

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
ABOVEGROUND STORAGE TANK SAMPLES								
AST01@0.5'	3/30/2023	0.5	0.4	NS	NO	40.16704987	-104.9754278	Y
AST01 Base	3/30/2023	0.5	0.3	NS	NO	40.16704852	-104.9754549	N
AST01 Loadout	3/30/2023	0.5	0.2	NS	NO	40.16704132	-104.9754792	N
AST02@0.5'	3/30/2023	0.5	0.5	NS	NO	40.16704731	-104.9753643	Y
AST02 Base	3/30/2023	0.5	0.3	NS	NO	40.16704929	-104.9753905	N
AST02 Loadout	3/30/2023	0.5	0.2	NS	NO	40.1670484	-104.9754182	N
AST03@2'	3/30/2023	2	40.0	NS	NO	40.16710052	-104.9753911	Y
AST03 Hatch	3/30/2023	2	0.2	NS	NO	40.1671104	-104.975365	N
AST03 Loadout	3/30/2023	2	0.2	NS	NO	40.16710116	-104.9754179	N
PRODUCED WATER VESSEL SAMPLES								
PWV-B01@6'	3/30/2023	6	0.1	NS	NO	40.1670997	-104.9754565	Y
PWV-N01@3'	3/30/2023	3	0.4	NS	NO	40.16711449	-104.9754581	Y
PWV E Wall	3/30/2023	3	0.2	NS	NO	40.16709987	-104.9754388	N
PWV S Wall	3/30/2023	3	0.2	NS	NO	40.16708693	-104.9754566	N
PWV W Wall	3/30/2023	3	0.0	NS	NO	40.16709968	-104.9754747	N
SEPARATOR SAMPLES								
Sep01-Inlet@4'	3/30/2023	4	1.1	NS	NO	40.16727702	-104.9760596	Y
Sep02-Inlet@4'	3/30/2023	4	0.0	NS	NO	40.16727791	-104.9759571	Y
Sep02-Outlet@3.5'	3/30/2023	3.5	0.0	NS	NO	40.16727795	-104.9759194	Y
FLOWLINE POTHOLE SAMPLES								
PH01	3/30/2023	4	0.0	NS	NO	40.16726822	-104.9755857	N
FL01@4'	3/30/2023	4	987.0	NS	Odor	40.16726756	-104.9754149	Y
MISCELLANEOUS SAMPLES								
MH INLET	3/30/2023	0.5	0.0	NS	NO	40.16714533	-104.9755518	N
ECD	3/30/2023	2	0.0	NS	NO	40.16728178	-104.9757045	N
BACKGROUND SOIL SAMPLES								
TB-BG01@0.5'	3/30/2023	0.5	0.2	NS	NO	40.16702356	-104.9753522	Y
Native-BG01@3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16707406	-104.9757116	Y
Native-BG01@6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16707406	-104.9757116	Y
Native-BG02@3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16693379	-104.9759466	Y
Native-BG02@6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16693379	-104.9759466	Y
Native-BG03@3' (Rem No. 27343)	3/23/2023	3	0.0	NS	NO	40.16708531	-104.9761329	Y
Native-BG03@6' (Rem No. 27343)	3/23/2023	6	0.0	NS	NO	40.16708531	-104.9761329	Y

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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
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (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)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	3/30/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST02@0.5'	3/30/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST03@2'	3/30/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.0256	0.0124	0.00494	<0.00380
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@6'	3/30/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00372	<0.00200	<0.00200	<0.00201
PWV-N01@3'	3/30/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR SAMPLES												
Sep01-Inlet@4'	3/30/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Sep02-Inlet@4'	3/30/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Sep02-Outlet@3.5'	3/30/2023	3.5	<0.200	<25.0	<100	0.00572	0.00810	<0.00200	0.00596	<0.00200	<0.00200	<0.00380
FLOWLINE POTHOLE SAMPLES												
FL01@4'	3/30/2023	4	1030	6320	2870	0.0128	0.00642	0.0210	17.6	27.8	0.398	0.997

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

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)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
ABOVEGROUND STORAGE TANK SAMPLES																
AST01@0.5'	3/30/2023	0.5	0.000503	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00173	<0.00067	<0.00067	0.0011	<0.00067	<0.00201	0.00218	<0.00067
AST02@0.5'	3/30/2023	0.5	0.000427	<0.00067	0.000519	0.000966	0.000693	<0.00067	0.00186	<0.00067	0.00103	0.00114	0.000718	<0.00201	0.00207	0.00119
AST03@2'	3/30/2023	2	0.000354	<0.00067	<0.00067	0.000715	<0.00067	0.000772	0.00107	<0.00067	0.000532	0.000537	<0.00067	0.00238	0.00442	<0.00067
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@6'	3/30/2023	6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
PWV-N01@3'	3/30/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
SEPARATOR SAMPLES																
Sep01-Inlet@4'	3/30/2023	4	0.00146	0.000408	0.000861	0.000898	0.00052	<0.00067	0.00432	<0.00067	0.00174	0.00397	0.000698	0.00298	0.00544	0.00306
Sep02-Inlet@4'	3/30/2023	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
Sep02-Outlet@3.5'	3/30/2023	3.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
FLOWLINE POTHOLE SAMPLES																
FL01@4'	3/30/2023	4	0.0922	<0.0134	0.0505	<0.0134	<0.0134	<0.0134	0.113	<0.0134	0.0191	0.536	<0.0134	2.44	4.66	0.0598

