

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HSR-FED 11-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
SS01@2'	6/20/2023	2	13.8	NS	NO	40.179614	-104.727538	Y
B01@6.5'	7/19/2023	6.5	1.0	NS	NO	40.179615	-104.727532	Y
N01@3'	7/19/2023	3	0.3	NS	NO	40.179636	-104.727537	Y
E01@3'	7/19/2023	3	0.3	NS	NO	40.179618	-104.727513	Y
S01@3'	7/19/2023	3	0.3	NS	NO	40.179603	-104.727533	Y
WH01-RISER@5'	7/19/2023	5	0.7	NS	NO	40.179610	-104.727548	Y
FS01	7/19/2023	0.5	0.5	NS	NO	40.17965721	-104.7275332	N
FS02	7/19/2023	0.5	0.4	NS	NO	40.17959645	-104.7274453	N
FS03	7/19/2023	0.5	0.2	NS	NO	40.17955424	-104.7274998	N
FS04	7/19/2023	0.5	0.1	NS	NO	40.17959785	-104.7275706	N
B02@9'	8/23/2023	9	7.9	NS	NO	40.179608	-104.727528	Y
S02@3'	8/23/2023	3	7.0	NS	NO	40.179595	-104.727511	Y
S03@3'	9/14/2023	3	0.9	NS	NO	40.179590	-104.72753	Y
FLOWLINE POTHOLE SAMPLES								
PH01@4'	7/19/2023	4	0.2	NS	NO	40.17954609	-104.727844	N
PH02@4'	7/19/2023	4	0.1	NS	NO	40.17943198	-104.728266	N
PH03@4'	7/19/2023	4	0.0	NS	NO	40.17931377	-104.7284988	N
PH04@4'	7/19/2023	4	0.0	NS	NO	40.17923391	-104.7286507	N
PH05@4'	7/19/2023	4	0.0	NS	NO	40.17915707	-104.728792	N
PH06@4'	7/19/2023	4	0.0	NS	NO	40.17897	-104.72911	N
PH07@4'	7/19/2023	4	0.0	NS	NO	40.178876	-104.729287	N
PH08@4'	7/19/2023	4	0.0	NS	NO	40.178800	-104.729414	N
FL01@5'	6/5/2024	5	0.9	NS	NO	40.179174	-104.729936	Y
SEPARATOR RISER SAMPLE								
SEP01-RISER@4'	7/19/2023	4	0.9	NS	NO	40.17885916	-104.7303972	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@0.5'	6/20/2023	0.5	0.2	NS	NO	40.17986952	-104.7275143	Y
Native-BG02@0.5'	6/20/2023	0.5	0.3	NS	NO	40.1795216	-104.7271562	Y
Native-BG03@0.5'	6/20/2023	0.5	0.7	NS	NO	40.1793305	-104.7275346	Y
Native-BG04@0.5'	6/20/2023	0.5	0.2	NS	NO	40.17960329	-104.7279017	Y
NATIVE-BG05@3'	7/19/2023	3	0.0	NS	NO	40.17969251	-104.7275459	Y
NATIVE-BG05@6'	7/19/2023	6	0.3	NS	NO	40.17969251	-104.7275459	Y
NATIVE-BG06@3'	7/19/2023	3	0.3	NS	NO	40.17960352	-104.7273882	Y
NATIVE-BG06@6'	7/19/2023	6	0.8	NS	NO	40.17960352	-104.7273882	Y

