULTS  
SOIL SUITABILITY FOR RECLAMATION  
DRILL SITE #5 WEST PIT  
HUERFANO COUNTY, COLORADO  
OCCIDENTAL PETROLEUM CORPORATION

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Residential Soil Screening Levels (RSSLs)			4	6	6-8.3	2
<b>WELLHEAD EXCAVATION SAMPLES</b>						
SS01@1'	2/2/2023	1	0.0887	0.230	7.04	<0.101
SS01@3'	2/2/2023	3	0.101	0.465	7.76	<0.101
SS02@1'	2/2/2023	1	0.096	0.187	6.73	<0.0996
SS02@3'	2/2/2023	3	0.079	0.407	7.15	<0.0992
<b>BACKGROUND SAMPLES</b>						
Native-BG01@3'	8/24/2022	3	2.75	2.27	7.52	0.230
Native-BG01@6'	8/24/2022	6	1.36	2.72	7.40	0.396
Native-BG02@3'	8/24/2022	3	0.450	2.15	7.82	0.393
Native-BG02@6'	8/24/2022	6	0.412	2.26	7.97	0.229
Native-BG03@3'	8/24/2022	3	0.0957	0.00	7.27	<0.0997
Native-BG03@6'	8/24/2022	6	0.281	1.13	8.09	0.214

**TABLE 2-4**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**METALS**  
**DRILL SITE #5 WEST PIT**  
**HUERFANO COUNTY, COLORADO**  
**OCCIDENTAL PETROLEUM CORPORATION**

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Residential Soil Screening Levels (RSSLs)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
<b>WELLHEAD EXCAVATION SAMPLES</b>												
<b>SS01@1'</b>	2/2/2023	1	6.19*	193	0.149	<2.5	19.4	21.0	17.5	0.130	<0.0977	<97.7
<b>SS01@3'</b>	2/2/2023	3	6.64*	159	0.150	<0.507	19.9	15.9	20.9	0.214	<0.0949	<94.9
<b>SS02@1'</b>	2/2/2023	1	5.11*	196	0.155	<1.03	18.1	17.7	17.0	0.124	0.101	<92.4
<b>SS02@3'</b>	2/2/2023	3	5.85*	208	0.121	<0.5	20.4	15.9	20.2	0.126	<0.0884	<88.4
<b>BACKGROUND SAMPLES</b>												
<b>Native-BG01@3'</b>	8/24/2022	3	6.47	164	0.238	<5.09	15.8	14.6	14.9	0.248	<0.0939	<93.9
<b>Native-BG01@6'</b>	8/24/2022	6	11.0	152	0.123	<5.2	17.8	15.3	16.8	0.297	<0.0716	<71.6
<b>Native-BG02@3'</b>	8/24/2022	3	8.90	175	0.123	<5.04	16.8	14.3	18.4	0.494	<0.0980	<98.0
<b>Native-BG02@6'</b>	8/24/2022	6	8.51	205	0.100	<0.5	21.1	19.0	20.6	0.329	<0.0927	<92.7
<b>Native-BG03@3'</b>	8/24/2022	3	4.64	175	<0.0937	<0.5	12.3	<9.37	12.3	0.100	<0.0937	<93.7
<b>Native-BG03@6'</b>	8/24/2022	6	7.81	194	<0.0837	<1	16.8	12.8	12.9	0.293	<0.0837	<83.7

TABLE 2-5  
SOIL SAMPLE ANALYTICAL RESULTS  
NOTES  
DRILL SITE #5 WEST PIT  
HUERFANO COUNTY, COLORADO  
OCCIDENTAL PETROLEUM CORPORATION

**Notes:**

RSSLs - Residential Soil Screening Levels (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

mg/kg - milligrams per kilogram

\*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

\*Exceeds Table 915-1 allowable level but below background

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

ft. bgs - feet below ground surface

**Bold** - exceeds Table 915-1 allowable level and background

February 14, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Drill Site #5 West Pit****Project Number - 09A1417291**

Attached are your analytical results for KMG - Drill Site #5 West Pit received by Origins Laboratory, Inc. February 03, 2023. This project is associated with Origins project number Y302091-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1'	Y302091-01	Soil	February 2, 2023 16:45	02/03/2023 17:45
SS01@3'	Y302091-02	Soil	February 2, 2023 16:50	02/03/2023 17:45
SS02@1'	Y302091-03	Soil	February 2, 2023 16:55	02/03/2023 17:45
SS02@3'	Y302091-04	Soil	February 2, 2023 17:00	02/03/2023 17:45

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 4302091

Client: ENSOLUM

Client Project ID: Drill Site #5 West Pit

Checklist Completed by: ISM/DE

Shipped Via: tlp  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/6/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1/0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 2/6/23

Origins Laboratory, Inc.