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@0.5'	3/30/2023	0.5	0.361	1.00	8.11	0.178
AST02@0.5'	3/30/2023	0.5	0.409	0.902	8.06	0.297
AST03@2'	3/30/2023	2	0.562	0.77	8.03	0.407
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@6'	3/30/2023	6	0.096	0.274	7.53	<0.0992
PWV-N01@3'	3/30/2023	3	0.0720	0.158	7.41	<0.989
SEPARATOR SAMPLES						
Sep01-Inlet@4'	3/30/2023	4	0.510	0.323	7.97	<0.0984
Sep02-Inlet@4'	3/30/2023	4	0.719	1.18	8.02	1.10
Sep02-Outlet@3.5'	3/30/2023	3.5	1.910	1.17	7.80	1.14
FLOWLINE SAMPLES SAMPLES						
FL01@4'	3/30/2023	4	3.130	17.4	7.52	2.21
BACKGROUND SAMPLES						
TB-BG01@0.5'	3/30/2023	0.5	0.564	0.898	7.97	0.248
Native-BG01@3' (Rem No. 27343)	3/23/2023	3	4.48	3.36	7.79	0.989
Native-BG01@6' (Rem No. 27343)	3/23/2023	6	4.15	3.48	7.86	1.67
Native-BG02@3' (Rem No. 27343)	3/23/2023	3	4.34	3.57	8.07	0.956
Native-BG02@6' (Rem No. 27343)	3/23/2023	6	4.91	5.58	7.98	0.766
Native-BG03@3' (Rem No. 27343)	3/23/2023	3	3.25	2.82	8.05	0.677
Native-BG03@6' (Rem No. 27343)	3/23/2023	6	6.09	8.93	8.21	1.69

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth	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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	3/30/2023	0.5	3.75*	56.1	0.105	<0.514	9.52	<8.45	9.10	<0.0845	<0.0845	<84.5
AST02@0.5'	3/30/2023	0.5	3.45*	93.8	0.142	<1.01	10.9	<9.14	9.91	0.124	<0.0914	<91.4
AST03@2'	3/30/2023	2	3.00*	99.6	0.113	<2.58	10.4	<9.14	10.8	0.134	<0.0914	<91.4
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@6'	3/30/2023	6	2.37*	26.0	0.115	<0.5	<9.23	<9.23	<9.23	0.310	<0.0923	<92.3
PWV-N01@3'	3/30/2023	3	1.54*	26.4	<0.0941	<0.5	<9.41	<9.41	<9.41	<0.0941	<0.0941	<94.1
SEPARATOR SAMPLES												
Sep01-Inlet@4'	3/30/2023	4	2.95*	50.9	0.223	<0.5	<8.63	<8.63	<8.63	0.112	<0.0863	<86.3
Sep02-Inlet@4'	3/30/2023	4	4.48*	133*	0.269	<2.52	16.7	14.0	14.9	0.209	<0.0848	<84.8
Sep02-Outlet@3.5'	3/30/2023	3.5	3.73*	146*	0.230	<2.5	14.5	13.5	13.7	0.192	<0.0966	<96.6
FLOWLINE POTHOLE SAMPLES												
FL01@4'	3/30/2023	4	5.22*	172*	0.157	<1	18.2	12.3	20.2	0.140	<0.0911	<91.1
BACKGROUND SAMPLES												
TB-BG01@0.5'	3/30/2023	0.5	3.04	37.2	<0.0929	<1	<9.29	<9.29	<9.29	0.0966	<0.0929	<92.9
Native-BG01@3' (Rem No. 27343)	3/23/2023	3	5.21	117	0.144	<0.517	10.9	31.7	11.6	0.188	<0.0959	<95.9
Native-BG01@6' (Rem No. 27343)	3/23/2023	6	4.18	165	0.235	<2.5	16.7	12.5	15.9	0.262	<0.0928	<92.8
Native-BG02@3' (Rem No. 27343)	3/23/2023	3	2.77	52.5	<0.0894	<2.59	<8.94	<8.94	<8.94	0.132	<0.0894	<89.4
Native-BG02@6' (Rem No. 27343)	3/23/2023	6	3.49	93.3	0.114	<2.5	9.88	<9.44	10.1	0.170	<0.0944	<94.4
Native-BG03@3' (Rem No. 27343)	3/23/2023	3	5.40	230	0.222	<2.5	19.0	13.5	22.7	0.192	<0.0887	<88.7
Native-BG03@6' (Rem No. 27343)	3/23/2023	6	3.32	101	<0.0929	<2.53	20.5	12.4	13.0	0.206	0.114	<92.9

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
JUNCTION 11, 12, 22-2 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*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

Bold - exceeds Table 915-1 allowable level

April 20, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Junction 11,12,22-2 O SA Facility Project Number - 09A1417263

Attached are your analytical results for KMG - Junction 11,12,22-2 O SA Facility received by Origins Laboratory, Inc. March 31, 2023. This project is associated with Origins project number Y303804-01.

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B01@6'	Y303804-01	Soil	March 30, 2023 16:00	03/31/2023 08:58
PWV-W01@3'	Y303804-02	Soil	March 30, 2023 16:05	03/31/2023 08:58
AST01@0.5'	Y303804-03	Soil	March 30, 2023 16:10	03/31/2023 08:58
AST02@0.5'	Y303804-04	Soil	March 30, 2023 16:15	03/31/2023 08:58
AST03@2'	Y303804-05	Soil	March 30, 2023 16:20	03/31/2023 08:58
SEP01-INLET@4'	Y303804-06	Soil	March 30, 2023 16:25	03/31/2023 08:58
SEP02-INLET@4'	Y303804-07	Soil	March 30, 2023 16:30	03/31/2023 08:58
SEP02-OUTLET@3.5'	Y303804-08	Soil	March 30, 2023 16:35	03/31/2023 08:58
FL01@4'	Y303804-09	Soil	March 30, 2023 16:40	03/31/2023 08:58
TB-BG01@0.5'	Y303804-10	Soil	March 30, 2023 16:45	03/31/2023 08:58

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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

INITIAL ☒ IMPACTED ☐

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Client: Ensolum LLC

Address:

Telephone Number:

Email Address:

Project Manager: Jeremy Espinoza

Project Name: Junction 11,12,22-2 OSA Facility

Project Number: 09A1417263

Samples Collected By: Glenn Thompson

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Soil	Groundwater	Full Table 915-1	BTEXN	1,2,4-/1,3,5-TMB	THI-GAO/DECHLO	TC/ptd/A/B/Bion (SP)	Sample Instructions
PWV-B01+6'	3-30-23	1600	2	X				X	X	X	X	Full q15 added to 1 all samples except 2 to Boreas nubs only per the email sent on 4/12/23 4/6
PWV-N01+3'		1605	2									
AST01+0.5'		1610	2									
AST02+0.5'		1615	2									
AST03+2'		1620	2									
Depol-1+16t+4'		1625	2									
Sep02-1+16t+4'		1630	2									
Sep02-2+16t+3.5'		1635	2									
FL01+4'		1640	2									
TB-B01+0.5'		1645	2									
Relinquished By:	Date: 3/31/23	Time: 8:58	Received By: JEM	Date: 3-31-23	Time: 8:58	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Date Results Needed: 3.30

Origins Laboratory, Inc.

