TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
SHARKEY 8& 9-35 & 10-3 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@2'	12/28/2023	2	**130**	**664**	**306**	**0.0157**	<0.00200	<0.00200	<0.00200	**0.118**	<0.00200	**0.005**
AST02@1'	12/28/2023	1	2.74	<25.0	<100	<0.00200	0.0114	0.0026	0.0642	0.024	0.0172	**0.022**
AST03@1.5'	12/28/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
PRODUCED WATER VESSEL SAMPLES												
PWV01-E01@2.5'	12/28/2023	2.5	9.23	<25.0	<100	0.00634	0.0067	0.0023	0.0323	**0.0176**	0.0058	0.003
PWV01-B01@6'	12/28/2023	6	19.2	45.9	<100	<0.00200	<0.00200	<0.00200	0.00772	**0.102**	0.0039	<0.002
PWV02-E01@2.5'	12/28/2023	2.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00662	0.00252	0.00214	<0.002
PWV02-B01@6'	12/28/2023	6	0.582	<25.0	<100	<0.00200	<0.00200	<0.00200	0.0111	**0.00864**	0.00558	<0.002
SEPARATOR SAMPLES												
SEP01-INLET@4'	12/29/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP01-OUTLET@4'	12/29/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP02-INLET@4'	12/29/2023	4	0.662	<25.0	<100	**0.00576**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP02-OUTLET@4'	12/29/2023	4	9.09	<25.0	<100	**0.400**	<0.00200	0.0268	0.0424	0.0671	<0.00200	<0.002
MISCELLANEOUS SAMPLES												
FL01@4'	12/29/2023	4	6.70	<25.0	<100	**0.00502**	<0.00200	<0.00200	<0.00200	**0.0924**	0.00336	0.003
FL02@4'	12/29/2023	4	**441**	**106**	**<100**	**0.0342**	0.0195	0.145	0.122	**0.960**	**0.0918**	**0.192**

Notes:
ECMC - Energy and Carbon Management Commission
PGSSL - Protection of Groundwater Soil Screening Level Concentrations
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

ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

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TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
SHARKEY 8& 9-35 & 10-3 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)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			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@2'	12/28/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.010**	**0.020**	<0.020
AST02@1'	12/28/2023	1	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.014**	**0.030**	<0.020
AST03@1.5'	12/28/2023	1.5	<0.020	<0.020	0.008	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
PRODUCED WATER VESSEL SAMPLES																
PWV01-E01@2.5'	12/28/2023	2.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.008**	0.010	<0.020
PWV01-B01@6'	12/28/2023	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.004	0.007	<0.020
PWV02-E01@2.5'	12/28/2023	2.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
PWV02-B01@6'	12/28/2023	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
SEPARATOR SAMPLES																
SEP01-INLET@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
SEP01-OUTLET@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
SEP02-INLET@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
SEP02-OUTLET@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
MISCELLANEOUS SAMPLES																
FL01@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.004	0.007	<0.020
FL02@4'	12/29/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.179**	**0.395**	<0.020

Notes:
ECMC - Energy and Carbon Management Commission
PGSSL - Protection of Groundwater Soil Screening Level Concentrations
ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
SHARKEY 8& 9-35 & 10-3 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)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB Material)			2.51	5.94	8.95	0.575
Site-Specific Background Limits (Native)			1.12	5.95	7.66-9.23	NA
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@2'	12/28/2023	2	0.742	1.45	7.30	<0.998
AST02@1'	12/28/2023	1	0.440	2.29	8.20	0.220
AST03@1.5'	12/28/2023	1.5	0.254	0.94	8.15	<0.101
PRODUCED WATER VESSEL SAMPLES						
PWV01-E01@2.5'	12/28/2023	2.5	0.399	1.17	8.28	0.157
PWV01-B01@6'	12/28/2023	6	0.567	2.30	8.27	0.282
PWV02-E01@2.5'	12/28/2023	2.5	0.592	1.65	8.25	0.177
PWV02-B01@6'	12/28/2023	6	0.320	1.54	8.25	<0.101
SEPARATOR SAMPLES						
SEP01-INLET@4'	12/29/2023	4	1.58	5.69	8.29	0.292
SEP01-OUTLET@4'	12/29/2023	4	1.28	**6.41**	8.45*	1.31
SEP02-INLET@4'	12/29/2023	4	0.701	2.49	8.30	<1.01
SEP02-OUTLET@4'	12/29/2023	4	0.616	2.97	8.44*	0.469
MISCELLANEOUS SAMPLES						
FL01@4'	12/29/2023	4	0.715	4.31	8.41*	0.237
FL02@4'	12/29/2023	4	0.661	7.36	7.21	<0.999
BACKGROUND SAMPLES						
TB-BG01@0.5'	12/28/2023	0.5	2.51	5.94	8.29	0.575
NATIVE-BG01@3'	12/29/2023	3	1.12	5.95	8.55	<0.999
NATIVE-BG01@6'	12/29/2023	6	0.616	3.00	8.28	<1.01
NATIVE-BG02@3'	12/29/2023	3	0.413	1.18	8.26	<0.0991
NATIVE-BG02@6'	12/29/2023	6	0.439	1.30	8.27	<0.0993

Notes:
ECMC - Energy and Carbon Management Commision
EC - electrical conductivity
SAR - sodium adsorption ratio
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
ft - feet
bgs - below ground surface
mmhos/cm - millimhos per centimeter
mg/L - milligrams per liter
Bold - exceeds ECMC Table 915-1 allowable level and background
*Exceeds Table 915-1 allowable level but within analytical variability of background
^ - site-specific background is shown as 1.08x maximum background to account for analytical variability
If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
SHARKEY 8& 9-35 & 10-3 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB Material)			2.32	95.8	0.109	NA	10.8	6.69	8.1	0.124	<0.0865	40
Site-Specific Background Limits (Native)			5.57	225	0.247	NA	15.8	13.9	11.3	0.677	NA	84.3
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@2'	12/28/2023	2	**2.75**	**148**	0.168	<0.5	12.0	12.7	8.81	0.233	<0.0961	57.1
AST02@1'	12/28/2023	1	**2.75**	71.7	0.106	<0.5	<9.73	7.49	7.67	<0.0973	<0.0973	34.0
AST03@1.5'	12/28/2023	1.5	1.96*	58.4	0.258	<0.5	10.7	13.2	3.78	<0.0870	0.134	41.0
PRODUCED WATER VESSEL SAMPLES												
PWV01-E01@2.5'	12/28/2023	2.5	1.93*	69.2	0.103	<0.5	<9.18	7.22	4.79	0.103	<0.0918	28.9
PWV01-B01@6'	12/28/2023	6	1.77*	94.6*	0.166	<0.5	<9.46	11.3	5.67	0.149	<0.0946	38.8
PWV02-E01@2.5'	12/28/2023	2.5	1.87*	68.5	0.194	<0.5	<8.72	8.88	5.18	<0.0872	<0.0872	33.6
PWV02-B01@6'	12/28/2023	6	1.35*	32.7	<0.0916	<0.5	<9.16	3.71	3.33	<0.0916	<0.0916	20.9
SEPARATOR SAMPLES												
SEP01-INLET@4'	12/29/2023	4	2.89*	117*	0.186	<0.505	11.5	10.5	7.66	0.174	<0.0986	54.6
SEP01-OUTLET@4'	12/29/2023	4	3.30*	**329**	0.201	<1	21.0	**19.7**	14.0	0.364*	0.110	101
SEP02-INLET@4'	12/29/2023	4	2.67*	123*	0.268	<1	13.0	**19.0**	7.96	0.297*	<0.0962	66.2
SEP02-OUTLET@4'	12/29/2023	4	2.69*	125*	0.152	<0.5	10.5	11.6	7.49	0.180	<0.0924	61.6
MISCELLANEOUS SAMPLES												
FL01@4'	12/29/2023	4	1.98*	96.9*	0.105	<0.505	8.48	7.77	6.15	0.0992	<0.0841	59.8
FL02@4'	12/29/2023	4	3.89*	209*	0.341	<1	17.5	**15.2**	14	0.357*	<0.0919	87.9
BACKGROUND SAMPLES												
TB-BG01@0.5'	12/28/2023	0.5	2.32	95.8	0.109	<0.5	10.8	6.69	8.10	0.124	<0.0865	40.0
NATIVE-BG01@3'	12/29/2023	3	5.57	225	0.247	<1.01	15.8	13.9	11.3	0.677	<0.0969	84.3
NATIVE-BG01@6'	12/29/2023	6	2.00	182	<0.0964	<0.5	10.8	9.74	7.62	0.110	<0.0964	59.3
NATIVE-BG02@3'	12/29/2023	3	0.970	15.5	<0.0890	<0.506	<8.90	2.96	1.13	<0.0890	<0.0890	10.6
NATIVE-BG02@6'	12/29/2023	6	0.745	16.8	<0.0850	<0.5	<8.50	3.07	1.26	<0.0850	<0.0850	10.8

Notes:
ECMC - Energy and Carbon Management Commission
PGSSL - Protection of Groundwater Soil Screening Level Concentrations
ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background
*Exceeds Table 915-1 allowable level but within analytical variability of background
^ - site-specific background is shown as 1.25x maximum background to account for analytical variability
If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SHARKEY 8& 9-35 & 10-3 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-trimethylbenzene (µg/L)	1,3,5-trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		**5**	**560**	**700**	**1400**	**140**	**67**	**67**	**4,450,000**	**250,000**	**320,000**	
PWV-GW01	12/28/2023	**16.8**	40.6	24.3	270	9.94	**146**	**83.4**	1,200,000	228,000	260,000	3.0
SEP01-GW01	12/29/2023	1.84	5.84	1.05	6.26	<2.00	<2.00	<2.00	1,180,000	224,000	302,000	2.0
SEP02-GW02	12/29/2023	**93.9**	30.6	7.62	64.4	48.0	25.1	10.6	1,050,000	217,000	172,000	2.0
FL01-GW01	12/29/2023	**64.0**	60.2	11.9	104	6.77	30.6	10.4	968,000	193,000	196,000	2.0
FL02-GW01	12/29/2023	**78.2**	3.91	4.65	6.88	74.4	<2.00	<2.00	756,000	174,000	64,200	3.0
GW-BG01	12/29/2023	NA	NA	NA	NA	NA	NA	NA	1,180,000	225,000	256,000	0.5
GW-BG02	12/29/2023	NA	NA	NA	NA	NA	NA	NA	3,560,000	190,000	231,000	0.5

Notes: ECMC - Energy and Carbon Management Commission
ft bgs - feet below ground surface
NA - not analyzed/not available
µg/L - micrograms per liter
< - less than laboratory reporting limit
Excavation groundwater depth is approximate
Total dissolved solids, chloride ion, and sulfate ion parameters based on background sample (BGGW02) concentration x 1.25
BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

ORIGINS LABORATORY, INC

January 08, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Sharkey 8&9-35 & 10-3 O SA Facility Project Number - 09A1417396

Attached are your analytical results for KMG - Sharkey 8&9-35 & 10-3 O SA Facility received by Origins Laboratory, Inc. December 28, 2023. This project is associated with Origins project number Y312757-01.

