

**TABLE 1  
SOIL SAMPLE FIELD DATA SUMMARY TABLE  
GNB W 31-3,4,5J,6 FACILITY  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
<b>ABOVEGROUND STORAGE TANK SAMPLES</b>								
HATCH	2/27/2024	0.5	0.5	NS	NO	40.098356	-104.826011	N
AST01@0.5'	2/27/2024	0.5	1.2	NS	NO	40.098349	-104.826025	Y
LOADOUT	2/27/2024	0.5	0.8	NS	NO	40.098354	-104.826053	N
<b>PRODUCED WATER VESSEL SAMPLES</b>								
N WALL	2/27/2024	3	152.1	STAIN	ODOR	40.098399	-104.826089	N
E WALL	2/27/2024	3	205.4	STAIN	ODOR	40.09839	-104.826071	N
W WALL	2/27/2024	3	354.1	STAIN	ODOR	40.098385	-104.826109	N
PWV-S01@3'	2/27/2024	3	471.2	STAIN	ODOR	40.098377	-104.826092	Y
PWV-B01@5'	2/27/2024	5	1781.0	STAIN	ODOR	40.098368	-104.826086	Y
<b>SEPARATOR SAMPLES</b>								
SEP01-INLET@4'	2/27/2024	4	1.2	NS	NO	40.09859	-104.826085	Y
SEP01-OUTLET@4'	2/27/2024	4	2.1	NS	NO	40.098537	-104.826047	Y
<b>COMBINED EXCAVATION SAMPLES</b>								
B01@6'	4/5/2024	6	0.0	NS	NO	40.098294	-104.826055	Y
B02@6'	4/5/2024	6	0.0	NS	NO	40.098355	-104.826165	Y
B03@6'	4/5/2024	6	0.5	NS	NO	40.098352	-104.826064	Y
B04@6'	4/5/2024	6	5.2	NS	NO	40.098356	-104.825979	Y
B05@6'	4/5/2024	6	3.3	NS	NO	40.098453	-104.826129	Y
B06@6'	4/5/2024	6	2.7	NS	NO	40.098454	-104.826027	Y
B07@6'	4/5/2024	6	5.3	NS	NO	40.098502	-104.826062	Y
E01@3'	4/5/2024	3	5.2	NS	NO	40.098523	-104.826013	Y
E02@3'	4/5/2024	3	1.0	NS	NO	40.098474	-104.825976	Y
E03@3'	4/5/2024	3	2.9	NS	NO	40.098412	-104.825959	Y
E04@3'	4/5/2024	3	6.2	NS	NO	40.098346	-104.825945	Y
E05@3'	4/5/2024	3	2.8	STAIN	NO	40.09829	-104.825947	Y
	5/13/2024	3	0.1	NS	NO	40.09829	-104.825947	Y
S01@3'	4/5/2024	3	0.0	NS	NO	40.098269	-104.826201	Y
S02@3'	4/5/2024	3	1.7	NS	NO	40.098269	-104.826128	Y
S03@3'	4/5/2024	3	0.0	NS	NO	40.098268	-104.826066	Y
S04@3'	4/5/2024	3	10.2	NS	NO	40.098269	-104.825991	Y
W01@3'	4/5/2024	3	0.0	NS	NO	40.098301	-104.826221	Y
W02@3'	4/5/2024	3	0.0	NS	NO	40.098355	-104.82623	Y
W03@3'	4/5/2024	3	128.2	STAIN	ODOR	40.098403	-104.826213	Y
	5/13/2024	3	1.0	NS	NO	40.098403	-104.826213	Y
W04@3'	4/17/2024	3	2.4	NS	NO	40.098452	-104.826227	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)
W05@3'	4/17/2024	3	3.7	NS	NO	40.098511	-104.826232	Y
	5/13/2024	3	1.5	NS	NO	40.098511	-104.826232	Y
N01@3'	4/17/2024	3	2.5	NS	NO	40.098558	-104.826211	Y
	5/13/2024	3	1.6	NS	NO	40.098558	-104.826211	Y
N02@3'	4/17/2024	3	1.9	NS	NO	40.098563	-104.826134	Y
N03@3'	4/17/2024	3	2.2	NS	NO	40.098564	-104.826061	Y
B08@6'	4/17/2024	6	3.3	NS	NO	40.098505	-104.826197	Y
<b>MISCELLANEOUS SAMPLES</b>								
DUMPLINES	2/27/2024	NA	181.4	STAIN	ODOR	40.09838501	-104.826065	N
<b>FLOWLINE SAMPLES</b>								
FL01@5'	2/27/2024	5	951.4	STAIN	ODOR	40.098449	-104.826081	Y
FL02@5'	4/5/2024	5	6.7	NS	NO	40.098579	-104.826131	Y
FL02@5'-V	4/5/2024	5	6.7	NS	NO	40.098579	-104.826131	Y
FL03@5'	4/5/2024	5	4.2	NS	NO	40.098542	-104.826139	Y
FL03@5'-V	4/5/2024	5	4.2	NS	NO	40.098542	-104.826139	Y
FL04@4'	4/5/2024	4	1.8	NS	NO	40.098576	-104.826296	Y
FL04@4'-V	4/5/2024	4	1.8	NS	NO	40.098576	-104.826296	Y
FL05@4'	4/5/2024	4	9.1	NS	NO	40.098369	-104.826336	Y
FL05@4'-V	4/5/2024	4	9.1	NS	NO	40.098369	-104.826336	Y
FL06@5'	4/5/2024	5	12.2	NS	NO	40.098360	-104.826494	Y
FL06@5'-V	4/5/2024	5	12.2	NS	NO	40.098360	-104.826494	Y
FL07@4'	4/5/2024	4	5.0	NS	NO	40.098335	-104.826505	Y
FL07@4'-V	4/5/2024	4	5.0	NS	NO	40.098335	-104.826505	Y
FL08@3'	4/11/2024	3	0.6	NS	NO	40.098378	-104.827423	Y
FL08@3'-V	4/11/2024	3	0.6	NS	NO	40.098378	-104.827423	Y
PH09	4/11/2024	3	1.1	NS	NO	40.098337	-104.827432	N
PH10	4/11/2024	3	1.0	NS	NO	40.098356	-104.828417	N
PH11	4/11/2024	3	0.9	NS	NO	40.098334	-104.828416	N
PH12	4/11/2024	3	1.5	NS	NO	40.098370	-104.829193	N
FL09@2'	4/11/2024	2	0.6	NS	NO	40.0983348	-104.8291862	Y
FL09@2'-V	4/11/2024	2	0.6	NS	NO	40.0983348	-104.8291862	Y
	5/23/2024	2	2.0	NS	NO	40.0983348	-104.8291862	Y
PH14	4/11/2024	2	0.0	NS	NO	40.098359	-104.829726	N
PH15	4/11/2024	2	0.4	NS	NO	40.098349	-104.829741	N
FL10@3'	4/11/2024	3	0.0	NS	NO	40.098360	-104.829986	Y