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4303803

Client: ENSOLUM

Client Project ID: Junction 11,12,22-2 O S

Checklist Completed by: EHC

Shipped Via: HD

Date/time completed: 3/31/23

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: NA

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

Cooler Number/Temperature: 1 13.3 °C 1 °C 1 °C 1 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Sam Hunter
Reviewed by (Project Manager)

3/31/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'
3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'

3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	86.5 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	91.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'

3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.53	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.274	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0964	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	2.37	0.0923	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-B01@6'

3/30/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-01 (Soil)

Table 915 metals by EPA 6020B

Barium	26.0	9.23	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	0.115	0.0923	"	"	"	"	"
Copper	ND	9.23	"	"	"	"	"
Lead	ND	9.23	"	"	"	"	"
Nickel	ND	9.23	"	"	"	"	"
Selenium	0.310	0.0923	"	"	"	"	"
Silver	ND	0.0923	"	"	"	"	"
Zinc	ND	92.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674313	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-W01@3'
3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.989	mg/L	10	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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	0.00372	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-W01@3'

3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	85.8 %		70-130			B3C31 28	03/31/2023	03/31/2023
Surrogate: Toluene-d8	92.4 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
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	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-W01@3'

3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-02 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.41	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.158	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0720	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	1.54	0.0941	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

PWV-W01@3'

3/30/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-02 (Soil)

Table 915 metals by EPA 6020B

Barium	26.4	9.41	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	ND	0.0941	"	"	"	"	"
Copper	ND	9.41	"	"	"	"	"
Lead	ND	9.41	"	"	"	"	"
Nickel	ND	9.41	"	"	"	"	"
Selenium	ND	0.0941	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	ND	94.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674313	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.100	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.8 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.44		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	0.960		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00218	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000503	0.000304	0.00067	"	"	"	"	"	J
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	0.00173	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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-03 (Soil)

PAH by 8270D SIM

Fluorene	0.0011	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.00	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.361	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.75	0.0845	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	56.1	8.45	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST01@0.5'
3/30/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.105		0.0845	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Copper	9.52		8.45	"	"	"	"	"
Lead	ND		8.45	"	"	"	"	"
Nickel	9.10		8.45	"	"	"	"	"
Selenium	ND		0.0845	"	"	"	"	"
Silver	ND		0.0845	"	"	"	"	"
Zinc	ND		84.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L674313	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'
3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.297	0.0985	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'
3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.9 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	91.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.04		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	1.20		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00207	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000427	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000519	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000966	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000693	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00186	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00103	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: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'

3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y303804-04 (Soil)

PAH by 8270D SIM

Fluorene	0.00114	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Indeno(1,2,3-cd)pyrene	0.000718	0.000627	0.00067	"	"	"	"	"	
Pyrene	0.00119	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.06	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.902	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.45	0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	93.8	9.14	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

AST02@0.5'

3/30/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y303804-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.142		0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Copper	10.9		9.14	"	"	"	"	"	
Lead	ND		9.14	"	"	"	"	"	
Nickel	9.91		9.14	"	"	"	"	"	
Selenium	0.124		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		91.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	1	L674313	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.407	0.0988	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0124	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	
1,3,5-Trimethylbenzene	0.00494	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0256	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.7 %	70-130			"	"	"	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.9 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.66	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	1.82	0.823	"	"	"	"	"
Sodium	1.14	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00238	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
2-Methylnaphthalene	0.00442	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000354	0.000304	0.00067	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000772	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000715	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00107	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000532	0.000394	0.00067	"	"	"	"	J
Fluorene	0.000537	0.000286	0.00067	"	"	"	"	J

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	58.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.03			pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.765			SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.562	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.00	0.0914	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	99.6	9.14	"	"	"	"	"
Cadmium	0.113	0.0914	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

AST03@2'

3/30/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-05 (Soil)

Table 915 metals by EPA 6020B

Copper	10.4		9.14	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Lead	ND		9.14	"	"	"	"	"	
Nickel	10.8		9.14	"	"	"	"	"	
Selenium	0.134		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		91.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.26	2.58	mg/Kg	1	L674315	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.3 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.08		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	0.493		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00298	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
2-Methylnaphthalene	0.00544	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00146	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000408	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000861	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000898	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00052	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00432	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00174	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00397	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'

3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y303804-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000698	0.000627	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023	
Pyrene	0.00306	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B3D0314	04/03/2023	04/04/2023	
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SAR by 20B Saturated Paste

SAR	0.323			SAR	1	B3D0309	04/03/2023	04/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.510		0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.95		0.0863	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Barium	50.9		8.63	"	"	"	"	"	
Cadmium	0.223		0.0863	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP01-INLET@4'
3/30/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.63	mg/kg	10	B3D0334	04/03/2023	04/04/2023	
Lead	ND		8.63	"	"	"	"	"	
Nickel	ND		8.63	"	"	"	"	"	
Selenium	0.112		0.0863	"	"	"	"	"	
Silver	ND		0.0863	"	"	"	"	"	
Zinc	ND		86.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L674315	03/30/2023	04/05/2023	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.10	0.0981	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.5 %		70-130			B3C31 28	03/31/2023	03/31/2023	
Surrogate: Toluene-d8	89.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.00		0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023	
Magnesium	2.93		0.823	"	"	"	"	"	
Sodium	2.04		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-07 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.02	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.18	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.719	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	4.48	0.0848	mg/kg	10	B3D0334	04/03/2023	04/04/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-INLET@4'
3/30/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-07 (Soil)