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

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

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

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

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

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

THE NELAC INSTITUTE

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ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@2'	Y312757-01	Soil	December 28, 2023 10:10	12/28/2023 15:54
AST02@1'	Y312757-02	Soil	December 28, 2023 10:40	12/28/2023 15:54
AST03@1.5'	Y312757-03	Soil	December 28, 2023 11:20	12/28/2023 15:54
PWV01-B01@6'	Y312757-04	Soil	December 28, 2023 12:00	12/28/2023 15:54
PWV01-E01@2.5'	Y312757-05	Soil	December 28, 2023 12:15	12/28/2023 15:54
PWV02-B01@6'	Y312757-06	Soil	December 28, 2023 12:45	12/28/2023 15:54
PWV02-E01@2.5'	Y312757-07	Soil	December 28, 2023 13:00	12/28/2023 15:54
TB-BG01@0.5'	Y312757-08	Soil	December 28, 2023 13:10	12/28/2023 15:54
PWV-GW01	Y312757-09	Water	December 28, 2023 13:45	12/28/2023 15:54

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

ORIGINS LABORATORY, INC
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page 1 of 1

Client: Ensolum LLC
Address:
Telephone Number:
Email Address: KMG Team

Project Manager: Jeremy Espinoza
Project Name: Sharkey 8&9-35 & 10-3 O SA Facility
Project Number: 09A1417396
Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative: Unpreserved	HCl	HNO_3	Other	Groundwater	Soil	Full Talk+ 915-1	BTEX	1,2,4/1,3,5-TMB	TMH-GRO/DRO/OROO	EOPH/SARBtoen (SP)	Sample Instructions
AS01-2'	12-28-23	1010	3	X						X					915 metals added to TB-B601@0.5' per Hannah email on 12-29-23
AS02-1'		1040	3							X					
AS03-1.5'		1120	3							X					
~~PW01-B01-6'~~		1200	3							X					
PW01-E01-2.5'		1215	3							X					
PW02-B01-6'		1245	3							X					
PW02-E01-2.5'		1300	3							X					
TB-B601-0.5'		1310	3					X					X		
PW-GW01		1345	4					X		X					

Relinquished By: Date: 12-28-23 Time: 1554 Received By: Date: 12/28/23 Time: 1554

Relinquished By: Date: Time: Received By: Date: Time:

Turnaround Time: Same Day [●] 24 Hr [ ] 48 Hr [ ] 72 Hr [ ] Standard [ ]

Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: VB12757

Client: Ensolum

Client Project ID: Sharkey

Checklist Completed by: TOT/EMS

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

Date/time completed: 12/28/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid X Water ____ Other: ____

Cooler Number/Temperature: 1 / 9 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C (Describe)

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]?		✓		SD
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**	✓			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	

Additional Comments (if any): Bubble in one VOA. Sample jar lids not screwed on properly.

[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.*

Reviewed by (Project Manager) ____ Date/Time Reviewed 12/28/23

Origins Laboratory, Inc.

JByron

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST01@2'
12/28/2023 10:10:00AM

Origins Laboratory, Inc.
Y312757-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.998	mg/L	10	B3L2902	12/29/2023	01/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	**664**		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	
Residual Range Organics (C28-C40)	**306**		100	"	"	"	"	"	
Surrogate: o-Terphenyl	*105 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.118**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	**0.0157**		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	**130**		5.00	"	25	"	"	12/29/2023	
Surrogate: 1,2-Dichloroethane-d4	*84.4 %*		*70-130*			"	"	*12/29/2023*	
Surrogate: Toluene-d8	*90.4 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST01@2'
12/28/2023 10:10:00AM

Origins Laboratory, Inc.
Y312757-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*292 %*		*70-130*			*B3L2826*	*12/28/2023*	*12/29/2023*	*S-GC*
Metals by Saturated Paste by EPA 6010									
Calcium	**3.05**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	**1.10**		0.823	"	"	"	"	"	
Sodium	**2.10**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.010**		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	
2-Methylnaphthalene	**0.020**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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Ensolum
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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST01@2'
12/28/2023 10:10:00AM

Origins Laboratory, Inc.
Y312757-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Naphthalene	**0.005**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*94.3 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*104 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*104 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**7.30**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**1.45**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.742**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**2.75**		0.0961	mg/kg	10	B3L2824	12/28/2023	12/29/2023	

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Ensolum
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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST01@2'
12/28/2023 10:10:00AM

Origins Laboratory, Inc.
Y312757-01 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Barium	**148**		9.61	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Cadmium	**0.168**		0.0961	"	"	"	"	"	
Copper	**12.0**		9.61	"	"	"	"	"	
Lead	**12.7**		0.961	"	"	"	"	"	
Nickel	**8.81**		0.961	"	"	"	"	"	
Selenium	**0.233**		0.0961	"	"	"	"	"	
Silver	ND		0.0961	"	"	"	"	"	
Zinc	**57.1**		9.61	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

Origins Laboratory, Inc.

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST02@1'
12/28/2023 10:40:00AM

Origins Laboratory, Inc.
Y312757-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.220**		0.0993	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*103 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.0240**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.0172**		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	**0.00260**		0.00200	"	"	"	"	"	
Toluene	**0.0114**		0.00200	"	"	"	"	"	
Xylenes, total	**0.0642**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**2.74**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*82.9 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*94.7 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.1 %*		*70-130*			"	"	"	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST02@1'
12/28/2023 10:40:00AM

Origins Laboratory, Inc.
Y312757-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Metals by Saturated Paste by EPA 6010									
Calcium	**1.21**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.93**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.014**		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	
2-Methylnaphthalene	**0.030**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	**0.022**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*105 %*		*60-130*			"	"	"	

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST02@1'
12/28/2023 10:40:00AM

Origins Laboratory, Inc.
Y312757-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Surrogate: Anthracene-d10	*84.3 %*		*60-130*			*B3L2823*	*12/28/2023*	*12/29/2023*	
Surrogate: Pyrene-d10	*116 %*		*60-130*			*"*	*"*	*"*	
Surrogate: Benzo (a) pyrene-d12	*102 %*		*60-130*			*"*	*"*	*"*	
pH in Soil by 9045D									
pH	**8.20**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**2.29**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.440**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**2.75**		0.0973	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Barium	**71.7**		9.73	"	"	"	"	"	
Cadmium	**0.106**		0.0973	"	"	"	"	"	
Copper	ND		9.73	"	"	"	"	"	
Lead	**7.49**		0.973	"	"	"	"	"	
Nickel	**7.67**		0.973	"	"	"	"	"	
Selenium	ND		0.0973	"	"	"	"	"	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST02@1'
12/28/2023 10:40:00AM

Origins Laboratory, Inc.
Y312757-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Table 915 metals by EPA 6020B									
Silver	ND		0.0973	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Zinc	**34.0**		9.73	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST03@1.5'
12/28/2023 11:20:00AM

Origins Laboratory, Inc.
Y312757-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.101	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*101 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*81.6 %*		*70-130*			"	"	"	

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ORIGINS LABORATORY, INC

Ensolum
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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST03@1.5'
12/28/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-03 (Soil)									
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	*94.0 %*		*70-130*			*B3L2826*	*12/28/2023*	*12/29/2023*	
Surrogate: 4-Bromofluorobenzene	*97.9 %*		*70-130*			*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.05**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**0.746**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	**0.008**		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST03@1.5'
12/28/2023 11:20:00AM

Origins Laboratory, Inc.
Y312757-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Fluorene	ND		0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*83.7 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*118 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*101 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.15**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**0.942**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.254**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

AST03@1.5'
12/28/2023 11:20:00AM

Origins Laboratory, Inc.
Y312757-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Table 915 metals by EPA 6020B									
Arsenic	**1.96**		0.0870	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Barium	**58.4**		8.70	"	"	"	"	"	
Cadmium	**0.258**		0.0870	"	"	"	"	"	
Copper	**10.7**		8.70	"	"	"	"	"	
Lead	**13.2**		0.870	"	"	"	"	"	
Nickel	**3.78**		0.870	"	"	"	"	"	
Selenium	ND		0.0870	"	"	"	"	"	
Silver	**0.134**		0.0870	"	"	"	"	"	
Zinc	**41.0**		8.70	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-B01@6'
12/28/2023 12:00:00PM

Origins Laboratory, Inc.
Y312757-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.282**		0.0999	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	**45.9**		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*104 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.102**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.00390**		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	**0.00772**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**19.2**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*87.0 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*89.7 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-B01@6'
12/28/2023 12:00:00PM

Origins Laboratory, Inc.
Y312757-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*150 %*		*70-130*			*B3L2826*	*12/28/2023*	*12/29/2023*	*S-GC*
Metals by Saturated Paste by EPA 6010									
Calcium	**1.48**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**2.36**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.004**		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	
2-Methylnaphthalene	**0.007**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-B01@6'
12/28/2023 12:00:00PM

Origins Laboratory, Inc.
Y312757-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*84.0 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*120 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*100 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.27**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**2.30**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.567**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**1.77**		0.0946	mg/kg	10	B3L2824	12/28/2023	12/29/2023	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-B01@6'
12/28/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-04 (Soil)									
Table 915 metals by EPA 6020B									
Barium	**94.6**		9.46	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Cadmium	**0.166**		0.0946	"	"	"	"	"	
Copper	ND		9.46	"	"	"	"	"	
Lead	**11.3**		0.946	"	"	"	"	"	
Nickel	**5.67**		0.946	"	"	"	"	"	
Selenium	**0.149**		0.0946	"	"	"	"	"	
Silver	ND		0.0946	"	"	"	"	"	
Zinc	**38.8**		9.46	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-E01@2.5'
12/28/2023 12:15:00PM

Origins Laboratory, Inc.
Y312757-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.157**		0.0991	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*92.4 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.0176**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.00580**		0.00200	"	"	"	"	"	
Benzene	**0.00634**		0.00200	"	"	"	"	"	
Ethylbenzene	**0.00230**		0.00200	"	"	"	"	"	
Toluene	**0.00670**		0.00200	"	"	"	"	"	
Xylenes, total	**0.0323**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**9.23**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*83.3 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*89.2 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*126 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-E01@2.5'
12/28/2023 12:15:00PM

Origins Laboratory, Inc.
Y312757-05 (Soil)

Metals by Saturated Paste by EPA 6010

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Calcium	**1.42**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.14**		0.435	"	"	"	"	"	

PAH by EPA 8270E

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	**0.008**		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	
2-Methylnaphthalene	**0.010**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	**0.003**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	

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ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-E01@2.5'
12/28/2023 12:15:00PM

Origins Laboratory, Inc.
Y312757-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Surrogate: Anthracene-d10	*83.1 %*		*60-130*			*B3L2823*	*12/28/2023*	*12/29/2023*	
Surrogate: Pyrene-d10	*119 %*		*60-130*			*"*	*"*	*"*	
Surrogate: Benzo (a) pyrene-d12	*102 %*		*60-130*			*"*	*"*	*"*	
pH in Soil by 9045D									
pH	**8.28**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**1.17**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.399**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**1.93**		0.0918	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Barium	**69.2**		9.18	"	"	"	"	"	
Cadmium	**0.103**		0.0918	"	"	"	"	"	
Copper	ND		9.18	"	"	"	"	"	
Lead	**7.22**		0.918	"	"	"	"	"	
Nickel	**4.79**		0.918	"	"	"	"	"	
Selenium	**0.103**		0.0918	"	"	"	"	"	

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ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV01-E01@2.5'
12/28/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-05 (Soil)									
Table 915 metals by EPA 6020B									
Silver	ND		0.0918	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Zinc	**28.9**		9.18	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-B01@6'
12/28/2023 12:45:00PM

Origins Laboratory, Inc.
Y312757-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.101	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*93.1 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.00864**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.00558**		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	**0.0111**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**0.582**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*84.7 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*93.8 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-B01@6'
12/28/2023 12:45:00PM

Origins Laboratory, Inc.
Y312757-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*97.7 %*		*70-130*			*B3L2826*	*12/28/2023*	*12/29/2023*	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.10**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.22**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-B01@6'
12/28/2023 12:45:00PM