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WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
BACKGROUND SOIL SAMPLES								
NATIVE-BG07@3'	7/19/2023	3	0.7	NS	NO	40.17949074	-104.7274728	Y
NATIVE-BG07@6'	7/19/2023	6	0.8	NS	NO	40.17949074	-104.7274728	Y
NATIVE-BG08@3'	7/19/2023	3	0.4	NS	NO	40.17960484	-104.7276543	Y
NATIVE-BG08@6'	7/19/2023	6	0.5	NS	NO	40.17960484	-104.7276543	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
HSR-FED 11-36 WELLHEAD
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
WELLHEAD EXCAVATION SAMPLES												
SS01@2'	6/20/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B01@6.5'	7/19/2023	6.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
WH01-RISER@5'	7/19/2023	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
N01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02@9'	8/23/2023	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S02@3'	8/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S03@3'	9/14/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01@5'	6/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR RISER SAMPLE												
SEP01-RISER@4'	7/19/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

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

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HSR-FED 11-36 WELLHEAD
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
WELLHEAD EXCAVATION SAMPLES																
SS01@2'	6/20/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B01@6.5'	7/19/2023	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-RISER@5'	7/19/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	7/19/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02@9'	8/23/2023	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S02@3'	8/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S03@3'	9/14/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES																
FL01@5'	6/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLE																
SEP01-RISER@4'	7/19/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
HSR-FED 11-36 WELLHEAD
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			0.264	1.37	8.10	0.111
WELLHEAD EXCAVATION SAMPLES						
SS01@2'	6/20/2023	2	0.390	2.11	8.49	<0.101
B01@6.5'	7/19/2023	6.5	0.506	1.30	7.75	<0.0988
WH01-RISER@5'	7/19/2023	5	0.212	0.471	6.52	<0.100
N01@3'	7/19/2023	3	NA	NA	7.53	NA
E01@3'	7/19/2023	3	NA	NA	7.72	NA
S01@3'	7/19/2023	3	NA	NA	8.00	NA
B02@9'	8/23/2023	9	NA	NA	8.27	NA
S02@3'	8/23/2023	3	NA	NA	8.39	NA
S03@3'	9/14/2023	3	NA	NA	7.97	NA
FLOWLINE POTHOLE SAMPLES						
FL01@5'	6/5/2024	5	0.885	0.246	7.64	<0.100
SEPARATOR RISER SAMPLES						
SEP01-RISER@4'	7/19/2023	4	0.203	0.213	8.12	<0.100
BACKGROUND SAMPLES						
Native-BG01@0.5'	6/20/2023	0.5	0.264	0.0515	8.00	<0.0983
Native-BG02@0.5'	6/20/2023	0.5	0.141	0.0755	7.98	<0.102
Native-BG03@0.5'	6/20/2023	0.5	0.198	0.0558	7.62	<0.102
Native-BG04@0.5'	6/20/2023	0.5	0.212	0.0645	7.24	<1.01
NATIVE-BG05@3'	7/19/2023	3	0.148	0.225	6.78	<0.0989
NATIVE-BG05@6'	7/19/2023	6	0.156	0.132	6.68	<0.101
NATIVE-BG06@3'	7/19/2023	3	0.119	0.111	8.10	0.111
NATIVE-BG06@6'	7/19/2023	6	0.148	1.37	7.85	<0.100
NATIVE-BG07@3'	7/19/2023	3	0.0992	0.158	7.31	<0.0981
NATIVE-BG07@6'	7/19/2023	6	0.0636	0.326	7.24	<0.101
NATIVE-BG08@3'	7/19/2023	3	0.0358	0.184	7.20	<0.0999
NATIVE-BG08@6'	7/19/2023	6	0.0394	0.526	7.30	<0.0982