Table 915 metals by EPA 6020B

Barium	133	8.48	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	0.269	0.0848	"	"	"	"	"
Copper	16.7	8.48	"	"	"	"	"
Lead	14.0	8.48	"	"	"	"	"
Nickel	14.9	8.48	"	"	"	"	"
Selenium	0.209	0.0848	"	"	"	"	"
Silver	ND	0.0848	"	"	"	"	"
Zinc	ND	84.8	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.52	mg/Kg	1	L674315	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.14	0.0999	mg/L	1	B3D0304	04/03/2023	04/04/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C3120	03/31/2023	03/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3128	03/31/2023	03/31/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00572	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	0.00810	0.00200	"	"	"	"	"	
Xylenes, total	0.00596	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130			"	"	"	
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.4 %	70-130	B3C31 28	03/31/2023	03/31/2023
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	10.3	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	9.24	0.823	"	"	"	"	"
Sodium	3.67	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674382	04/06/2023	04/06/2023
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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L674382	04/06/2023	04/06/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.80	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	1.17	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.91	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.73	0.0966	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	146	9.66	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

SEP02-OUTLET@3.5'
3/30/2023 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-08 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.230	0.0966	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Copper	14.5	9.66	"	"	"	"	"
Lead	13.5	9.66	"	"	"	"	"
Nickel	13.7	9.66	"	"	"	"	"
Selenium	0.192	0.0966	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	ND	96.6	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L674315	03/30/2023	04/05/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-09 (Soil)

Boron (DTPA Sorbitol)

Boron	2.21	0.0994	mg/L	1	B3D0304	04/03/2023	04/04/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	6320	250	mg/kg	10	B3C3120	03/31/2023	04/02/2023
Residual Range Organics (C28-C40)	2870	100	"	1	"	"	03/31/2023

Surrogate: o-Terphenyl	282 %	50-150	"	"	04/02/2023	S-04, S-06, U
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	27.8	0.500	mg/kg	250	B3C3128	03/31/2023	04/02/2023
1,3,5-Trimethylbenzene	0.398	0.00200	"	1	"	"	03/31/2023
Benzene	0.0128	0.00200	"	"	"	"	"
Ethylbenzene	0.0210	0.00200	"	"	"	"	"
Toluene	0.00642	0.00200	"	"	"	"	"
Xylenes, total	17.6	0.00200	"	"	"	"	04/02/2023
Gasoline Range Hydrocarbons	1030	50.0	"	250	"	"	"

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.02	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	4.52	0.823	"	"	"	"	"
Sodium	33.7	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	2.44	0.0218	0.0402	mg/Kg	20	L675584	04/12/2023	04/12/2023
2-Methylnaphthalene	4.66	0.0387	0.0402	"	"	"	"	"
Acenaphthene	0.0922	0.00608	0.0134	"	"	"	"	"
Anthracene	ND	0.00668	0.0134	"	"	"	"	"
Benzo(a)anthracene	0.0505	0.00986	0.0134	"	"	"	"	"
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"
Chrysene	0.113	0.0125	0.0134	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"
Fluoranthene	0.0191	0.00788	0.0134	"	"	"	"	"
Fluorene	0.536	0.00572	0.0134	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"
Naphthalene	0.997	0.029	0.0402	"	"	"	"	"
Pyrene	0.0598	0.0129	0.0134	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	44 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	48.9 %		33-122			"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303804-09 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	52 %	29-110	L6755 84	04/12/2023	04/12/2023
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pH in Soil by 9045D

pH	7.52	pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	17.4	SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.13	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	5.22	0.0911	mg/kg	10	B3C3126	03/31/2023	04/04/2023
Barium	172	9.11	"	"	"	"	"
Cadmium	0.157	0.0911	"	"	"	"	"
Copper	18.2	9.11	"	"	"	"	"
Lead	12.3	9.11	"	"	"	"	"
Nickel	20.2	9.11	"	"	"	"	"
Selenium	0.140	0.0911	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	ND	91.1	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

FL01@4'

3/30/2023 4:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y303804-09 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L675725	03/30/2023	04/12/2023
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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: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

TB-BG01@0.5'
3/30/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.248	0.0981	mg/L	1	B3D0304	04/03/2023	04/04/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.05	0.499	meq/L	10	[CALC]	04/03/2023	04/05/2023
Magnesium	1.31	0.823	"	"	"	"	"
Sodium	1.33	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.97		pH Units	1	B3D0314	04/03/2023	04/04/2023
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SAR by 20B Saturated Paste

SAR	0.898		SAR	1	B3D0309	04/03/2023	04/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564	0.00500	mmhos/cm	1	B3D0314	04/03/2023	04/04/2023
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Table 915 metals by EPA 6020B

Arsenic	3.04	0.0929	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Barium	67.2	9.29	"	"	"	"	"
Cadmium	ND	0.0929	"	"	"	"	"
Copper	ND	9.29	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

TB-BG01@0.5'
3/30/2023 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303804-10 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.29	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Nickel	ND	9.29	"	"	"	"	"
Selenium	0.0966	0.0929	"	"	"	"	"
Silver	ND	0.0929	"	"	"	"	"
Zinc	ND	92.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L674315	03/30/2023	04/05/2023
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3120 - EPA 3580										
Blank (B3C3120-BLK1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.5	50-150			

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3120 - EPA 3580

LCS (B3C3120-BS1)

Prepared: 03/31/2023 Analyzed: 03/31/2023

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000		97.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3120 - EPA 3580

Matrix Spike (B3C3120-MS1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	855	50.0	mg/kg	1000	ND	85.5	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000	ND	94.7	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3120 - EPA 3580