Origins Laboratory, Inc.
Y312757-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*83.0 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*121 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*103 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.25**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**1.54**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.320**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**1.35**		0.0916	mg/kg	10	B3L2824	12/28/2023	12/29/2023	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-B01@6'
12/28/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-06 (Soil)									
Table 915 metals by EPA 6020B									
Barium	**32.7**		9.16	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Cadmium	ND		0.0916	"	"	"	"	"	
Copper	ND		9.16	"	"	"	"	"	
Lead	**3.71**		0.916	"	"	"	"	"	
Nickel	**3.33**		0.916	"	"	"	"	"	
Selenium	ND		0.0916	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	**20.9**		9.16	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-E01@2.5'
12/28/2023 1:00:00PM

Origins Laboratory, Inc.
Y312757-07 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.177**		0.0983	mg/L	1	B3L2902	12/29/2023	01/02/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2828	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*96.4 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.00252**		0.00200	mg/kg	1	B3L2826	12/28/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.00214**		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	**0.00662**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*82.7 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*95.2 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-E01@2.5'
12/28/2023 1:00:00PM

Origins Laboratory, Inc.
Y312757-07 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*97.4 %*		*70-130*			*B3L2826*	*12/28/2023*	*12/29/2023*	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.92**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.90**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-E01@2.5'
12/28/2023 1:00:00PM

Origins Laboratory, Inc.
Y312757-07 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2823	12/28/2023	12/29/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*83.9 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*123 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*97.5 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.25**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**1.65**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.592**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**1.87**		0.0872	mg/kg	10	B3L2824	12/28/2023	12/29/2023	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV02-E01@2.5'
12/28/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-07 (Soil)									
Table 915 metals by EPA 6020B									
Barium	**68.5**		8.72	mg/kg	10	B3L2824	12/28/2023	12/29/2023	
Cadmium	**0.194**		0.0872	"	"	"	"	"	
Copper	ND		8.72	"	"	"	"	"	
Lead	**8.88**		0.872	"	"	"	"	"	
Nickel	**5.18**		0.872	"	"	"	"	"	
Selenium	ND		0.0872	"	"	"	"	"	
Silver	ND		0.0872	"	"	"	"	"	
Zinc	**33.6**		8.72	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

TB-BG01@0.5'
12/28/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-08 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.575**		0.0991	mg/L	1	B3L2902	12/29/2023	01/02/2024	
Metals by Saturated Paste by EPA 6010									
Calcium	**8.26**		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	**2.09**		0.823	"	"	"	"	"	
Sodium	**13.5**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.29**			pH Units	1	B3L2909	12/29/2023	12/30/2023	
SAR by 20B Saturated Paste									
SAR	**5.94**		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**2.51**		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
Table 915 metals by EPA 6020B									
Arsenic	**2.32**		0.0865	mg/kg	10	B3L2917	12/29/2023	01/02/2024	
Barium	**95.8**		8.65	"	"	"	"	"	
Cadmium	**0.109**		0.0865	"	"	"	"	"	
Copper	**10.8**		8.65	"	"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

TB-BG01@0.5'
12/28/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312757-08 (Soil)									
Table 915 metals by EPA 6020B									
Lead	**6.69**		0.865	mg/kg	10	B3L2917	12/29/2023	01/02/2024	
Nickel	**8.10**		0.865	"	"	"	"	"	
Selenium	**0.124**		0.0865	"	"	"	"	"	
Silver	ND		0.0865	"	"	"	"	"	
Zinc	**40.0**		8.65	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

PWV-GW01
12/28/2023 1:45:00PM

Origins Laboratory, Inc.
Y312757-09 (Water)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Anions by IC 300.0									
Chloride	**228**		31.2	mg/L	125	B3L2911	12/29/2023	12/30/2023	
Sulfate	**260**		31.2	"	"	"	"	"	
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	**146**		2.00	ug/L	1	B3L2835	12/28/2023	12/28/2023	
1,3,5-Trimethylbenzene	**83.4**		2.00	"	"	"	"	"	
Benzene	**16.8**		1.00	"	"	"	"	"	
Ethylbenzene	**24.3**		1.00	"	"	"	"	"	
Naphthalene	**9.94**		2.00	"	"	"	"	"	
Toluene	**40.6**		1.00	"	"	"	"	"	
Xylenes, total	**270**		1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*107 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*			"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**1200**		5.00	mg/L	1	B3L2818	12/28/2023	12/30/2023	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2826 - EPA 5030 (soil)										
Blank (B3L2826-BLK1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
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*		*79.6*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*95.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*96.6*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2826 - EPA 5030 (soil)										
LCS (B3L2826-BS1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100		93.3	70-130			
1,3,5-Trimethylbenzene	0.0926	0.00200	"	0.100		92.6	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0966	0.00380	"	0.100		96.6	70-130			
Toluene	0.0934	0.00200	"	0.100		93.4	70-130			
o-Xylene	0.0940	0.00200	"	0.100		94.0	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.098*		*"*	*0.125*		*78.6*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*94.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*96.8*	*70-130*			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2826 - EPA 5030 (soil)										
Matrix Spike (B3L2826-MS1)		**Source: Y312751-03**			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	0.0865	0.00200	mg/kg	0.100	0.00100	85.5	70-130			
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
Ethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Naphthalene	0.0869	0.00380	"	0.100	ND	86.9	70-130			
Toluene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
o-Xylene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.099*		*"*	*0.125*		*79.1*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*95.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*95.0*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2826 - EPA 5030 (soil)										
Matrix Spike Dup (B3L2826-MSD1)		**Source: Y312751-03**		Prepared: 12/28/2023 Analyzed: 12/28/2023						
1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	0.00100	82.6	70-130	3.36	20	
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	3.16	20	
Benzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	3.89	20	
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130	3.84	20	
Naphthalene	0.0865	0.00380	"	0.100	ND	86.5	70-130	0.461	20	
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130	4.91	20	
o-Xylene	0.0852	0.00200	"	0.100	ND	85.2	70-130	3.25	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130	3.04	20	
Surrogate: 1,2-Dichloroethane-d4	*0.10*		*"*	*0.125*		*82.2*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*94.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*96.7*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2828 - EPA 3550B										
Blank (B3L2828-BLK1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*20*		*"*	*24.9*		*80.8*	*50-150*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2828 - EPA 3550B										
LCS (B3L2828-BS1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	*49*		*"*	*49.8*		*98.8*	*50-150*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2828 - EPA 3550B										
Matrix Spike (B3L2828-MS1)		**Source: Y312751-03**			Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	*47*		*"*	*49.8*		*94.2*	*50-150*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2828 - EPA 3550B										
Matrix Spike Dup (B3L2828-MSD1)		**Source: Y312751-03**			Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130	2.21	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	0.264	35	
Surrogate: o-Terphenyl	*36*		*"*	*49.8*		*72.2*	*50-150*			

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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 B3L2835 - EPA 5030B (Water)										
Blank (B3L2835-BLK1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	*64*		*"*	*62.5*		*102*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*68*		*"*	*62.5*		*109*	*70-130*			

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Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2835 - EPA 5030B (Water)										
LCS (B3L2835-BS1)					Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	51.2	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	47.8	2.00	"	50.0		95.5	70-130			
Benzene	46.2	1.00	"	50.0		92.5	70-130			
Ethylbenzene	44.7	1.00	"	50.0		89.4	70-130			
m,p-Xylene	90.4	2.00	"	100		90.4	70-130			
Naphthalene	52.0	2.00	"	50.0		104	70-130			
o-Xylene	45.2	1.00	"	50.0		90.5	70-130			
Toluene	45.2	1.00	"	50.0		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*60*		*"*	*62.5*		*96.6*	*70-130*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*99.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65*		*"*	*62.5*		*104*	*70-130*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2835 - EPA 5030B (Water)										
Matrix Spike (B3L2835-MS1)		**Source: Y312683-01**			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	50.7	2.00	ug/L	50.0	0.460	101	70-130			
1,3,5-Trimethylbenzene	47.1	2.00	"	50.0	0.670	92.8	70-130			
Benzene	44.3	1.00	"	50.0	ND	88.7	70-130			
Ethylbenzene	44.3	1.00	"	50.0	ND	88.5	70-130			
m,p-Xylene	88.5	2.00	"	100	1.46	87.1	70-130			
Naphthalene	47.2	2.00	"	50.0	0.650	93.1	70-130			
o-Xylene	44.5	1.00	"	50.0	ND	89.0	70-130			
Toluene	45.9	1.00	"	50.0	ND	91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*60*		*"*	*62.5*		*95.6*	*70-130*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*99.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65*		*"*	*62.5*		*104*	*70-130*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2835 - EPA 5030B (Water)										
Matrix Spike Dup (B3L2835-MSD1)		**Source: Y312683-01**			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1,2,4-Trimethylbenzene	50.8	2.00	ug/L	50.0	0.460	101	70-130	0.158	20	
1,3,5-Trimethylbenzene	47.1	2.00	"	50.0	0.670	92.8	70-130	0.0212	20	
Benzene	45.9	1.00	"	50.0	ND	91.9	70-130	3.54	20	
Ethylbenzene	43.5	1.00	"	50.0	ND	87.0	70-130	1.71	20	
m,p-Xylene	88.5	2.00	"	100	1.46	87.0	70-130	0.0904	20	
Naphthalene	51.2	2.00	"	50.0	0.650	101	70-130	8.15	20	
o-Xylene	44.9	1.00	"	50.0	ND	89.8	70-130	0.984	20	
Toluene	45.0	1.00	"	50.0	ND	90.1	70-130	1.83	20	
Surrogate: 1,2-Dichloroethane-d4	*61*		*"*	*62.5*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*99.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65*		*"*	*62.5*		*104*	*70-130*			

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Project: KMG - Sharkey 8&9-35 & 10-3 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

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
Batch B3L2824 - EPA 3050B										
Blank (B3L2824-BLK1)					Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Selenium	ND	0.0100	"							
LCS (B3L2824-BS1)					Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	5.18	0.0100	mg/kg	5.00		104	80-120			
Barium	528	1.00	"	500		106	80-120			
Cadmium	5.42	0.0100	"	5.00		108	80-120			
Selenium	4.99	0.0100	"	5.00		99.7	80-120			
Matrix Spike (B3L2824-MS1)		**Source: Y312751-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	7.19	0.0840	mg/kg	4.20	3.43	89.4	75-125			
Barium	541	8.40	"	420	103	104	75-125			
Cadmium	4.67	0.0840	"	4.20	0.120	108	75-125			
Selenium	4.08	0.0840	"	4.20	0.0881	94.9	75-125			
Matrix Spike Dup (B3L2824-MSD1)		**Source: Y312751-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	7.80	0.0916	mg/kg	4.58	3.43	95.3	75-125	8.06	20	
Barium	595	9.16	"	458	103	107	75-125	9.49	20	
Cadmium	5.20	0.0916	"	4.58	0.120	111	75-125	10.8	20	
Selenium	4.41	0.0916	"	4.58	0.0881	94.4	75-125	7.85	20	

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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
Batch B3L2917 - EPA 3050B										
Blank (B3L2917-BLK1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							
LCS (B3L2917-BS1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	5.01	0.0100	mg/kg	5.00		100	80-120			
Barium	494	1.00	"	500		98.9	80-120			
Cadmium	5.25	0.0100	"	5.00		105	80-120			
Copper	51.3	1.00	"	50.0		103	80-120			
Lead	5.11	0.100	"	5.00		102	80-120			
Nickel	4.96	0.100	"	5.00		99.3	80-120			
Selenium	4.97	0.0100	"	5.00		99.3	80-120			
Silver	5.25	0.0100	"	5.00		105	80-120			
Zinc	50.4	1.00	"	50.0		101	80-120			
Matrix Spike (B3L2917-MS1)		**Source: Y312766-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	8.51	0.0949	mg/kg	4.75	3.51	105	75-125			
Barium	552	9.49	"	475	36.4	109	75-125			
Cadmium	5.62	0.0949	"	4.75	0.131	116	75-125			
Copper	56.9	9.49	"	47.5	5.34	109	75-125			
Lead	10.4	0.949	"	4.75	5.10	112	75-125			