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - 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 background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HSR-FED 11-36 WELLHEAD
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			3.27	46.2	0.133	NA	NA	NA	NA	NA	NA	NA
WELLHEAD EXCAVATION SAMPLES												
SS01@2'	6/20/2023	2	1.10*	40.1	0.187	<0.503	<9.24	15.8	<9.24	<0.0924	<0.0924	<92.4
B01@6.5'	7/19/2023	6.5	1.22*	54.7	<0.0937	<0.507	<9.37	21.7	<9.37	<0.0937	<0.0937	<93.7
WH01-RISER@5'	7/19/2023	5	1.06*	31.6	<0.0857	<0.5	<8.57	<8.57	<8.57	<0.0857	<0.0857	<85.7
N01@3'	7/19/2023	3	1.12*	35.8	<0.0910	NA	NA	<9.10	NA	NA	NA	NA
E01@3'	7/19/2023	3	1.42*	41.1	<0.0948	NA	NA	<9.48	NA	NA	NA	NA
S01@3'	7/19/2023	3	1.16*	62.0	<0.0881	NA	NA	14.2	NA	NA	NA	NA
B02@9'	8/23/2023	9	1.39*	53.9	<0.0919	NA	NA	<9.19	NA	NA	NA	NA
S02@3'	8/23/2023	3	1.32*	33.6	<0.0960	NA	NA	19.6	NA	NA	NA	NA
S03@3'	9/14/2023	3	0.959*	32.8	<0.0884	NA	NA	<8.84	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
FL01@5'	6/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLE												
SEP01-RISER@4'	7/19/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@0.5'	6/20/2023	0.5	1.19	35.4	<0.0947	<0.506	<9.47	<9.47	<9.47	<0.0947	<0.0947	<94.7
Native-BG02@0.5'	6/20/2023	0.5	1.12	25.3	<0.0873	<0.511	<8.73	<8.73	<8.73	<0.0873	<0.0873	<87.3
Native-BG03@0.5'	6/20/2023	0.5	1.02	24.5	<0.0956	<0.512	<9.56	<9.56	<9.56	<0.0956	<0.0956	<95.6
Native-BG04@0.5'	6/20/2023	0.5	0.979	28.5	0.0872	<1	<8.72	<8.72	<8.72	<0.0872	<0.0872	<87.2
NATIVE-BG05@3'	7/19/2023	3	1.23	46.2	<0.0955	<0.506	<9.55	<9.55	<9.55	<0.0955	<0.0955	<95.5
NATIVE-BG05@6'	7/19/2023	6	1.33	39.1	<0.0913	<0.5	<9.13	<9.13	<9.13	<0.0913	<0.0913	<91.3
NATIVE-BG06@3'	7/19/2023	3	1.34	40.9	<0.0878	<0.5	<8.78	<8.78	<8.78	<0.0878	<0.0878	<87.8
NATIVE-BG06@6'	7/19/2023	6	1.14	39.4	<0.0932	<0.5	<9.32	<9.32	<9.32	<0.0932	<0.0932	<93.2
NATIVE-BG07@3'	7/19/2023	3	1.05	35.1	<0.0841	<0.507	<8.41	<8.41	<8.41	<0.0841	<0.0841	<84.1
NATIVE-BG07@6'	7/19/2023	6	1.18	43.4	<0.0892	<0.5	<8.92	<8.92	<8.92	<0.0892	<0.0892	<89.2
NATIVE-BG08@3'	7/19/2023	3	1.04	30.4	<0.0909	<0.507	<9.09	<9.09	<9.09	<0.0909	<0.0909	<90.9
NATIVE-BG08@6'	7/19/2023	6	3.27	37.7	0.133	<0.505	<8.81	<8.81	<8.81	<0.0881	<0.0881	<88.1

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 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.



June 26, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - HSR - Fed 11-36 Wellhead Project Number - 09A1417382

Attached are your analytical results for KMG - HSR - Fed 11-36 Wellhead received by Origins Laboratory, Inc. June 05, 2024. This project is associated with Origins project number Y406109-01.

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.
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@5'	Y406109-01	Soil	June 5, 2024 14:00	06/05/2024 17:00

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.