*J. Bynon*

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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@1'

2/2/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3B0608	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0605	02/06/2023	02/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.2 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0720	02/07/2023	02/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	144 %	70-130	"	"	"	S-GC
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@1'

2/2/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.0 %	70-130	B3B07 20	02/07/2023	02/07/2023
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.523	0.499	meq/L	10	[CALC]	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L662879	02/09/2023	02/09/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@1'

2/2/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y302091-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L662879	02/09/2023	02/09/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	35.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.04	pH Units	1	B3B0611	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.230	SAR	1	B3B0610	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0887	0.00500	mmhos/cm	1	B3B0611	02/06/2023	02/07/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.19	0.0977	mg/kg	10	B3B0613	02/06/2023	02/06/2023
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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@1'

2/2/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302091-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	193	9.77	mg/kg	10	B3B0613	02/06/2023	02/06/2023
Cadmium	0.149	0.0977	"	"	"	"	"
Copper	19.4	9.77	"	"	"	"	"
Lead	21.0	9.77	"	"	"	"	"
Nickel	17.5	9.77	"	"	"	"	"
Selenium	0.130	0.0977	"	"	"	"	"
Silver	ND	0.0977	"	"	"	"	"
Zinc	ND	97.7	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L663311	02/02/2023	02/09/2023
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11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@3'

2/2/2023 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3B0608	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0605	02/06/2023	02/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.9 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0720	02/07/2023	02/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	140 %	70-130	"	"	"	"	"	S-GC
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@3'

2/2/2023 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.9 %	70-130	B3B07 20	02/07/2023	02/07/2023
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.545	0.499	meq/L	10	[CALC]	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L662879	02/09/2023	02/09/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@3'

2/2/2023 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y302091-02 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L662879	02/09/2023	02/09/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	34.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.76	pH Units	1	B3B0611	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.165	SAR	1	B3B0610	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.101	0.00500	mmhos/cm	1	B3B0611	02/06/2023	02/07/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.64	0.0949	mg/kg	10	B3B0613	02/06/2023	02/06/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS01@3'

2/2/2023 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	159	9.49	mg/kg	10	B3B0613	02/06/2023	02/06/2023
Cadmium	0.150	0.0949	"	"	"	"	"
Copper	19.9	9.49	"	"	"	"	"
Lead	15.9	9.49	"	"	"	"	"
Nickel	20.9	9.49	"	"	"	"	"
Selenium	0.214	0.0949	"	"	"	"	"
Silver	ND	0.0949	"	"	"	"	"
Zinc	ND	94.9	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L663500	02/02/2023	02/13/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@1'

2/2/2023 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302091-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0996	mg/L	1	B3B0608	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0605	02/06/2023	02/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.0 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0720	02/07/2023	02/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	146 %	70-130	"	"	"	S-GC
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@1'

2/2/2023 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302091-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.4 %	70-130	B3B07 20	02/07/2023	02/07/2023
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L662879	02/09/2023	02/09/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	0.0005	0.000334	0.00067	"	"	"	"	" J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@1'

2/2/2023 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y302091-03 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L662879	02/09/2023	02/09/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	6.73	pH Units	1	B3B0611	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.187	SAR	1	B3B0610	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0961	0.00500	mmhos/cm	1	B3B0611	02/06/2023	02/07/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.11	0.0924	mg/kg	10	B3B0613	02/06/2023	02/06/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@1'

2/2/2023 4:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302091-03 (Soil)