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2917 - EPA 3050B										
Matrix Spike (B3L2917-MS1)		**Source: Y312766-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Nickel	12.2	0.949	mg/kg	4.75	7.69	95.4	75-125			QM-07
Selenium	5.34	0.0949	"	4.75	0.152	109	75-125			
Silver	5.51	0.0949	"	4.75	0.0133	116	75-125			
Zinc	89.8	9.49	"	47.5	36.7	112	75-125			
Matrix Spike Dup (B3L2917-MSD1)		**Source: Y312766-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	9.42	0.0990	mg/kg	4.95	3.51	119	75-125	10.1	20	
Barium	593	9.90	"	495	36.4	113	75-125	7.28	20	
Cadmium	6.07	0.0990	"	4.95	0.131	120	75-125	7.64	20	
Copper	61.3	9.90	"	49.5	5.34	113	75-125	7.38	20	
Lead	11.2	0.990	"	4.95	5.10	122	75-125	6.93	20	
Nickel	14.3	0.990	"	4.95	7.69	133	75-125	15.4	20	QM-07
Selenium	5.72	0.0990	"	4.95	0.152	113	75-125	6.77	20	
Silver	5.91	0.0990	"	4.95	0.0133	119	75-125	6.93	20	
Zinc	93.9	9.90	"	49.5	36.7	116	75-125	4.47	20	

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Project Number: 09A1417396
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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2823 - EPA 3580										
Blank (B3L2823-BLK1)					Prepared: 12/28/2023 Analyzed: 12/29/2023					
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*210*		*ug/kg*	*200*		*106*	*60-130*			
Surrogate: Anthracene-d10	*170*		*"*	*200*		*85.9*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*116*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*102*	*60-130*			
LCS (B3L2823-BS1)					Prepared: 12/28/2023 Analyzed: 12/29/2023					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		99.9	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200		99.8	70-130			
Acenaphthene	0.217	0.020	"	0.200		108	70-130			
Anthracene	0.180	0.020	"	0.200		89.8	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2823 - EPA 3580										
LCS (B3L2823-BS1)					Prepared: 12/28/2023 Analyzed: 12/29/2023					
Benzo (a) anthracene	0.206	0.005	mg/kg	0.200		103	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.216	0.020	"	0.200		108	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.215	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.4	70-130			
Fluorene	0.239	0.020	"	0.200		119	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.216	0.002	"	0.200		108	70-130			
Phenanthrene	0.210	0.020	"	0.200		105	70-130			
Pyrene	0.238	0.020	"	0.200		119	70-130			
Surrogate: Fluorene-d10	*210*		*ug/kg*	*200*		*106*	*60-130*			
Surrogate: Anthracene-d10	*170*		*"*	*200*		*86.2*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*114*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*105*	*60-130*			
Matrix Spike (B3L2823-MS1)		**Source: Y312734-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.001	104	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	0.001	103	70-130			
Acenaphthene	0.225	0.020	"	0.200	ND	113	70-130			
Anthracene	0.182	0.020	"	0.200	ND	90.9	70-130			
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	108	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200	0.001	103	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.0007	109	70-130			
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2823 - EPA 3580										
Matrix Spike (B3L2823-MS1)		**Source: Y312734-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	0.001	102	70-130			
Chrysene	0.222	0.020	"	0.200	0.0008	111	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	0.001	109	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.0007	98.8	70-130			
Fluorene	0.244	0.020	"	0.200	ND	122	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.225	0.002	"	0.200	0.002	111	70-130			
Phenanthrene	0.215	0.020	"	0.200	ND	107	70-130			
Pyrene	0.251	0.020	"	0.200	0.001	125	70-130			
Surrogate: Fluorene-d10	*210*		*ug/kg*	*200*		*106*	*60-130*			
Surrogate: Anthracene-d10	*170*		*"*	*200*		*87.0*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*117*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*100*	*60-130*			
Matrix Spike Dup (B3L2823-MSD1)		**Source: Y312734-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	0.001	105	70-130	0.474	20	
2-Methylnaphthalene	0.209	0.002	"	0.200	0.001	104	70-130	0.716	20	
Acenaphthene	0.228	0.020	"	0.200	ND	114	70-130	1.18	20	
Anthracene	0.188	0.020	"	0.200	ND	93.8	70-130	3.19	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	1.57	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	0.001	102	70-130	1.03	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.0007	107	70-130	1.91	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	ND	108	70-130	0.374	20	
Benzo (k) fluoranthene	0.197	0.020	"	0.200	0.001	98.2	70-130	3.71	20	
Chrysene	0.226	0.020	"	0.200	0.0008	113	70-130	1.83	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.001	107	70-130	1.60	20	
Fluoranthene	0.195	0.020	"	0.200	0.0007	97.0	70-130	1.84	20	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2823 - EPA 3580										
Matrix Spike Dup (B3L2823-MSD1)		**Source: Y312734-01**			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Fluorene	0.241	0.020	mg/kg	0.200	ND	121	70-130	0.999	20	
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130	3.39	20	
Naphthalene	0.225	0.002	"	0.200	0.002	111	70-130	0.0207	20	
Phenanthrene	0.217	0.020	"	0.200	ND	109	70-130	1.37	20	
Pyrene	0.248	0.020	"	0.200	0.001	123	70-130	1.18	20	
Surrogate: Fluorene-d10	*210*		*ug/kg*	*200*		*106*	*60-130*			
Surrogate: Anthracene-d10	*170*		*"*	*200*		*87.5*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*113*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*102*	*60-130*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch B3L2818 - NO PREP										
Blank (B3L2818-BLK1)					Prepared: 12/28/2023 Analyzed: 12/30/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3L2818-BS1)					Prepared: 12/28/2023 Analyzed: 12/30/2023					
Total Dissolved Solids	998	5.00	mg/L	1030		96.9	90-110			
Duplicate (B3L2818-DUP1)		**Source: Y312741-03**			Prepared: 12/28/2023 Analyzed: 12/30/2023					
Total Dissolved Solids	2590	5.00	mg/L		2600			0.308	10	
Batch B3L2902 - DTPA Sorbitol Preparation										
Blank (B3L2902-BLK1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
Boron	ND	0.100	mg/L							
Duplicate (B3L2902-DUP1)		**Source: Y312751-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Boron	0.153	0.101	mg/L		0.156			1.99	50	
Batch B3L2906 - Saturated Paste Metals										
Blank (B3L2906-BLK1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3L2906-DUP1)		**Source: Y312745-11**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
SAR	ND	0.0100	SAR		12.3				200	
Calcium PPM	7.57	10.0	mg/L		4.77			45.4	50	
Magnesium PPM	5.21	10.0	"		3.68			34.4	50	
Sodium PPM	140	10.0	"		147			4.86	50	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch B3L2906 - Saturated Paste Metals										
Batch B3L2911 - Filter .45um non acidified										
Blank (B3L2911-BLK1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3L2911-BS1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Chloride	3.98	0.250	mg/L	4.00		99.4	90-110			
Sulfate	3.97	0.250	"	4.00		99.2	90-110			
Matrix Spike (B3L2911-MS1)		**Source: Y312736-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
Chloride	848	31.2	mg/L	500	341	101	90-110			
Sulfate	1220	31.2	"	500	680	109	90-110			
Matrix Spike Dup (B3L2911-MSD1)		**Source: Y312736-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
Chloride	851	31.2	mg/L	500	341	102	90-110	0.427	5	
Sulfate	1230	31.2	"	500	680	109	90-110	0.275	5	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2909 - Saturated Paste pH/EC										
Blank (B3L2909-BLK1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L2909-DUP1)		**Source: Y312745-11**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
pH	8.56		pH Units		8.61			0.582	25	
Specific Conductance (EC)	0.823	0.00500	mmhos/cm		0.799			2.96	25	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch L726184 -										
DUP (L 85044-DUP)		**Source: Y312757-08**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 85044-MS)		**Source: Y312757-08**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	29.8	2.5	mg/Kg	39	<1.22	76	75-125			
LCS (LCS)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	6.4	0.5	mg/Kg	8		80	75-125			
LRB (LRB)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

Notes and Definitions

U	Sample is Non-Detect.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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.

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

January 16, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Sharkey 8&9-35 & 10-3 O SA Facility Project Number - 09A1417396

Attached are your analytical results for KMG - Sharkey 8&9-35 & 10-3 O SA Facility received by Origins Laboratory, Inc. December 29, 2023. This project is associated with Origins project number Y312797-01.

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

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

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

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

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

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

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-INLET@4'	Y312797-01	Soil	December 29, 2023 14:30	12/29/2023 17:13
SEP01-OUTLET@4'	Y312797-02	Soil	December 29, 2023 14:32	12/29/2023 17:13
SEP02-INLET@4'	Y312797-03	Soil	December 29, 2023 15:00	12/29/2023 17:13
SEP02-OUTLET@4'	Y312797-04	Soil	December 29, 2023 15:02	12/29/2023 17:13
FL01@4'	Y312797-05	Soil	December 29, 2023 15:15	12/29/2023 17:13
FL02@4'	Y312797-06	Soil	December 29, 2023 15:17	12/29/2023 17:13
NATIVE-BG01@3'	Y312797-07	Soil	December 29, 2023 15:42	12/29/2023 17:13
NATIVE-BG01@6'	Y312797-08	Soil	December 29, 2023 15:43	12/29/2023 17:13
NATIVE-BG02@3'	Y312797-09	Soil	December 29, 2023 15:50	12/29/2023 17:13
NATIVE-BG02@6'	Y312797-10	Soil	December 29, 2023 15:52	12/29/2023 17:13
SEP01-GW01	Y312797-11	Water	December 29, 2023 0:00	12/29/2023 17:13
SEP02-GW01	Y312797-12	Water	December 29, 2023 0:00	12/29/2023 17:13
FL01-GW01	Y312797-13	Water	December 29, 2023 0:00	12/29/2023 17:13
FL02-GW01	Y312797-14	Water	December 29, 2023 0:00	12/29/2023 17:13

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-BG01	Y312797-15	Water	December 29, 2023 0:00	12/29/2023 17:13
GW-BG02	Y312797-16	Water	December 29, 2023 0:00	12/29/2023 17:13

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

ORIGINS LABORATORY, INC

www.originslaboratory.com

Initial 4312797

page 1 of 2

Client: Ensolum
Address:
Telephone Number:
Email Address: KMGTeam

Project Name ~~Project Manager~~: Sharkey 8&9-35 & 10-3 O SA Facility
Project Manager ~~Project Name~~: J. Espinoza
Project Number: 09A1417396
Samples Collected By: HK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative: Unpreserved	HCl	HNO_3	Other	Matrix: Groundwater	Soil	Air Summa Canister #	Other	Analysis: Fulltlist	BTEXN TMBs	TPH ~~PH~~	PH, EC, SAR	Metals in Soil	Sample Instructions
SEPO1-INLET@4'	12/29/23	1430	3	X					X				X	X	X	X	All 3 bottles added to SEPO1-INLET & SEPO1-OUTLET
SEPO1-OUTLET@4'		1432											X	X	X	X	8OZ-INLET & 8OZ-INLET per Native samples email on 12/29 jb
SEPO2-INLET@4'		1500											X	X	X	X	
SEPO2-OUTLET@4'		1502										X					4
FLO1@4'		1515										X					5
FLO2@4'		1517										X					6
NATIVE-BGO1@3'		1542													X	X	7
NATIVE-BGO1@6'		1543													X	X	8
NATIVE-BGO2@3'		1550													X	X	9
NATIVE-BGO2@6'		1552													X	X	10