Matrix Spike Dup (B3C3120-MSD1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	8.15	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	6.60	35	
Surrogate: o-Terphenyl	46		"	49.8		91.7	50-150			

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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3128 - EPA 5030 (soil)										
Blank (B3C3128-BLK1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
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	0.10		"	0.125		81.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.2	70-130			

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Project: KMG - Junction 11,12,22-2 O SA Facility

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
Batch B3C3128 - EPA 5030 (soil)										
LCS (B3C3128-BS1)					Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.0944	0.00200	"	0.100		94.4	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	70-130			

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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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Batch B3C3128 - EPA 5030 (soil)

Matrix Spike (B3C3128-MS1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Ethylbenzene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
Naphthalene	0.0981	0.00380	"	0.100	0.000820	97.3	70-130			
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
o-Xylene	0.0869	0.00200	"	0.100	0.000820	86.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	0.000700	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

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Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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
Batch B3C3128 - EPA 5030 (soil)										
Matrix Spike Dup (B3C3128-MSD1)		Source: Y303804-01			Prepared: 03/31/2023 Analyzed: 03/31/2023					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130	3.03	20	
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	4.03	20	
Benzene	0.0958	0.00200	"	0.100	ND	95.8	70-130	0.397	20	
Ethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	4.72	20	
Naphthalene	0.105	0.00380	"	0.100	0.000820	105	70-130	7.21	20	
Toluene	0.0848	0.00200	"	0.100	ND	84.8	70-130	1.43	20	
o-Xylene	0.0838	0.00200	"	0.100	0.000820	83.0	70-130	3.63	20	
m,p-Xylene	0.173	0.00400	"	0.200	0.000700	86.3	70-130	4.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	70-130			

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3126 - EPA 3050B

Blank (B3C3126-BLK1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

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	"

LCS (B3C3126-BS1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	0.0492	0.000100	mg/kg	0.0500	98.4	80-120
Barium	4.94	0.0100	"	5.00	98.9	80-120
Cadmium	0.0472	0.000100	"	0.0500	94.5	80-120
Copper	0.516	0.0100	"	0.500	103	80-120
Lead	0.0490	0.0100	"	0.0500	98.0	80-120
Nickel	0.0508	0.0100	"	0.0500	102	80-120
Selenium	0.0499	0.000100	"	0.0500	99.9	80-120

Matrix Spike (B3C3126-MS1)

Source: Y303804-09

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	7.97	0.0866	mg/kg	4.33	5.22	63.7	75-125	QM-07
Barium	573	8.66	"	433	172	92.6	75-125	
Cadmium	4.09	0.0866	"	4.33	0.157	90.8	75-125	
Copper	54.7	8.66	"	43.3	18.2	84.4	75-125	

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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3C3126 - EPA 3050B

Matrix Spike (B3C3126-MS1)		Source: Y303804-09			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Lead	15.2	8.66	mg/kg	4.33	12.3	66.1	75-125			QM-07
Nickel	16.6	8.66	"	4.33	20.2	NR	75-125			QM-07
Selenium	3.81	0.0866	"	4.33	0.140	84.8	75-125			
Matrix Spike Dup (B3C3126-MSD1)		Source: Y303804-09			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Arsenic	8.72	0.0929	mg/kg	4.65	5.22	75.4	75-125	8.94	20	
Barium	688	9.29	"	465	172	111	75-125	18.3	20	
Cadmium	4.43	0.0929	"	4.65	0.157	92.1	75-125	8.08	20	
Copper	61.4	9.29	"	46.5	18.2	93.0	75-125	11.5	20	
Lead	16.2	9.29	"	4.65	12.3	83.4	75-125	6.44	20	
Nickel	19.9	9.29	"	4.65	20.2	NR	75-125	18.0	20	QM-07
Selenium	4.25	0.0929	"	4.65	0.140	88.4	75-125	10.9	20	

Batch B3D0334 - EPA 3050B

Blank (B3D0334-BLK1)		Prepared: 04/03/2023 Analyzed: 04/04/2023								
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 (B3D0334-BS1)		Prepared: 04/03/2023 Analyzed: 04/04/2023								

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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3D0334 - EPA 3050B

LCS (B3D0334-BS1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	0.0450	0.000100	mg/kg	0.0500		90.0	80-120			
Barium	4.71	0.0100	"	5.00		94.2	80-120			
Cadmium	0.0484	0.000100	"	0.0500		96.7	80-120			
Copper	0.498	0.0100	"	0.500		99.6	80-120			
Lead	0.0504	0.0100	"	0.0500		101	80-120			
Nickel	0.0508	0.0100	"	0.0500		102	80-120			
Selenium	0.0482	0.000100	"	0.0500		96.5	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.470	0.100	"	0.500		93.9	80-120			

Matrix Spike (B3D0334-MS1)

Source: Y304015-13

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	5.97	0.0877	mg/kg	4.38	1.49	102	75-125			
Barium	483	8.77	"	438	44.6	100	75-125			
Cadmium	4.41	0.0877	"	4.38	0.0465	99.5	75-125			
Copper	47.4	8.77	"	43.8	3.81	99.5	75-125			
Lead	8.33	8.77	"	4.38	3.91	101	75-125			
Nickel	8.39	8.77	"	4.38	3.63	109	75-125			
Selenium	3.99	0.0877	"	4.38	0.0474	89.9	75-125			
Silver	4.42	0.0877	"	4.38	0.0102	101	75-125			
Zinc	60.9	87.7	"	43.8	15.5	104	75-125			

Matrix Spike Dup (B3D0334-MSD1)

Source: Y304015-13

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	6.17	0.0952	mg/kg	4.76	1.49	98.3	75-125	3.27	20	
Barium	516	9.52	"	476	44.6	99.0	75-125	6.51	20	
Cadmium	4.69	0.0952	"	4.76	0.0465	97.5	75-125	6.17	20	
Copper	50.5	9.52	"	47.6	3.81	98.1	75-125	6.34	20	
Lead	8.68	9.52	"	4.76	3.91	100	75-125	4.17	20	