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1426109

Client: Ensolum

Client Project ID: USA 36-36

Checklist Completed by: JHE

Shipped Via: 40
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/5/12

Airbill #: N/A

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

Cooler Number/Temperature: 114 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) JHE

6/5/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

FL01@5'

6/5/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406109-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4F0615	ACC	06/06/2024	06/07/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0538	ZZZ	06/05/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0546	ZZZ	06/05/2024	06/05/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.1 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

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Ensolum

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

FL01@5'

6/5/2024 2:00:00PM

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

Y406109-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	06/06/2024	06/07/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	7.64		pH Units	1	B4F0620	EAL	06/06/2024	06/07/2024
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SAR by 20B Saturated Paste

SAR	0.246	0.0100	SAR	1	B4F0609	ACC	06/06/2024	06/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0885	0.00500	mmhos/cm	1	B4F0620	EAL	06/06/2024	06/07/2024
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0538 - EPA 3550B

Blank (B4F0538-BLK1)

Prepared: 06/05/2024 Analyzed: 06/06/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.8	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0538 - EPA 3550B

LCS (B4F0538-BS1)

Prepared: 06/05/2024 Analyzed: 06/06/2024

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0538 - EPA 3550B

Matrix Spike (B4F0538-MS1)		Source: Y406107-01			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0538 - EPA 3550B

Matrix Spike Dup (B4F0538-MSD1)		Source: Y406107-01			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130	2.06	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	0.771	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

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 B4F0546 - EPA 5030 (soil)										
Blank (B4F0546-BLK1)					Prepared: 06/05/2024 Analyzed: 06/05/2024					
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	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		114	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

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 B4F0546 - EPA 5030 (soil)										
LCS (B4F0546-BS1)					Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.0849	0.00200	mg/kg	0.100		84.9	70-130			
1,3,5-Trimethylbenzene	0.0868	0.00200	"	0.100		86.8	70-130			
Benzene	0.0928	0.00200	"	0.100		92.8	70-130			
Ethylbenzene	0.0864	0.00200	"	0.100		86.4	70-130			
Naphthalene	0.0975	0.00380	"	0.100		97.5	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
o-Xylene	0.0852	0.00200	"	0.100		85.2	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0546 - EPA 5030 (soil)

Matrix Spike (B4F0546-MS1)		Source: Y406107-01			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100	ND	94.6	70-130			
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
Benzene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0546 - EPA 5030 (soil)

Matrix Spike Dup (B4F0546-MSD1)		Source: Y406107-01			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100	ND	92.3	70-130	2.38	20	
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	4.07	20	
Benzene	0.0955	0.00200	"	0.100	ND	95.5	70-130	3.70	20	
Ethylbenzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	3.35	20	
Naphthalene	0.117	0.00380	"	0.100	ND	117	70-130	6.66	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	3.68	20	
o-Xylene	0.0949	0.00200	"	0.100	ND	94.9	70-130	2.70	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.9	70-130	3.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0609 - Saturated Paste Metals

Blank (B4F0609-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4F0609-DUP1)

Source: Y406108-17

Prepared: 06/06/2024 Analyzed: 06/07/2024

SAR	ND	0.0100	SAR	7.50		200
Calcium PPM	84.3	10.0	mg/L	86.6	2.75	50
Magnesium PPM	27.3	10.0	"	28.0	2.68	50
Sodium PPM	304	10.0	"	314	3.29	50

Batch B4F0615 - DTPA Sorbitol Preparation

Blank (B4F0615-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	ND	0.100	mg/L
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Duplicate (B4F0615-DUP1)

Source: Y406108-16

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	0.423	0.0996	mg/L	0.389	8.16	50
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417382
Project: KMG - HSR - Fed 11-36 Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0620 - Saturated Paste pH/EC										
Blank (B4F0620-BLK1)					Prepared: 06/06/2024 Analyzed: 06/07/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F0620-DUP1)					Source: Y406108-17 Prepared: 06/06/2024 Analyzed: 06/07/2024					
Specific Conductance (EC)	2.11	0.00500	mmhos/cm		2.02			3.94	25	
pH	8.13		pH Units		8.12			0.123	25	

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417382

Project: KMG - HSR - Fed 11-36 Wellhead

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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