Relinquished By: [signature] Date: 12/29/23 Time: 1715 Received By: [signature] Date: 12/29/23 Time: 1715

Relinquished By: Date: Time: Received By: Date: Time:

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received- 4 Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

ORIGINS LABORATORY, INC

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page 2 of 2

Y312797

Client: Ensolum
Address:
Telephone Number:
Email Address: KMGTeam

Project Manager: J. Espinoza
Project Name: Sharkey 8&9-35 & 10-3 O SA Facility
Project Number: 09A1417396
Samples Collected By: HK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative: Unpreserved	HCl	HNO_3	Other	Matrix: Groundwater	Soil	Air Summa Canister #	Other	Analysis: BTEXN	TMBS	TDS	Sulfides	Chlorides	Sample Instructions
SEP01-GW01	12/8/23		4	X				X				X	X	X	X	X	1
SEP03-GW07												X	X				2
FL01-GW01												X	X				3
FL02-GW01												X	X				4
GW-B601																	5
GW-B603																	6
																	7
																	8
																	9
																	10

Relinquished By: Date: 12/8/23 Time: 1715 Received By: Date: 12/8/23 Time: 1715

Relinquished By: Date: Time: Received By: Date: Time:

Turnaround Time: Same Day X 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received- 4 Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4312797

Client: Ensolum
Client Project ID: Sharkey 8&9-35 & 10-3

Checklist Completed by: EHS
Date/time completed: 12/29/23

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: TOD4

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		X		
Is a chain-of-custody (COC) present and filled out completely[1]?		X		
Does the COC agree with the number and type of sample bottles received[1]?		X		
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			X	

Additional Comments (if any): No times for waters
Received 4 containers for GW-BH01 + GW-BH02

[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.*

Reviewed by (Project Manager) 12/29/23 Date/Time Reviewed

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-INLET@4'
12/29/2023 2:30:00PM

Origins Laboratory, Inc.
Y312797-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.292**		0.0991	mg/L	1	B4A1009	01/10/2024	01/11/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*94.1 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2927	12/29/2023	12/29/2023	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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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-INLET@4'
12/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y312797-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*			*B3L2927*	*12/29/2023*	*12/29/2023*
Surrogate: Toluene-d8	*103 %*		*70-130*			*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*88.7 %*		*70-130*			*"*	*"*	*"*

Metals by Saturated Paste by EPA 6010

Calcium	**3.57**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024
Magnesium	**1.85**		0.823	"	"	"	"	"
Sodium	**9.36**		0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1029	01/10/2024	01/11/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-INLET@4'
12/29/2023 2:30:00PM

Origins Laboratory, Inc.
Y312797-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Fluoranthene	ND		0.020	mg/kg	1	B4A1029	01/10/2024	01/11/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*98.0 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*105 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*99.3 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*98.3 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.29**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**5.69**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.58**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-INLET@4'
12/29/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-01 (Soil)									
Table 915 metals by EPA 6020B									
Arsenic	**2.89**		0.0986	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**117**		9.86	"	"	"	"	"	
Cadmium	**0.186**		0.0986	"	"	"	"	"	
Copper	**11.5**		9.86	"	"	"	"	"	
Lead	**10.5**		0.986	"	"	"	"	"	
Nickel	**7.66**		0.986	"	"	"	"	"	
Selenium	**0.174**		0.0986	"	"	"	"	"	
Silver	ND		0.0986	"	"	"	"	"	
Zinc	**54.6**		9.86	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L726093	12/29/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-OUTLET@4'
12/29/2023 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-02 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**1.31**		1.01	mg/L	10	B4A1009	01/10/2024	01/11/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*89.3 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2927	12/29/2023	12/29/2023	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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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-OUTLET@4'
12/29/2023 2:32:00PM

Origins Laboratory, Inc.
Y312797-02 (Soil)

GBTEX+TMBs by 8260D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70-130*			*B3L2927*	*12/29/2023*	*12/29/2023*	
Surrogate: Toluene-d8	*101 %*		*70-130*			*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*90.6 %*		*70-130*			*"*	*"*	*"*	

Metals by Saturated Paste by EPA 6010

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Calcium	**2.09**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024	
Magnesium	**1.46**		0.823	"	"	"	"	"	
Sodium	**8.55**		0.435	"	"	"	"	"	

PAH by EPA 8270E

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A1029	01/10/2024	01/11/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-OUTLET@4'
12/29/2023 2:32:00PM

Origins Laboratory, Inc.
Y312797-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Fluoranthene	ND		0.020	mg/kg	1	B4A1029	01/10/2024	01/11/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*97.6 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*107 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*99.0 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*99.4 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.45**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**6.41**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.28**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-OUTLET@4'
12/29/2023 2:32:00PM

Origins Laboratory, Inc.
Y312797-02 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Arsenic	**3.30**		0.0899	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**329**		8.99	"	"	"	"	"	
Cadmium	**0.201**		0.0899	"	"	"	"	"	
Copper	**21.0**		8.99	"	"	"	"	"	
Lead	**19.7**		0.899	"	"	"	"	"	
Nickel	**14.0**		0.899	"	"	"	"	"	
Selenium	**0.364**		0.0899	"	"	"	"	"	
Silver	**0.110**		0.0899	"	"	"	"	"	
Zinc	**101**		8.99	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L726093	12/29/2023	01/04/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-INLET@4'
12/29/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-03 (Soil)									
Boron (DTPA Sorbitol)									
Boron	ND		1.01	mg/L	10	B4A1009	01/10/2024	01/11/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*88.9 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2927	12/29/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	**0.00576**		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	**0.662**		0.200	"	"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-INLET@4'
12/29/2023 3:00:00PM

Origins Laboratory, Inc.
Y312797-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*			*B3L2927*	*12/29/2023*	*12/29/2023*	
Surrogate: Toluene-d8	*102 %*		*70-130*			*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*90.1 %*		*70-130*			*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	**2.16**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024	
Magnesium	**0.993**		0.823	"	"	"	"	"	
Sodium	**3.13**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A0318	01/03/2024	01/03/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-INLET@4'
12/29/2023 3:00:00PM

Origins Laboratory, Inc.
Y312797-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B4A0318	01/03/2024	01/03/2024	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*93.0 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*87.5 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*106 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*98.4 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.30**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**2.49**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.701**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-INLET@4'
12/29/2023 3:00:00PM

Origins Laboratory, Inc.
Y312797-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Table 915 metals by EPA 6020B									
Arsenic	**2.67**		0.0962	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**123**		9.62	"	"	"	"	"	
Cadmium	**0.268**		0.0962	"	"	"	"	"	
Copper	**13.0**		9.62	"	"	"	"	"	
Lead	**19.0**		0.962	"	"	"	"	"	
Nickel	**7.96**		0.962	"	"	"	"	"	
Selenium	**0.297**		0.0962	"	"	"	"	"	
Silver	ND		0.0962	"	"	"	"	"	
Zinc	**66.2**		9.62	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L726093	12/29/2023	01/04/2024	

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ORIGINS LABORATORY, INC

Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-OUTLET@4'
12/29/2023 3:02:00PM

Origins Laboratory, Inc.
Y312797-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.469**		0.0999	mg/L	1	B4A0210	01/02/2024	01/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*85.1 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.0671**		0.00200	mg/kg	1	B3L2927	12/29/2023	12/29/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	**0.400**		0.00200	"	"	"	"	"	
Ethylbenzene	**0.0268**		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	**0.0424**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**9.09**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*103 %*		*70-130*			"	"	"	

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-OUTLET@4'
12/29/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y312797-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	*95.1 %*		*70-130*			*B3L2927*	*12/29/2023*	*12/29/2023*	

Metals by Saturated Paste by EPA 6010

Calcium	**1.56**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024	
Magnesium	**0.977**		0.823	"	"	"	"	"	
Sodium	**3.34**		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2923	12/29/2023	12/30/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-OUTLET@4'
12/29/2023 3:02:00PM

Origins Laboratory, Inc.
Y312797-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2923	12/29/2023	12/30/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*90.9 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*95.3 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*109 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*104 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.44**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**2.97**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.616**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**2.69**		0.0924	mg/kg	10	B3L2925	12/29/2023	01/02/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-OUTLET@4'
12/29/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y312797-04 (Soil)

Table 915 metals by EPA 6020B

Barium	**125**		9.24	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Cadmium	**0.152**		0.0924	"	"	"	"	"	
Copper	**10.5**		9.24	"	"	"	"	"	
Lead	**11.6**		0.924	"	"	"	"	"	
Nickel	**7.49**		0.924	"	"	"	"	"	
Selenium	**0.180**		0.0924	"	"	"	"	"	
Silver	ND		0.0924	"	"	"	"	"	
Zinc	**61.6**		9.24	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726093	12/29/2023	01/04/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL01@4'
12/29/2023 3:15:00PM

Origins Laboratory, Inc.
Y312797-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.237**		0.0997	mg/L	1	B4A0210	01/02/2024	01/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*84.2 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.0924**		0.00200	mg/kg	1	B3L2927	12/29/2023	12/29/2023	
1,3,5-Trimethylbenzene	**0.00336**		0.00200	"	"	"	"	"	
Benzene	**0.00502**		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	**6.70**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*104 %*		*70-130*			"	"	"	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL01@4'
12/29/2023 3:15:00PM

Origins Laboratory, Inc.
Y312797-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*104 %*		*70-130*			*B3L2927*	*12/29/2023*	*12/29/2023*	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.29**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**4.18**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.004**		0.002	mg/kg	1	B3L2923	12/29/2023	12/30/2023	
2-Methylnaphthalene	**0.007**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL01@4'
12/29/2023 3:15:00PM

Origins Laboratory, Inc.
Y312797-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2923	12/29/2023	12/30/2023	U
Naphthalene	**0.003**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*95.2 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*87.7 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*105 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*103 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.41**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**4.31**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.715**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**1.98**		0.0841	mg/kg	10	B3L2925	12/29/2023	01/02/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL01@4'
12/29/2023 3:15:00PM

Origins Laboratory, Inc.
Y312797-05 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Barium	**96.9**		8.41	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Cadmium	**0.105**		0.0841	"	"	"	"	"	
Copper	**8.48**		8.41	"	"	"	"	"	
Lead	**7.77**		0.841	"	"	"	"	"	
Nickel	**6.15**		0.841	"	"	"	"	"	
Selenium	**0.0992**		0.0841	"	"	"	"	"	
Silver	ND		0.0841	"	"	"	"	"	
Zinc	**59.8**		8.41	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L726179	12/29/2023	01/04/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL02@4'
12/29/2023 3:17:00PM

Origins Laboratory, Inc.
Y312797-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.999	mg/L	10	B4A0210	01/02/2024	01/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	**106**		25.0	mg/kg	1	B3L2928	12/29/2023	12/29/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*97.6 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.960**		0.0500	mg/kg	25	B3L2927	12/29/2023	12/30/2023	
1,3,5-Trimethylbenzene	**0.0918**		0.00200	"	1	"	"	12/30/2023	
Benzene	**0.0342**		0.00200	"	"	"	"	"	
Ethylbenzene	**0.145**		0.00200	"	"	"	"	"	
Toluene	**0.0195**		0.00200	"	"	"	"	"	
Xylenes, total	**0.122**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**441**		5.00	"	25	"	"	12/30/2023	
Surrogate: 1,2-Dichloroethane-d4	*98.4 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*117 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*139 %*		*70-130*			"	"	"	*S-GC*

Origins Laboratory, Inc.