## Table 915 metals by EPA 6020B

Barium	196	9.24	mg/kg	10	B3B0613	02/06/2023	02/06/2023
Cadmium	0.155	0.0924	"	"	"	"	"
Copper	18.1	9.24	"	"	"	"	"
Lead	17.7	9.24	"	"	"	"	"
Nickel	17.0	9.24	"	"	"	"	"
Selenium	0.124	0.0924	"	"	"	"	"
Silver	0.101	0.0924	"	"	"	"	"
Zinc	ND	92.4	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L663311	02/02/2023	02/09/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@3'

2/2/2023 5:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302091-04 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B3B0608	02/06/2023	02/07/2023	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0605	02/06/2023	02/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.2 %	50-150			"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0720	02/07/2023	02/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	138 %	70-130			"	"	"	S-GC
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## SS02@3'

2/2/2023 5:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y302091-04 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %	70-130	B3B07 20	02/07/2023	02/07/2023
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L662879	02/09/2023	02/09/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000614	0.000334	0.00067	"	"	"	"	" J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## SS02@3'

2/2/2023 5:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y302091-04 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L662879	02/09/2023	02/09/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.3 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.15	pH Units	1	B3B0611	02/06/2023	02/07/2023
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### SAR by 20B Saturated Paste

SAR	0.407	SAR	1	B3B0610	02/06/2023	02/07/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0788	0.00500	mmhos/cm	1	B3B0611	02/06/2023	02/07/2023
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### Table 915 metals by EPA 6020B

Arsenic	5.85	0.0884	mg/kg	10	B3B0613	02/06/2023	02/06/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

SS02@3'

2/2/2023 5:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302091-04 (Soil)

## Table 915 metals by EPA 6020B

Barium	208	8.84	mg/kg	10	B3B0613	02/06/2023	02/06/2023
Cadmium	0.212	0.0884	"	"	"	"	"
Copper	20.4	8.84	"	"	"	"	"
Lead	15.9	8.84	"	"	"	"	"
Nickel	20.2	8.84	"	"	"	"	"
Selenium	0.126	0.0884	"	"	"	"	"
Silver	ND	0.0884	"	"	"	"	"
Zinc	ND	88.4	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L663500	02/02/2023	02/13/2023
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Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B0605 - EPA 3580										
Blank (B3B0605-BLK1)					Prepared: 02/06/2023 Analyzed: 02/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.9	50-150			

Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B0605 - EPA 3580

LCS (B3B0605-BS1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

Diesel (C10-C28)	935	50.0	mg/kg	1000		93.5	70-130			
Residual Range Organics (C28-C40)	826	200	"	1000		82.6	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

Origins Laboratory, Inc.



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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B0605 - EPA 3580

Matrix Spike (B3B0605-MS1)		Source: Y302091-01			Prepared: 02/06/2023 Analyzed: 02/07/2023					
Diesel (C10-C28)	1220	50.0	mg/kg	1000	ND	122	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	50-150			

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11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B0605 - EPA 3580										
Matrix Spike Dup (B3B0605-MSD1)		Source: Y302091-01			Prepared: 02/06/2023 Analyzed: 02/07/2023					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130	9.67	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	10.6	35	
Surrogate: o-Terphenyl	43		"	49.8		87.0	50-150			

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Project: KMG - Drill Site #5 West Pit

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B0720 - EPA 5030 (soil)										
Blank (B3B0720-BLK1)					Prepared: 02/07/2023 Analyzed: 02/07/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Project: KMG - Drill Site #5 West Pit