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3D0334 - EPA 3050B

Matrix Spike Dup (B3D0334-MSD1)		Source: Y304015-13			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Nickel	8.51	9.52	mg/kg	4.76	3.63	102	75-125	1.36	20	
Selenium	4.18	0.0952	"	4.76	0.0474	86.9	75-125	4.82	20	
Silver	4.66	0.0952	"	4.76	0.0102	97.8	75-125	5.26	20	
Zinc	62.6	95.2	"	47.6	15.5	98.9	75-125	2.78	20	

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Jeremy Espinoza
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Project: KMG - Junction 11,12,22-2 O SA Facility

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 B3D0304 - DTPA Sorbitol Preparation

Blank (B3D0304-BLK1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Boron ND 0.100 mg/L

Duplicate (B3D0304-DUP1)

Source: Y303804-01

Prepared: 04/03/2023 Analyzed: 04/04/2023

Boron 0.0243 0.0997 mg/L 0.0302 21.4 50

Batch B3D0309 - Saturated Paste Metals

Blank (B3D0309-BLK1)

Prepared: 04/03/2023 Analyzed: 04/05/2023

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

Duplicate (B3D0309-DUP1)

Source: Y303804-01

Prepared: 04/03/2023 Analyzed: 04/05/2023

SAR 0.00 SAR 0.274 200 200
Calcium PPM 5.53 10.0 mg/L 6.87 21.6 50
Magnesium PPM 2.53 10.0 " 3.08 19.5 50
Sodium PPM 3.43 10.0 " 3.44 0.204 50

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0314 - Saturated Paste pH/EC										
Blank (B3D0314-BLK1)					Prepared: 04/03/2023 Analyzed: 04/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3D0314-DUP1)					Source: Y303804-01 Prepared: 04/03/2023 Analyzed: 04/04/2023					
pH	7.40		pH Units		7.53			1.74	25	
Specific Conductance (EC)	0.0815	0.00500	mmhos/cm		0.0964			16.8	25	

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Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 L674382 - 3550B

MSD (L 92244-MSD-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
2-Methylnaphthalene	0.106	0.00201	mg/Kg	0.164	0.00544	61.3	30-130	11.8	30	
Indeno(1,2,3-cd)pyrene	0.0723	0.00067	"	0.164	0.000698	43.6	30-130	6.4	30	
1-Methylnaphthalene	0.108	0.00201	"	0.164	0.00298	64	30-130	15.1	30	
Pyrene	0.106	0.00067	"	0.164	0.00306	62.7	30-130	6.5	30	
Naphthalene	0.0991	0.00201	"	0.164	<0.00145	60.4	30-130	13.6	30	
Fluorene	0.116	0.00067	"	0.164	0.00397	68.3	30-130	12.8	30	
Fluoranthene	0.111	0.00067	"	0.164	0.00174	66.6	30-130	7.4	30	
Dibenz(a,h)anthracene	0.124	0.00067	"	0.164	<0.000614	75.6	30-130	10.1	30	
Acenaphthene	0.104	0.00067	"	0.164	0.00146	62.5	30-130	11	30	
Chrysene	0.12	0.00067	"	0.164	0.00432	70.5	30-130	6.8	30	
Anthracene	0.117	0.00067	"	0.164	0.000408	71	30-130	8.9	30	
Benzo(a)anthracene	0.106	0.00067	"	0.164	0.000861	64.1	30-130	8.6	30	
Benzo(a)pyrene	0.117	0.00067	"	0.164	<0.000468	71.3	30-130	0	30	
Benzo(b)fluoranthene	0.0638	0.00067	"	0.164	0.000898	38.3	30-130	13	30	
Benzo(k)fluoranthene	0.0894	0.00067	"	0.164	0.00052	54.1	30-130	10.3	30	
Surrogate: 2-Fluorobiphenyl	57.1		"	0.329	171	57.1	33-115			
Surrogate: Nitrobenzene-d5	53.7		"	0.329	156	53.7	29-110			
Surrogate: 4-Terphenyl-d14	55.6		"	0.329	162	55.6	33-122			

MS (L 92244-MS-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
Chrysene	0.112	0.00067	mg/Kg	0.162	0.00432	66.4	30-130			
1-Methylnaphthalene	0.0928	0.00201	"	0.162	0.00298	55.4	30-130			
Naphthalene	0.0864	0.00201	"	0.162	<0.00145	53.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0678	0.00067	"	0.162	0.000698	41.4	30-130			
Fluorene	0.102	0.00067	"	0.162	0.00397	60.5	30-130			
Fluoranthene	0.103	0.00067	"	0.162	0.00174	62.5	30-130			
Dibenz(a,h)anthracene	0.112	0.00067	"	0.162	<0.000614	69.1	30-130			

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 L674382 - 3550B

MS (L 92244-MS-L674382)		Source: Y303804-06			Prepared: 04/06/2023 Analyzed: 04/06/2023					
Pyrene	0.0993	0.00067	mg/Kg	0.162	0.00306	59.4	30-130			
Benzo(k)fluoranthene	0.0806	0.00067	"	0.162	0.00052	49.4	30-130			
Benzo(b)fluoranthene	0.056	0.00067	"	0.162	0.000898	34	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.162	<0.000468	72.2	30-130			
Benzo(a)anthracene	0.0972	0.00067	"	0.162	0.000861	59.4	30-130			
Anthracene	0.107	0.00067	"	0.162	0.000408	65.7	30-130			
Acenaphthene	0.0931	0.00067	"	0.162	0.00146	56.5	30-130			
2-Methylnaphthalene	0.0941	0.00201	"	0.162	0.00544	54.7	30-130			
Surrogate: Nitrobenzene-d5	47.3		"	0.325	156	47.3	29-110			
Surrogate: 4-Terphenyl-d14	51.6		"	0.325	162	51.6	33-122			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.325	171	51.3	33-115			