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL02@4'
12/29/2023 3:17:00PM

Origins Laboratory, Inc.
Y312797-06 (Soil)

Metals by Saturated Paste by EPA 6010

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Calcium	**0.753**		0.499	meq/L	10	[CALC]	01/02/2024	01/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**5.91**		0.435	"	"	"	"	"	

PAH by EPA 8270E

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	**0.179**		0.002	mg/kg	1	B3L2923	12/29/2023	12/30/2023	
2-Methylnaphthalene	**0.395**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	**0.192**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*91.6 %*		*60-130*			"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL02@4'
12/29/2023 3:17:00PM

Origins Laboratory, Inc.
Y312797-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Surrogate: Anthracene-d10	*95.0 %*		*60-130*			*B3L2923*	*12/29/2023*	*12/30/2023*	
Surrogate: Pyrene-d10	*102 %*		*60-130*			*"*	*"*	*"*	
Surrogate: Benzo (a) pyrene-d12	*103 %*		*60-130*			*"*	*"*	*"*	
pH in Soil by 9045D									
pH	**7.21**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**7.36**		0.0100	SAR	1	B4A0206	01/02/2024	01/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.661**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**3.89**		0.0919	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**209**		9.19	"	"	"	"	"	
Cadmium	**0.341**		0.0919	"	"	"	"	"	
Copper	**17.5**		9.19	"	"	"	"	"	
Lead	**15.2**		0.919	"	"	"	"	"	
Nickel	**14.0**		0.919	"	"	"	"	"	
Selenium	**0.357**		0.0919	"	"	"	"	"	

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL02@4'
12/29/2023 3:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-06 (Soil)									
Table 915 metals by EPA 6020B									
Silver	ND		0.0919	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Zinc	**87.9**		9.19	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L726179	12/29/2023	01/04/2024	

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ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG01@3'
12/29/2023 3:42:00PM

Origins Laboratory, Inc.
Y312797-07 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.999	mg/L	10	B4A1009	01/10/2024	01/11/2024	
Metals by Saturated Paste by EPA 6010									
Calcium	**3.13**		0.499	meq/L	"	[CALC]	01/02/2024	01/04/2024	
Magnesium	**1.73**		0.823	"	"	"	"	"	
Sodium	**9.28**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.55**			pH Units	1	B4A0213	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**5.95**		0.0100	SAR	1	B4A0206	01/02/2024	01/04/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.12**		0.00500	mmhos/cm	1	B4A0213	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**5.57**		0.0969	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**225**		9.69	"	"	"	"	"	
Cadmium	**0.247**		0.0969	"	"	"	"	"	
Copper	**15.8**		9.69	"	"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG01@3'
12/29/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-07 (Soil)									
Table 915 metals by EPA 6020B									
Lead	**13.9**		0.969	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Nickel	**11.3**		0.969	"	"	"	"	"	
Selenium	**0.677**		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	**84.3**		9.69	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L726179	12/29/2023	01/04/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG01@6'
12/29/2023 3:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-08 (Soil)									
Boron (DTPA Sorbitol)									
Boron	ND		1.01	mg/L	10	B4A1009	01/10/2024	01/11/2024	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.36**		0.499	meq/L	"	[CALC]	01/02/2024	01/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**2.97**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.28**			pH Units	1	B4A0214	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**3.00**		0.0100	SAR	1	B4A0207	01/02/2024	01/04/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.616**		0.00500	mmhos/cm	1	B4A0214	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**2.00**		0.0964	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**182**		9.64	"	"	"	"	"	
Cadmium	ND		0.0964	"	"	"	"	"	
Copper	**10.8**		9.64	"	"	"	"	"	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG01@6'
12/29/2023 3:43:00PM

Origins Laboratory, Inc.
Y312797-08 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Lead	**9.74**		0.964	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Nickel	**7.62**		0.964	"	"	"	"	"	
Selenium	**0.110**		0.0964	"	"	"	"	"	
Silver	ND		0.0964	"	"	"	"	"	
Zinc	**59.3**		9.64	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726179	12/29/2023	01/04/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG02@3'
12/29/2023 3:50:00PM

Origins Laboratory, Inc.
Y312797-09 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	ND		0.0991	mg/L	1	B4A1009	01/10/2024	01/11/2024	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.68**		0.499	meq/L	10	[CALC]	01/02/2024	01/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.27**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.26**			pH Units	1	B4A0214	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**1.18**		0.0100	SAR	1	B4A0207	01/02/2024	01/04/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.413**		0.00500	mmhos/cm	1	B4A0214	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**0.970**		0.0890	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**15.5**		8.90	"	"	"	"	"	
Cadmium	ND		0.0890	"	"	"	"	"	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG02@3'
12/29/2023 3:50:00PM

Origins Laboratory, Inc.
Y312797-09 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Copper	ND		8.90	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Lead	**2.96**		0.890	"	"	"	"	"	
Nickel	**1.13**		0.890	"	"	"	"	"	
Selenium	ND		0.0890	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	**10.6**		8.90	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L726179	12/29/2023	01/04/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG02@6'
12/29/2023 3:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-10 (Soil)									
Boron (DTPA Sorbitol)									
Boron	ND		0.0993	mg/L	1	B4A1009	01/10/2024	01/11/2024	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.70**		0.499	meq/L	10	[CALC]	01/02/2024	01/04/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	**1.41**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.27**			pH Units	1	B4A0214	01/02/2024	01/03/2024	
SAR by 20B Saturated Paste									
SAR	**1.30**		0.0100	SAR	1	B4A0207	01/02/2024	01/04/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.439**		0.00500	mmhos/cm	1	B4A0214	01/02/2024	01/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**0.745**		0.0850	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Barium	**16.8**		8.50	"	"	"	"	"	
Cadmium	ND		0.0850	"	"	"	"	"	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

NATIVE-BG02@6'
12/29/2023 3:52:00PM

Origins Laboratory, Inc.
Y312797-10 (Soil)

Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Copper	ND		8.50	mg/kg	10	B3L2925	12/29/2023	01/02/2024	
Lead	**3.07**		0.850	"	"	"	"	"	
Nickel	**1.26**		0.850	"	"	"	"	"	
Selenium	ND		0.0850	"	"	"	"	"	
Silver	ND		0.0850	"	"	"	"	"	
Zinc	**10.8**		8.50	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726179	12/29/2023	01/04/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP01-GW01
12/29/2023 12:00:00AM

Origins Laboratory, Inc.
Y312797-11 (Water)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Anions by IC 300.0									
Chloride	**224**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**302**		31.2	"	"	"	"	"	
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B3L2930	12/29/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	**1.84**		1.00	"	"	"	"	"	
Ethylbenzene	**1.05**		1.00	"	"	"	"	"	
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	**5.84**		1.00	"	"	"	"	"	
Xylenes, total	**6.26**		1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*105 %*		*70-130*			"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**1180**		5.00	mg/L	1	B4A0219	01/02/2024	01/03/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

SEP02-GW01
12/29/2023 12:00:00AM

Origins Laboratory, Inc.
Y312797-12 (Water)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Anions by IC 300.0									
Chloride	**217**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**172**		31.2	"	"	"	"	"	
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	**25.1**		2.00	ug/L	1	B3L2930	12/29/2023	12/29/2023	
1,3,5-Trimethylbenzene	**10.6**		2.00	"	"	"	"	"	
Benzene	**93.9**		1.00	"	"	"	"	"	
Ethylbenzene	**7.62**		1.00	"	"	"	"	"	
Naphthalene	**48.0**		2.00	"	"	"	"	"	
Toluene	**30.6**		1.00	"	"	"	"	"	
Xylenes, total	**64.4**		1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*113 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*		*70-130*			"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**1050**		5.00	mg/L	1	B4A0219	01/02/2024	01/03/2024	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL01-GW01
12/29/2023 12:00:00AM

Origins Laboratory, Inc.
Y312797-13 (Water)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Anions by IC 300.0									
Chloride	**193**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**196**		31.2	"	"	"	"	"	
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	**30.6**		2.00	ug/L	1	B3L2930	12/29/2023	12/29/2023	
1,3,5-Trimethylbenzene	**10.4**		2.00	"	"	"	"	"	
Benzene	**64.0**		1.00	"	"	"	"	"	
Ethylbenzene	**11.9**		1.00	"	"	"	"	"	
Naphthalene	**6.77**		2.00	"	"	"	"	"	
Toluene	**60.2**		1.00	"	"	"	"	"	
Xylenes, total	**104**		1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*110 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*104 %*		*70-130*			"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**968**		5.00	mg/L	1	B4A0220	01/02/2024	01/03/2024	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

FL02-GW01
12/29/2023 12:00:00AM

Origins Laboratory, Inc.
Y312797-14 (Water)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Anions by IC 300.0									
Chloride	**174**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**64.2**		31.2	"	"	"	"	"	
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B3L2930	12/29/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	**78.2**		1.00	"	"	"	"	"	
Ethylbenzene	**4.65**		1.00	"	"	"	"	"	
Naphthalene	**74.4**		2.00	"	"	"	"	"	
Toluene	**3.91**		1.00	"	"	"	"	"	
Xylenes, total	**6.88**		1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*99.8 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*114 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*104 %*		*70-130*			"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**756**		5.00	mg/L	1	B4A0220	01/02/2024	01/03/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

GW-BG01
12/29/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-15 (Water)									
Anions by IC 300.0									
Chloride	**225**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**256**		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**1180**		5.00	"	1	B4A0220	01/02/2024	01/03/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

GW-BG02
12/29/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y312797-16 (Water)									
Anions by IC 300.0									
Chloride	**190**		31.2	mg/L	125	B4A0204	01/02/2024	01/02/2024	
Sulfate	**231**		31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	**3560**		5.00	"	1	B4A0220	01/02/2024	01/03/2024	

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2927 - EPA 5030 (soil)										
Blank (B3L2927-BLK1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
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	*0.13*		*"*	*0.125*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.13*		*"*	*0.125*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.11*		*"*	*0.125*		*90.8*	*70-130*			

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Project Number: 09A1417396
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2927 - EPA 5030 (soil)										
LCS (B3L2927-BS1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100		88.7	70-130			
1,3,5-Trimethylbenzene	0.0871	0.00200	"	0.100		87.1	70-130			
Benzene	0.0912	0.00200	"	0.100		91.2	70-130			
Ethylbenzene	0.0894	0.00200	"	0.100		89.4	70-130			
Naphthalene	0.0848	0.00380	"	0.100		84.8	70-130			
Toluene	0.0831	0.00200	"	0.100		83.1	70-130			
o-Xylene	0.0898	0.00200	"	0.100		89.8	70-130			
m,p-Xylene	0.179	0.00400	"	0.200		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.12*		*"*	*0.125*		*96.6*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*99.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*96.4*	*70-130*			

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2927 - EPA 5030 (soil)										
Matrix Spike (B3L2927-MS1)		**Source: Y312797-01**			Prepared: 12/29/2023 Analyzed: 12/29/2023					
1,2,4-Trimethylbenzene	0.0861	0.00200	mg/kg	0.100	ND	86.1	70-130			
1,3,5-Trimethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130			
Ethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
Naphthalene	0.0729	0.00380	"	0.100	ND	72.9	70-130			
Toluene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
o-Xylene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.13*		*"*	*0.125*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*99.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*99.2*	*70-130*			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2927 - EPA 5030 (soil)										
Matrix Spike Dup (B3L2927-MSD1)		**Source: Y312797-01**		Prepared: 12/29/2023 Analyzed: 12/29/2023						
1,2,4-Trimethylbenzene	0.0846	0.00200	mg/kg	0.100	ND	84.6	70-130	1.71	20	
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	2.60	20	
Benzene	0.0936	0.00200	"	0.100	ND	93.6	70-130	1.53	20	
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	0.882	20	
Naphthalene	0.0760	0.00380	"	0.100	ND	76.0	70-130	4.22	20	
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130	2.71	20	
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130	0.176	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.6	70-130	0.241	20	
Surrogate: 1,2-Dichloroethane-d4	*0.13*		*"*	*0.125*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.12*		*"*	*0.125*		*99.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*99.1*	*70-130*			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2928 - EPA 3550B										
Blank (B3L2928-BLK1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*30*		*"*	*24.9*		*122*	*50-150*			