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B0720 - EPA 5030 (soil)</b>										
<b>LCS (B3B0720-BS1)</b>					Prepared: 02/07/2023 Analyzed: 02/07/2023					
1,2,4-Trimethylbenzene	0.0914	0.00200	mg/kg	0.100		91.4	70-130			
1,3,5-Trimethylbenzene	0.0920	0.00200	"	0.100		92.0	70-130			
Benzene	0.0941	0.00200	"	0.100		94.1	70-130			
Ethylbenzene	0.0867	0.00200	"	0.100		86.7	70-130			
Naphthalene	0.0961	0.00380	"	0.100		96.1	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.0890	0.00200	"	0.100		89.0	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B0720 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3B0720-MS1)</b>	<b>Source: Y302091-01</b>				Prepared: 02/07/2023 Analyzed: 02/07/2023					
1,2,4-Trimethylbenzene	0.0790	0.00200	mg/kg	0.100	ND	79.0	70-130			
1,3,5-Trimethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
Benzene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
Ethylbenzene	0.0772	0.00200	"	0.100	ND	77.2	70-130			
Naphthalene	0.0922	0.00380	"	0.100	ND	92.2	70-130			
Toluene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
o-Xylene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
m,p-Xylene	0.157	0.00400	"	0.200	ND	78.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		135	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B0720 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3B0720-MSD1)</b>	<b>Source: Y302091-01</b>				Prepared: 02/07/2023 Analyzed: 02/07/2023					
1,2,4-Trimethylbenzene	0.0628	0.00200	mg/kg	0.100	ND	62.8	70-130	22.8	20	QM-07
1,3,5-Trimethylbenzene	0.0603	0.00200	"	0.100	ND	60.3	70-130	26.7	20	QM-07
Benzene	0.0677	0.00200	"	0.100	ND	67.7	70-130	21.9	20	QM-07
Ethylbenzene	0.0595	0.00200	"	0.100	ND	59.5	70-130	25.8	20	QM-07
Naphthalene	0.0818	0.00380	"	0.100	ND	81.8	70-130	12.0	20	
Toluene	0.0737	0.00200	"	0.100	ND	73.7	70-130	23.6	20	QM-07
o-Xylene	0.0625	0.00200	"	0.100	ND	62.5	70-130	24.4	20	QM-07
m,p-Xylene	0.122	0.00400	"	0.200	ND	60.9	70-130	25.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		139	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3B0613 - EPA 3050B

#### Blank (B3B0613-BLK1)

Prepared: 02/06/2023 Analyzed: 02/06/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

#### LCS (B3B0613-BS1)

Prepared: 02/06/2023 Analyzed: 02/06/2023

Arsenic	0.0493	0.000100	mg/kg	0.0500	98.6	80-120
Barium	4.87	0.0100	"	5.00	97.3	80-120
Cadmium	0.0511	0.000100	"	0.0500	102	80-120
Copper	0.501	0.0100	"	0.500	100	80-120
Lead	0.0502	0.0100	"	0.0500	100	80-120
Nickel	0.0504	0.0100	"	0.0500	101	80-120
Selenium	0.0475	0.000100	"	0.0500	95.0	80-120
Silver	0.0495	0.000100	"	0.0500	99.0	80-120
Zinc	0.488	0.100	"	0.500	97.6	80-120

#### Matrix Spike (B3B0613-MS1)

Source: Y302040-03

Prepared: 02/06/2023 Analyzed: 02/06/2023

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Project: KMG - Drill Site #5 West Pit

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3B0613 - EPA 3050B**

Matrix Spike (B3B0613-MS1)		Source: Y302040-03			Prepared: 02/06/2023 Analyzed: 02/06/2023					
Arsenic	5.54	0.0958	mg/kg	4.79	1.19	90.8	75-125			
Barium	519	9.58	"	479	46.4	98.6	75-125			
Cadmium	4.93	0.0958	"	4.79	0.131	100	75-125			
Copper	51.3	9.58	"	47.9	4.29	98.1	75-125			
Lead	10.5	9.58	"	4.79	6.71	79.8	75-125			
Nickel	7.40	9.58	"	4.79	2.72	97.5	75-125			
Selenium	4.25	0.0958	"	4.79	0.0711	87.1	75-125			
Silver	4.32	0.0958	"	4.79	0.0426	89.2	75-125			
Zinc	59.0	95.8	"	47.9	17.4	86.8	75-125			
Matrix Spike Dup (B3B0613-MSD1)		Source: Y302040-03			Prepared: 02/06/2023 Analyzed: 02/06/2023					
Arsenic	5.66	0.0960	mg/kg	4.80	1.19	93.0	75-125	2.04	20	QM-07, QR-DUP
Barium	536	9.60	"	480	46.4	102	75-125	3.13	20	
Cadmium	4.93	0.0960	"	4.80	0.131	99.9	75-125	0.120	20	
Copper	51.6	9.60	"	48.0	4.29	98.5	75-125	0.558	20	
Lead	11.8	9.60	"	4.80	6.71	106	75-125	11.3	20	
Nickel	9.35	9.60	"	4.80	2.72	138	75-125	23.4	20	
Selenium	4.26	0.0960	"	4.80	0.0711	87.2	75-125	0.234	20	
Silver	4.22	0.0960	"	4.80	0.0426	87.0	75-125	2.28	20	
Zinc	63.7	96.0	"	48.0	17.4	96.5	75-125	7.69	20	