LCS (LCS-L674382)		Prepared: 04/06/2023 Analyzed: 04/06/2023								
2-Methylnaphthalene	0.105	0.00201	mg/Kg	0.167		62.8	30-130			
Pyrene	0.115	0.00067	"	0.167		68.8	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Anthracene	0.132	0.00067	"	0.167		79	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.167		77.2	30-130			
Benzo(b)fluoranthene	0.0811	0.00067	"	0.167		48.5	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
1-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Naphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Dibenz(a,h)anthracene	0.135	0.00067	"	0.167		80.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0841	0.00067	"	0.167		50.3	30-130			
Fluoranthene	0.118	0.00067	"	0.167		70.6	30-130			

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Jeremy Espinoza
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Project: KMG - Junction 11,12,22-2 O SA Facility

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Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L674382 - 3550B

LCS (LCS-L674382)

Prepared: 04/06/2023 Analyzed: 04/06/2023

Benzo(k)fluoranthene	0.0947	0.00067	mg/Kg	0.167		56.7	30-130			
Surrogate: 2-Fluorobiphenyl	62.4		"	0.333		62.4	33-115			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			

LRB (LRB-L674382)

Prepared: 04/06/2023 Analyzed: 04/06/2023

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			
Surrogate: Nitrobenzene-d5	50.7		"	0.333		50.7	29-110			

Batch L675584 - 3550B

MSD (L 94380-MSD-L675584)

Source: 94380

Prepared: 04/12/2023 Analyzed: 04/12/2023

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675584 - 3550B

MSD (L 94380-MSD-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Naphthalene	0.0958	0.00201	mg/Kg	0.166	<0.00145	57.7	30-130	0.1	30	
Benzo(a)anthracene	0.122	0.00067	"	0.166	<0.000493	73.4	30-130	1.6	30	
2-Methylnaphthalene	0.0973	0.00201	"	0.166	<0.00194	58.6	30-130	1	30	
Acenaphthene	0.0998	0.00067	"	0.166	<0.000304	60.1	30-130	0.5	30	
Anthracene	0.106	0.00067	"	0.166	<0.000334	63.8	30-130	0.9	30	
1-Methylnaphthalene	0.0956	0.00201	"	0.166	<0.00109	57.5	30-130	1.5	30	
Pyrene	0.11	0.00067	"	0.166	<0.000643	66.2	30-130	1.8	30	
Benzo(b)fluoranthene	0.0962	0.00067	"	0.166	<0.000585	57.9	30-130	3.1	30	
Benzo(k)fluoranthene	0.0946	0.00067	"	0.166	<0.000437	56.9	30-130	7.5	30	
Chrysene	0.102	0.00067	"	0.166	<0.000624	61.4	30-130	3.8	30	
Dibenz(a,h)anthracene	0.0943	0.00067	"	0.166	<0.000614	56.8	30-130	5.7	30	
Fluoranthene	0.116	0.00067	"	0.166	<0.000394	69.8	30-130	2.5	30	
Indeno(1,2,3-cd)pyrene	0.0955	0.00067	"	0.166	<0.000627	57.5	30-130	1.6	30	
Fluorene	0.104	0.00067	"	0.166	<0.000286	62.6	30-130	0	30	
Benzo(a)pyrene	0.113	0.00067	"	0.166	<0.000468	68	30-130	0.8	30	
Surrogate: 2-Fluorobiphenyl	49.5		"	0.331	153	49.5	33-115			
Surrogate: 4-Terphenyl-d14	61.9		"	0.331	193	61.9	33-122			
Surrogate: Nitrobenzene-d5	52.2		"	0.331	170	52.2	29-110			

MS (L 94380-MS-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Dibenz(a,h)anthracene	0.0999	0.00067	mg/Kg	0.166	<0.000614	60.1	30-130			
Fluoranthene	0.119	0.00067	"	0.166	<0.000394	71.6	30-130			
Fluorene	0.104	0.00067	"	0.166	<0.000286	62.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.166	<0.000627	58.4	30-130			
Naphthalene	0.0957	0.00201	"	0.166	<0.00145	57.6	30-130			
Chrysene	0.106	0.00067	"	0.166	<0.000624	63.8	30-130			
Pyrene	0.112	0.00067	"	0.166	<0.000643	67.4	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675584 - 3550B

MS (L 94380-MS-L675584)		Source: 94380			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Benzo(k)fluoranthene	0.102	0.00067	mg/Kg	0.166	<0.000437	61.4	30-130			
Benzo(b)fluoranthene	0.0993	0.00067	"	0.166	<0.000585	59.8	30-130			
Benzo(a)pyrene	0.114	0.00067	"	0.166	<0.000468	68.6	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130			
Acenaphthene	0.0993	0.00067	"	0.166	<0.000304	59.8	30-130			
2-Methylnaphthalene	0.0983	0.00201	"	0.166	4.66	59.2	30-130			
1-Methylnaphthalene	0.0971	0.00201	"	0.166	<0.00109	58.4	30-130			
Anthracene	0.107	0.00067	"	0.166	<0.000334	64.4	30-130			
Surrogate: 4-Terphenyl-d14	61.1		"	0.332	193	61.1	33-122			
Surrogate: Nitrobenzene-d5	53.6		"	0.332	170	53.6	29-110			
Surrogate: 2-Fluorobiphenyl	50		"	0.332	153	50	33-115			

LCS (LCS-L675584)		Prepared: 04/12/2023 Analyzed: 04/12/2023								
Benzo(a)anthracene	0.14	0.00067	mg/Kg	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Naphthalene	0.115	0.00201	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Fluoranthene	0.137	0.00067	"	0.167		82	30-130			
Chrysene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(k)fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(b)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
Anthracene	0.123	0.00067	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.115	0.00201	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167		79.6	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675584 - 3550B

LCS (LCS-L675584)

Prepared: 04/12/2023 Analyzed: 04/12/2023

Fluorene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Surrogate: Nitrobenzene-d5	66		"	0.333	66		29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333	74.4		33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333	62.7		33-115			

LRB (LRB-L675584)