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Jeremy Espinoza
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Project: KMG - Sharkey 8&9-35 & 10-3 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 B3L2928 - EPA 3550B										
LCS (B3L2928-BS1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
Diesel (C10-C28)	940	50.0	mg/kg	1000		94.0	70-130			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	70-130			
Surrogate: o-Terphenyl	*61*		*"*	*49.8*		*123*	*50-150*			

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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 B3L2928 - EPA 3550B										
Matrix Spike (B3L2928-MS1)		**Source: Y312797-01**			Prepared: 12/29/2023 Analyzed: 12/29/2023					
Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130			
Residual Range Organics (C28-C40)	978	200	"	1000	ND	97.8	70-130			
Surrogate: o-Terphenyl	*47*		*"*	*49.8*		*94.3*	*50-150*			

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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 B3L2928 - EPA 3550B										
Matrix Spike Dup (B3L2928-MSD1)		**Source: Y312797-01**			Prepared: 12/29/2023 Analyzed: 12/29/2023					
Diesel (C10-C28)	966	50.0	mg/kg	1000	ND	96.6	70-130	2.19	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	2.42	35	
Surrogate: o-Terphenyl	*47*		*"*	*49.8*		*94.8*	*50-150*			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2930 - EPA 5030B (Water)										
Blank (B3L2930-BLK1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	*62*		*"*	*62.5*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65*		*"*	*62.5*		*104*	*70-130*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2930 - EPA 5030B (Water)										
LCS (B3L2930-BS1)					Prepared: 12/29/2023 Analyzed: 12/29/2023					
1,2,4-Trimethylbenzene	53.6	2.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	50.3	2.00	"	50.0		101	70-130			
Benzene	47.8	1.00	"	50.0		95.5	70-130			
Ethylbenzene	47.0	1.00	"	50.0		94.0	70-130			
m,p-Xylene	95.4	2.00	"	100		95.4	70-130			
Naphthalene	52.8	2.00	"	50.0		106	70-130			
o-Xylene	47.0	1.00	"	50.0		94.1	70-130			
Toluene	47.9	1.00	"	50.0		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*61*		*"*	*62.5*		*97.8*	*70-130*			
Surrogate: Toluene-d8	*63*		*"*	*62.5*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*64*		*"*	*62.5*		*102*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2930 - EPA 5030B (Water)										
Matrix Spike (B3L2930-MS1)		**Source: Y312778-01**			Prepared: 12/29/2023 Analyzed: 12/29/2023					
1,2,4-Trimethylbenzene	54.6	2.00	ug/L	50.0	ND	109	70-130			
1,3,5-Trimethylbenzene	50.8	2.00	"	50.0	ND	102	70-130			
Benzene	48.2	1.00	"	50.0	ND	96.5	70-130			
Ethylbenzene	47.3	1.00	"	50.0	ND	94.5	70-130			
m,p-Xylene	96.9	2.00	"	100	ND	96.9	70-130			
Naphthalene	50.8	2.00	"	50.0	0.570	101	70-130			
o-Xylene	47.4	1.00	"	50.0	ND	94.9	70-130			
Toluene	48.6	1.00	"	50.0	ND	97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*61*		*"*	*62.5*		*97.0*	*70-130*			
Surrogate: Toluene-d8	*64*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*64*		*"*	*62.5*		*103*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2930 - EPA 5030B (Water)										
Matrix Spike Dup (B3L2930-MSD1)		**Source: Y312778-01**		Prepared: 12/29/2023 Analyzed: 12/29/2023						
1,2,4-Trimethylbenzene	53.0	2.00	ug/L	50.0	ND	106	70-130	3.03	20	
1,3,5-Trimethylbenzene	49.4	2.00	"	50.0	ND	98.8	70-130	2.87	20	
Benzene	46.1	1.00	"	50.0	ND	92.1	70-130	4.62	20	
Ethylbenzene	46.0	1.00	"	50.0	ND	92.0	70-130	2.77	20	
m,p-Xylene	92.9	2.00	"	100	ND	92.9	70-130	4.26	20	
Naphthalene	54.0	2.00	"	50.0	0.570	107	70-130	6.10	20	
o-Xylene	46.6	1.00	"	50.0	ND	93.3	70-130	1.72	20	
Toluene	46.8	1.00	"	50.0	ND	93.5	70-130	3.90	20	
Surrogate: 1,2-Dichloroethane-d4	*59*		*"*	*62.5*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*63*		*"*	*62.5*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*65*		*"*	*62.5*		*103*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

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
Batch B3L2925 - EPA 3050B										
Blank (B3L2925-BLK1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							
LCS (B3L2925-BS1)					Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	5.44	0.0100	mg/kg	5.00		109	80-120			
Barium	519	1.00	"	500		104	80-120			
Cadmium	5.42	0.0100	"	5.00		108	80-120			
Copper	54.5	1.00	"	50.0		109	80-120			
Lead	5.22	0.100	"	5.00		104	80-120			
Nickel	5.15	0.100	"	5.00		103	80-120			
Selenium	4.97	0.0100	"	5.00		99.4	80-120			
Silver	5.46	0.0100	"	5.00		109	80-120			
Zinc	52.4	1.00	"	50.0		105	80-120			
Matrix Spike (B3L2925-MS1)		**Source: Y312790-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					

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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
Batch B3L2925 - EPA 3050B										
Matrix Spike (B3L2925-MS1)		**Source: Y312790-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	7.75	0.0898	mg/kg	4.49	1.91	130	75-125			QM-07
Barium	591	8.98	"	449	41.8	122	75-125			
Cadmium	5.79	0.0898	"	4.49	0.148	126	75-125			QM-07
Copper	57.8	8.98	"	44.9	4.75	118	75-125			
Lead	11.0	0.898	"	4.49	4.80	138	75-125			QM-07
Nickel	9.98	0.898	"	4.49	4.08	132	75-125			QM-07
Selenium	5.02	0.0898	"	4.49	0.157	108	75-125			
Silver	5.59	0.0898	"	4.49	0.0160	124	75-125			
Zinc	80.1	8.98	"	44.9	23.4	126	75-125			QM-07
Matrix Spike Dup (B3L2925-MSD1)		**Source: Y312790-01**			Prepared: 12/29/2023 Analyzed: 01/02/2024					
Arsenic	7.38	0.0977	mg/kg	4.88	1.91	112	75-125	4.87	20	QM-07
Barium	574	9.77	"	488	41.8	109	75-125	3.06	20	
Cadmium	5.65	0.0977	"	4.88	0.148	113	75-125	2.40	20	QM-07
Copper	58.1	9.77	"	48.8	4.75	109	75-125	0.463	20	
Lead	10.2	0.977	"	4.88	4.80	111	75-125	7.34	20	QM-07
Nickel	9.98	0.977	"	4.88	4.08	121	75-125	0.0231	20	QM-07
Selenium	5.49	0.0977	"	4.88	0.157	109	75-125	8.85	20	
Silver	5.41	0.0977	"	4.88	0.0160	110	75-125	3.24	20	
Zinc	79.1	9.77	"	48.8	23.4	114	75-125	1.35	20	QM-07

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2923 - EPA 3580										
Blank (B3L2923-BLK1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*190*		*ug/kg*	*200*		*96.0*	*60-130*			
Surrogate: Anthracene-d10	*180*		*"*	*200*		*90.9*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*115*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*100*	*60-130*			
LCS (B3L2923-BS1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200		97.1	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		94.1	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.170	0.020	"	0.200		84.8	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2923 - EPA 3580										
LCS (B3L2923-BS1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Benzo (a) anthracene	0.198	0.005	mg/kg	0.200		99.2	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.4	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200		98.0	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		94.1	70-130			
Benzo (k) fluoranthene	0.187	0.020	"	0.200		93.5	70-130			
Chrysene	0.196	0.020	"	0.200		98.2	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200		105	70-130			
Fluoranthene	0.229	0.020	"	0.200		115	70-130			
Fluorene	0.180	0.020	"	0.200		90.1	70-130			
Indeno (1,2,3-cd) pyrene	0.166	0.020	"	0.200		83.2	70-130			
Naphthalene	0.197	0.002	"	0.200		98.6	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.3	70-130			
Pyrene	0.224	0.020	"	0.200		112	70-130			
Surrogate: Fluorene-d10	*180*		*ug/kg*	*200*		*91.2*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*96.7*	*60-130*			
Surrogate: Pyrene-d10	*220*		*"*	*200*		*111*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*60-130*			
Matrix Spike (B3L2923-MS1)		**Source: Y312782-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	0.0004	103	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200	ND	100	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130			
Anthracene	0.191	0.020	"	0.200	0.002	94.4	70-130			
Benzo (a) anthracene	0.215	0.005	"	0.200	0.002	107	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	0.004	98.3	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.002	104	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.003	94.5	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2923 - EPA 3580										
Matrix Spike (B3L2923-MS1)		**Source: Y312782-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.003	92.9	70-130			
Chrysene	0.225	0.020	"	0.200	0.001	112	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.005	108	70-130			
Fluoranthene	0.235	0.020	"	0.200	0.0008	117	70-130			
Fluorene	0.199	0.020	"	0.200	0.0004	99.5	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.005	93.0	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.0009	97.2	70-130			
Pyrene	0.243	0.020	"	0.200	ND	121	70-130			
Surrogate: Fluorene-d10	*190*		*ug/kg*	*200*		*96.2*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*106*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*105*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*102*	*60-130*			
Matrix Spike Dup (B3L2923-MSD1)		**Source: Y312782-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	0.0004	100	70-130	2.50	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.0	70-130	2.42	20	
Acenaphthene	0.200	0.020	"	0.200	ND	99.8	70-130	0.228	20	
Anthracene	0.182	0.020	"	0.200	0.002	90.0	70-130	4.82	20	
Benzo (a) anthracene	0.196	0.005	"	0.200	0.002	97.2	70-130	9.11	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	0.004	99.7	70-130	1.42	20	
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.002	107	70-130	2.65	20	
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	0.003	93.1	70-130	1.49	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.003	108	70-130	14.4	20	
Chrysene	0.206	0.020	"	0.200	0.001	102	70-130	8.73	20	
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	0.005	108	70-130	0.467	20	
Fluoranthene	0.208	0.020	"	0.200	0.0008	104	70-130	11.8	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2923 - EPA 3580										
Matrix Spike Dup (B3L2923-MSD1)		**Source: Y312782-01**			Prepared: 12/29/2023 Analyzed: 12/30/2023					
Fluorene	0.189	0.020	mg/kg	0.200	0.0004	94.5	70-130	5.14	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	0.005	95.2	70-130	2.28	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	0.408	20	
Phenanthrene	0.193	0.020	"	0.200	0.0009	95.9	70-130	1.36	20	
Pyrene	0.212	0.020	"	0.200	ND	106	70-130	13.4	20	
Surrogate: Fluorene-d10	*180*		*ug/kg*	*200*		*92.2*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*95.9*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*96.2*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*104*	*60-130*			
Batch B4A0318 - EPA 3580										
Blank (B4A0318-BLK1)					Prepared: 01/03/2024 Analyzed: 01/03/2024					
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U