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Project: KMG - Drill Site #5 West Pit

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3B0608 - DTPA Sorbitol Preparation

#### Blank (B3B0608-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

Boron ND 0.100 mg/L

#### Duplicate (B3B0608-DUP1)

Source: Y302076-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

Boron 0.498 0.100 mg/L 0.464 7.25 50

### Batch B3B0610 - Saturated Paste Metals

#### Blank (B3B0610-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

SAR 0.00 SAR  
Calcium PPM ND 10.0 mg/L  
Magnesium PPM ND 10.0 "  
Sodium PPM ND 10.0 "

#### Duplicate (B3B0610-DUP1)

Source: Y302091-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

Calcium PPM 5.72 10.0 mg/L 10.5 58.8 50 QR-DUP  
SAR 0.00 SAR 0.230 200 200  
Magnesium PPM 1.40 10.0 mg/L 1.87 28.4 50  
Sodium PPM 2.30 10.0 " 3.07 28.7 50

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Project: KMG - Drill Site #5 West Pit

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B0611 - Saturated Paste pH/EC</b>										
<b>Blank (B3B0611-BLK1)</b>					Prepared: 02/06/2023 Analyzed: 02/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3B0611-DUP1)</b>					<b>Source: Y302091-01</b> Prepared: 02/06/2023 Analyzed: 02/07/2023					
Specific Conductance (EC)	0.206	0.00500	mmhos/cm		0.0887			79.8	25	QR-DUP
pH	7.18		pH Units		7.04			1.97	25	

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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L662879 - 3550B**

MSD (L 83456-MSD-L662879)		Source: 83456			Prepared: 02/09/2023 Analyzed: 02/09/2023					
Dibenz(a,h)anthracene	0.114	0.00067	mg/Kg	0.164	<0.000614	69.5	30-130	10.7	30	
2-Methylnaphthalene	0.0906	0.00201	"	0.164	<0.00194	55.2	30-130	4.8	30	
Naphthalene	0.0932	0.00201	"	0.164	<0.00145	56.8	30-130	6.1	30	
Indeno(1,2,3-cd)pyrene	0.0728	0.00067	"	0.164	0.00182	43.2	30-130	17.7	30	
Fluorene	0.0955	0.00067	"	0.164	0.000682	57.8	30-130	6.5	30	
Fluoranthene	0.122	0.00067	"	0.164	0.00242	72.9	30-130	9.3	30	
Pyrene	0.107	0.00067	"	0.164	0.00195	64	30-130	7.2	30	
Chrysene	0.119	0.00067	"	0.164	0.00174	71.5	30-130	11.1	30	
Benzo(k)fluoranthene	0.112	0.00067	"	0.164	0.00148	67.3	30-130	6.8	30	
Benzo(b)fluoranthene	0.0668	0.00067	"	0.164	0.00157	39.7	30-130	4.8	30	
Benzo(a)pyrene	0.123	0.00067	"	0.164	0.00112	74.3	30-130	1.6	30	
Benzo(a)anthracene	0.104	0.00067	"	0.164	0.000809	62.9	30-130	2.8	30	
Anthracene	0.112	0.00067	"	0.164	0.00279	66.5	30-130	4.3	30	
1-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00109	62.8	30-130	6.5	30	
Acenaphthene	0.0989	0.00067	"	0.164	<0.000304	60.3	30-130	6.9	30	
Surrogate: Nitrobenzene-d5	35.8		"	0.329	99.8	35.8	29-110			
Surrogate: 4-Terphenyl-d14	65		"	0.329	204	65	33-122			
Surrogate: 2-Fluorobiphenyl	51		"	0.329	166	51	33-115			

MS (L 83456-MS-L662879)		Source: 83456			Prepared: 02/09/2023 Analyzed: 02/09/2023					
Fluoranthene	0.134	0.00067	mg/Kg	0.165	0.00242	79.7	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.165	<0.000614	76.9	30-130			
Chrysene	0.133	0.00067	"	0.165	0.00174	79.5	30-130			
Benzo(k)fluoranthene	0.12	0.00067	"	0.165	0.00148	71.8	30-130			
Benzo(b)fluoranthene	0.0701	0.00067	"	0.165	0.00157	41.5	30-130			
Benzo(a)pyrene	0.125	0.00067	"	0.165	0.00112	75	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.165	0.000809	64.3	30-130			