Prepared: 04/12/2023 Analyzed: 04/12/2023

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.5		"	0.333	58.5		29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.333	66		33-122			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333	55.8		33-115			

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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
Batch L675725 -										
DUP (L 94228-DUP)	Source: Y303804-09				Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	ND	1.01	mg/Kg		<1.01		-	0	20	
MS (L 94228-MS)	Source: Y303804-09				Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	7.35	2.5	mg/Kg	39	<1.22	19	75-125			*
LCS (LCS)					Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	6.62	0.5	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 04/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L674189 - 3550B

MSD (L 92211-MSD-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Indeno(1,2,3-cd)pyrene	0.0824	0.00067	mg/Kg	0.166	0.00114	48.9	30-130	11.4	30	
Fluorene	0.107	0.00067	"	0.166	<0.000286	64.4	30-130	0	30	
Fluoranthene	0.106	0.00067	"	0.166	<0.000394	63.8	30-130	1.8	30	
Dibenz(a,h)anthracene	0.125	0.00067	"	0.166	0.00127	74.5	30-130	4	30	
Benzo(a)anthracene	0.0983	0.00067	"	0.166	<0.000493	59.2	30-130	1	30	
Chrysene	0.122	0.00067	"	0.166	<0.000624	73.4	30-130	0.8	30	
Pyrene	0.104	0.00067	"	0.166	<0.000643	62.6	30-130	0.9	30	
1-Methylnaphthalene	0.0955	0.00201	"	0.166	<0.00109	57.5	30-130	4	30	
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130	0.8	30	
Anthracene	0.116	0.00067	"	0.166	<0.000334	69.8	30-130	0.8	30	
Acenaphthene	0.0957	0.00067	"	0.166	<0.000304	57.6	30-130	1.2	30	
2-Methylnaphthalene	0.0902	0.00201	"	0.166	<0.00194	54.3	30-130	3.1	30	
Benzo(k)fluoranthene	0.108	0.00067	"	0.166	0.000928	64.5	30-130	6.6	30	
Benzo(b)fluoranthene	0.0669	0.00067	"	0.166	0.000793	39.8	30-130	5.8	30	
Surrogate: Nitrobenzene-d5	53		"	0.332	153	53	29-110			
Surrogate: 4-Terphenyl-d14	61.7		"	0.332	186	61.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.6		"	0.332	154	53.6	33-115			

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Dibenz(a,h)anthracene	0.12	0.00067	mg/Kg	0.164	0.00127	72.3	30-130			
Fluoranthene	0.108	0.00067	"	0.164	<0.000394	65.8	30-130			
Fluorene	0.107	0.00067	"	0.164	<0.000286	65.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0735	0.00067	"	0.164	0.00114	44.1	30-130			
1-Methylnaphthalene	0.0994	0.00201	"	0.164	<0.00109	60.6	30-130			
Chrysene	0.121	0.00067	"	0.164	<0.000624	73.7	30-130			
Pyrene	0.105	0.00067	"	0.164	<0.000643	64	30-130			
Benzo(b)fluoranthene	0.0631	0.00067	"	0.164	0.000793	37.9	30-130			

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

Jeremy Espinoza
Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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 L674189 - 3550B

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Benzo(a)pyrene	0.119	0.00067	mg/Kg	0.164	<0.000468	72.5	30-130			
Benzo(a)anthracene	0.0973	0.00067	"	0.164	<0.000493	59.3	30-130			
Anthracene	0.115	0.00067	"	0.164	<0.000334	70.1	30-130			
Acenaphthene	0.0969	0.00067	"	0.164	<0.000304	59	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.164	0.000928	61	30-130			
2-Methylnaphthalene	0.0931	0.00201	"	0.164	<0.00194	56.7	30-130			
Surrogate: Nitrobenzene-d5	52.5		"	0.329	153	52.5	29-110			
Surrogate: 4-Terphenyl-d14	62.6		"	0.329	186	62.6	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.329	154	53.7	33-115			

LCS (LCS-L674189)		Prepared: 04/05/2023 Analyzed: 04/06/2023								
Pyrene	0.115	0.00067	mg/Kg	0.167		68.8	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167		79.6	30-130			
Benzo(b)fluoranthene	0.075	0.00067	"	0.167		44.9	30-130			
Benzo(k)fluoranthene	0.0913	0.00067	"	0.167		54.6	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.111	0.00067	"	0.167		66.4	30-130			
Chrysene	0.132	0.00067	"	0.167		79	30-130			
Indeno(1,2,3-cd)pyrene	0.0872	0.00067	"	0.167		52.2	30-130			
Acenaphthene	0.109	0.00067	"	0.167		65.2	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130			
Anthracene	0.133	0.00067	"	0.167		79.6	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	69.9		"	0.333		69.9	33-122			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L674189 - 3550B										
LCS (LCS-L674189)					Prepared: 04/05/2023 Analyzed: 04/06/2023					
Surrogate: 2-Fluorobiphenyl	64.2		mg/Kg	0.333		64.2	33-115			
LRB (LRB-L674189)					Prepared: 04/05/2023 Analyzed: 04/06/2023					
Indeno(1,2,3-cd)pyrene	ND	0.00067	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	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			

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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
Batch L674315 -										
DUP (L 92243-DUP)	Source: Y303804-05				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.56	mg/Kg		<2.56	-		0	20	
MS (L 92243-MS)	Source: Y303804-05				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	32.2	2.51	mg/Kg	40.2	<1.22	80	75-125			
LCS (LCS)					Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project Number: 09A1417263
Project: KMG - Junction 11,12,22-2 O SA Facility

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
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Batch L674313 -

DUP (L 92230-DUP)		Source: 92230			Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.54	mg/Kg		<2.54		-	0	20	
MS (L 92230-MS)		Source: 92230			Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	31	2.6	mg/Kg	41.5	<1.27	75	75-125			

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Jeremy Espinoza

Project Number: 09A1417263

Project: KMG - Junction 11,12,22-2 O SA Facility

Notes and Definitions

U Sample is Non-Detect.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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