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Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0318 - EPA 3580										
Blank (B4A0318-BLK1)					Prepared: 01/03/2024 Analyzed: 01/03/2024					
Naphthalene	ND	0.002	mg/kg							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.2*	*60-130*			
Surrogate: Anthracene-d10	*160*		*"*	*200*		*82.2*	*60-130*			
Surrogate: Pyrene-d10	*220*		*"*	*200*		*111*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*180*		*"*	*200*		*89.9*	*60-130*			
LCS (B4A0318-BS1)					Prepared: 01/03/2024 Analyzed: 01/03/2024					
1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.9	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200		92.6	70-130			
Acenaphthene	0.184	0.020	"	0.200		92.2	70-130			
Anthracene	0.166	0.020	"	0.200		82.8	70-130			
Benzo (a) anthracene	0.187	0.005	"	0.200		93.7	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.3	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.182	0.020	"	0.200		91.0	70-130			
Benzo (k) fluoranthene	0.178	0.020	"	0.200		89.0	70-130			
Chrysene	0.200	0.020	"	0.200		100	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		107	70-130			
Fluoranthene	0.240	0.020	"	0.200		120	70-130			
Fluorene	0.178	0.020	"	0.200		89.2	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Naphthalene	0.194	0.002	"	0.200		97.1	70-130			
Phenanthrene	0.183	0.020	"	0.200		91.5	70-130			
Pyrene	0.241	0.020	"	0.200		121	70-130			
Surrogate: Fluorene-d10	*180*		*ug/kg*	*200*		*89.6*	*60-130*			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0318 - EPA 3580										
LCS (B4A0318-BS1)					Prepared: 01/03/2024 Analyzed: 01/03/2024					
Surrogate: Anthracene-d10	*190*		*ug/kg*	*200*		*94.4*	*60-130*			
Surrogate: Pyrene-d10	*240*		*"*	*200*		*118*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*60-130*			
Matrix Spike (B4A0318-MS1)		**Source: Y401018-01**			Prepared: 01/03/2024 Analyzed: 01/03/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0004	96.5	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.6	70-130			
Acenaphthene	0.200	0.020	"	0.200	0.0004	99.7	70-130			
Anthracene	0.164	0.020	"	0.200	0.002	81.3	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200	0.001	102	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200	0.003	98.0	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.001	108	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.002	85.1	70-130			
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.002	92.4	70-130			
Chrysene	0.214	0.020	"	0.200	0.0009	106	70-130			
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.003	114	70-130			
Fluoranthene	0.236	0.020	"	0.200	0.0006	117	70-130			
Fluorene	0.204	0.020	"	0.200	0.0002	102	70-130			
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	0.003	88.6	70-130			
Naphthalene	0.203	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.191	0.020	"	0.200	0.0008	94.9	70-130			
Pyrene	0.245	0.020	"	0.200	0.0005	122	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.9*	*60-130*			
Surrogate: Anthracene-d10	*180*		*"*	*200*		*90.9*	*60-130*			
Surrogate: Pyrene-d10	*220*		*"*	*200*		*108*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*105*	*60-130*			
Matrix Spike Dup (B4A0318-MSD1)		**Source: Y401018-01**			Prepared: 01/03/2024 Analyzed: 01/03/2024					

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0318 - EPA 3580										
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	0.0004	97.7	70-130	1.26	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.4	70-130	0.223	20	
Acenaphthene	0.202	0.020	"	0.200	0.0004	101	70-130	0.852	20	
Anthracene	0.169	0.020	"	0.200	0.002	83.5	70-130	2.57	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	0.001	99.5	70-130	2.79	20	
Benzo (a) pyrene	0.196	0.020	"	0.200	0.003	96.8	70-130	1.23	20	
Benzo (b) fluoranthene	0.221	0.020	"	0.200	0.001	110	70-130	1.63	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.002	100	70-130	16.0	20	
Benzo (k) fluoranthene	0.183	0.020	"	0.200	0.002	90.6	70-130	1.96	20	
Chrysene	0.212	0.020	"	0.200	0.0009	106	70-130	0.792	20	
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	0.003	119	70-130	4.77	20	
Fluoranthene	0.223	0.020	"	0.200	0.0006	111	70-130	5.64	20	
Fluorene	0.206	0.020	"	0.200	0.0002	103	70-130	0.629	20	
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	0.003	104	70-130	16.0	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	0.449	20	
Phenanthrene	0.198	0.020	"	0.200	0.0008	98.5	70-130	3.72	20	
Pyrene	0.236	0.020	"	0.200	0.0005	118	70-130	3.96	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.7*	*60-130*			
Surrogate: Anthracene-d10	*170*		*"*	*200*		*87.4*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*99.8*	*60-130*			
Batch B4A1029 - EPA 3580										
Blank (B4A1029-BLK1)						Prepared: 01/10/2024 Analyzed: 01/11/2024				
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1029 - EPA 3580										
Blank (B4A1029-BLK1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Benzo (a) anthracene	ND	0.005	mg/kg							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*97.6*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*105*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*97.8*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*60-130*			
LCS (B4A1029-BS1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.5	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200		95.8	70-130			
Acenaphthene	0.185	0.020	"	0.200		92.3	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	70-130			
Benzo (a) anthracene	0.191	0.005	"	0.200		95.5	70-130			
Benzo (a) pyrene	0.209	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		98.1	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1029 - EPA 3580										
LCS (B4A1029-BS1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Benzo (k) fluoranthene	0.175	0.020	mg/kg	0.200		87.5	70-130			
Chrysene	0.187	0.020	"	0.200		93.7	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		95.1	70-130			
Fluoranthene	0.190	0.020	"	0.200		95.1	70-130			
Fluorene	0.178	0.020	"	0.200		88.8	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200		93.5	70-130			
Naphthalene	0.195	0.002	"	0.200		97.3	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.188	0.020	"	0.200		93.9	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.3*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*105*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*98.6*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*99.3*	*60-130*			
Matrix Spike (B4A1029-MS1)		**Source: Y401135-01**			Prepared: 01/10/2024 Analyzed: 01/11/2024					
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	ND	101	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Acenaphthene	0.192	0.020	"	0.200	ND	96.2	70-130			
Anthracene	0.203	0.020	"	0.200	0.002	101	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.0006	102	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	103	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Chrysene	0.196	0.020	"	0.200	ND	98.0	70-130			
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.0007	106	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1029 - EPA 3580										
Matrix Spike (B4A1029-MS1)		**Source: Y401135-01**			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Fluorene	0.186	0.020	mg/kg	0.200	ND	93.2	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130			
Pyrene	0.185	0.020	"	0.200	ND	92.3	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.7*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*106*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*92.8*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*100*	*60-130*			
Matrix Spike Dup (B4A1029-MSD1)		**Source: Y401135-01**			Prepared: 01/10/2024 Analyzed: 01/11/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	1.43	20	
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130	1.84	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.6	70-130	1.42	20	
Anthracene	0.207	0.020	"	0.200	0.002	103	70-130	1.98	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	ND	100	70-130	4.49	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	1.23	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.0006	106	70-130	4.58	20	
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130	5.35	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	7.89	20	
Chrysene	0.200	0.020	"	0.200	ND	100	70-130	2.05	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	ND	110	70-130	6.50	20	
Fluoranthene	0.217	0.020	"	0.200	0.0007	108	70-130	2.42	20	
Fluorene	0.185	0.020	"	0.200	ND	92.7	70-130	0.538	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	ND	103	70-130	3.14	20	
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	0.180	20	
Phenanthrene	0.216	0.020	"	0.200	ND	108	70-130	3.01	20	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

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

Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1029 - EPA 3580										
Matrix Spike Dup (B4A1029-MSD1)		**Source: Y401135-01**			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Pyrene	0.184	0.020	mg/kg	0.200	ND	92.1	70-130	0.182	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.8*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*107*	*60-130*			
Surrogate: Pyrene-d10	*180*		*"*	*200*		*90.7*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*60-130*			

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Jeremy Espinoza
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Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch B4A0204 - Filter .45um non acidified										
Blank (B4A0204-BLK1)					Prepared: 01/02/2024 Analyzed: 01/02/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4A0204-BS1)					Prepared: 01/02/2024 Analyzed: 01/02/2024					
Chloride	3.93	0.250	mg/L	4.00		98.3	90-110			
Sulfate	3.91	0.250	"	4.00		97.6	90-110			
Matrix Spike (B4A0204-MS1)		**Source: Y312763-02**			Prepared: 01/02/2024 Analyzed: 01/04/2024					
Chloride	708		mg/L	500	224	96.9	90-110			
Sulfate	539		"	500	58.0	96.3	90-110			
Matrix Spike Dup (B4A0204-MSD1)		**Source: Y312763-02**			Prepared: 01/02/2024 Analyzed: 01/04/2024					
Chloride	705		mg/L	500	224	96.2	90-110	0.481	5	
Sulfate	537		"	500	58.0	95.7	90-110	0.506	5	
Batch B4A0206 - Saturated Paste Metals										
Blank (B4A0206-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4A0206-DUP1)		**Source: Y312797-01**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Calcium PPM	106	10.0	mg/L		71.5			39.1	50	
SAR	ND	0.0100	SAR		5.69				200	
Magnesium PPM	32.2	10.0	mg/L		22.5			35.5	50	
Sodium PPM	236	10.0	"		215			9.26	50	

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Jeremy Espinoza
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Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch B4A0207 - Saturated Paste Metals										
Blank (B4A0207-BLK1)					Prepared: 01/02/2024 Analyzed: 01/04/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4A0207-DUP1)		**Source: Y312788-01**			Prepared: 01/02/2024 Analyzed: 01/04/2024					
Calcium PPM	895	100	mg/L		961			7.06	50	
SAR	ND	0.0100	SAR		52.8				200	
Magnesium PPM	177	100	mg/L		201			12.7	50	
Sodium PPM	5940	100	"		6900			14.9	50	
Batch B4A0210 - DTPA Sorbitol Preparation										
Blank (B4A0210-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A0210-DUP1)		**Source: Y312788-01**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Boron	1.96	0.999	mg/L		1.26			43.5	50	
Batch B4A0219 - NO PREP										
Blank (B4A0219-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4A0219-BS1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	1030	5.00	mg/L	1030		99.6	90-110			

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Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0219 - NO PREP										
Duplicate (B4A0219-DUP1)		**Source: Y312763-05**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	860	5.00	mg/L		852			0.935	10	
Batch B4A0220 - NO PREP										
Blank (B4A0220-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4A0220-BS1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	998	5.00	mg/L	1030		96.9	90-110			
Duplicate (B4A0220-DUP1)		**Source: Y312797-13**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	1010	5.00	mg/L		968			4.64	10	
Batch B4A1009 - DTPA Sorbitol Preparation										
Blank (B4A1009-BLK1)					Prepared: 01/10/2024 Analyzed: 01/11/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A1009-DUP1)		**Source: Y312797-01**			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Boron	0.470	0.992	mg/L		0.292			46.7	50	

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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0213 - Saturated Paste pH/EC										
Blank (B4A0213-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A0213-DUP1)		**Source: Y312797-01**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
pH	8.28		pH Units		8.29			0.121	25	
Specific Conductance (EC)	1.80	0.00500	mmhos/cm		1.58			13.3	25	
Batch B4A0214 - Saturated Paste pH/EC										
Blank (B4A0214-BLK1)					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A0214-DUP1)		**Source: Y312788-01**			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Specific Conductance (EC)	25.7	0.00500	mmhos/cm		25.2			2.12	25	
pH	7.85		pH Units		7.88			0.381	25	

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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 L726179 -										
DUP (L 85000-DUP)		**Source: 85000**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 85000-MS)		**Source: 85000**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	26.8	2.5	mg/Kg	39.3	<1.22	68	75-125			*
LCS (LCS)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	6.13	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jeremy Espinoza
Project Number: 09A1417396
Project: KMG - Sharkey 8&9-35 & 10-3 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
Batch L726093 -										
DUP (L 84988-DUP)		**Source: 84988**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 84988-MS)		**Source: 84988**			Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	31	2.5	mg/Kg	40	<1.22	78	75-125			
LCS (LCS)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	6.2	0.5	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared:	Analyzed: 01/04/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Notes and Definitions

U	Sample is Non-Detect.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
*	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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