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Project: KMG - Drill Site #5 West Pit

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L662879 - 3550B**

MS (L 83456-MS-L662879)		Source: 83456			Prepared: 02/09/2023 Analyzed: 02/09/2023					
Pyrene	0.115	0.00067	mg/Kg	0.165	0.00195	68.5	30-130			
Acenaphthene	0.106	0.00067	"	0.165	<0.000304	64.2	30-130			
Fluorene	0.102	0.00067	"	0.165	0.000682	61.4	30-130			
2-Methylnaphthalene	0.0951	0.00201	"	0.165	<0.00194	57.6	30-130			
1-Methylnaphthalene	0.11	0.00201	"	0.165	<0.00109	66.6	30-130			
Indeno(1,2,3-cd)pyrene	0.087	0.00067	"	0.165	0.00182	51.6	30-130			
Naphthalene	0.0991	0.00201	"	0.165	<0.00145	60	30-130			
Anthracene	0.117	0.00067	"	0.165	0.00279	69.2	30-130			
Surrogate: 4-Terphenyl-d14	64.5		"	0.33	204	64.5	33-122			
Surrogate: 2-Fluorobiphenyl	52.1		"	0.33	166	52.1	33-115			
Surrogate: Nitrobenzene-d5	36.9		"	0.33	99.8	36.9	29-110			

LCS (LCS-L662879)		Prepared: 02/09/2023 Analyzed: 02/09/2023								
Indeno(1,2,3-cd)pyrene	0.0918	0.00067	mg/Kg	0.167		54.9	30-130			
2-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Acenaphthene	0.111	0.00067	"	0.167		66.4	30-130			
Anthracene	0.136	0.00067	"	0.167		81.4	30-130			
Benzo(a)anthracene	0.106	0.00067	"	0.167		63.4	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.167		75.4	30-130			
Benzo(b)fluoranthene	0.0882	0.00067	"	0.167		52.8	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Fluoranthene	0.139	0.00067	"	0.167		83.2	30-130			
Fluorene	0.106	0.00067	"	0.167		63.4	30-130			
Naphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Pyrene	0.127	0.00067	"	0.167		76	30-130			
Dibenz(a,h)anthracene	0.149	0.00067	"	0.167		89.2	30-130			

Origins Laboratory, Inc.



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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L662879 - 3550B**

**LCS (LCS-L662879)**

Prepared: 02/09/2023 Analyzed: 02/09/2023

1-Methylnaphthalene	0.115	0.00201	mg/Kg	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	42.3		"	0.333	42.3		29-110			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333	57.3		33-115			
Surrogate: 4-Terphenyl-d14	81		"	0.333	81		33-122			

**LRB (LRB-L662879)**

Prepared: 02/09/2023 Analyzed: 02/09/2023

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	40.2		"	0.333	40.2		29-110			
Surrogate: 4-Terphenyl-d14	75.6		"	0.333	75.6		33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333	53.7		33-115			

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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417291  
Project: KMG - Drill Site #5 West Pit

## Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L663500 -</b>										
<b>DUP (L 83455-DUP)</b>		<b>Source: 83455</b>			Prepared: Analyzed: 02/13/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 83455-MS)</b>		<b>Source: 83455</b>			Prepared: Analyzed: 02/13/2023					
Chromium, Hexavalent	31	2.5	mg/Kg	40	< 0.244	78	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 02/13/2023					
Chromium, Hexavalent	6.78	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 02/13/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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## Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L663311 -</b>										
<b>DUP (L 83506-DUP)</b>		<b>Source: 83506</b>			Prepared: Analyzed: 02/09/2023					
Chromium, Hexavalent	ND	2.6	mg/Kg		<2.60	-	0	20		
<b>MS (L 83506-MS)</b>		<b>Source: 83506</b>			Prepared: Analyzed: 02/09/2023					
Chromium, Hexavalent	14.4	2.6	mg/Kg	41.6	<1.27	35	75-125			*

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### Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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