FL10@3'-V	4/11/2024	3	0.0	NS	NO	40.098360	-104.829986	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)
FL11@3'	4/11/2024	3	0.3	NS	NO	40.098291	-104.82998	Y
FL11@3'-V	4/11/2024	3	0.3	NS	NO	40.098291	-104.82998	Y
<b>BACKGROUND SOIL SAMPLES</b>								
TB-BG01@0.5'	2/27/2024	0.5	1.8	NS	NO	40.098315	-104.825983	Y
NATIVE-BG01@3'	2/27/2024	3	0.4	NS	NO	40.098335	-104.825774	Y
NATIVE-BG01@6'	2/27/2024	6	0.5	NS	NO	40.098335	-104.825774	Y
NATIVE-BG02@3'	4/11/2024	3	0.7	NS	NO	40.098457	-104.829103	Y
NATIVE-BG02@6'	4/11/2024	6	0.4	NS	NO	40.098457	-104.829103	Y
NATIVE-BG03@3'	4/11/2024	3	1.0	NS	NO	40.098505	-104.827435	Y
NATIVE-BG03@6'	4/11/2024	6	0.6	NS	NO	40.098505	-104.827435	Y
NATIVE-BG01@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG01@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100212	-104.822625	Y
NATIVE-BG02@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG02@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100169	-104.822785	Y
NATIVE-BG03@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG03@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100047	-104.822838	Y
NATIVE-BG04@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG04@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.099941	-104.822818	Y
NATIVE-BG05@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.100080	-104.822984	Y
NATIVE-BG05@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.100080	-104.822984	Y
NATIVE-BG06@3' (Rem No. 32961)	2/22/2024	3	0.0	NS	NO	40.099999	-104.823153	Y
NATIVE-BG06@6' (Rem No. 32961)	2/22/2024	6	0.0	NS	NO	40.099999	-104.823153	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**  
**GNB W 31-3,4,5J,6 FACILITY**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO <sup>+</sup> (mg/kg)	TPH-DRO <sup>+</sup> (mg/kg)	TPH-RR0 <sup>+</sup> (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
<b>ABOVEGROUND STORAGE TANK SAMPLES</b>												
AST01@0.5'	2/27/2024	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>PRODUCED WATER VESSEL SAMPLES</b>												
PWV-S01@3'	2/27/2024	3	3.07	249	197	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.004
PWV-B01@5'	2/27/2024	5	<b>2250</b>	<b>2540</b>	<b>1480</b>	<0.0500	0.0695	0.0665	0.185	<0.0500	<0.0500	<b>1.82</b>
<b>SEPARATOR SAMPLES</b>												
SEP01-INLET@4'	2/27/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
SEP01-OUTLET@4'	2/27/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>COMBINED EXCAVATION SAMPLES</b>												
B01@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	0.00276	0.00432	0.0022	<0.00200	<0.00200	<0.002
B02@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B03@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B04@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B05@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B06@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B07@6'	4/5/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E01@3'	4/5/2024	3	2.90	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E02@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E03@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E04@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E05@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S02@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S03@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S04@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W01@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W02@3'	4/5/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W03@3'	4/5/2024	3	5.91	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W04@3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W05@3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N01@3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N02@3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
N03@3'	4/17/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B08@6'	4/17/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>FLOWLINE SAMPLES</b>												
FL01@5'	2/27/2024	5	108	26.4	<100	<b>0.0232</b>	0.00276	0.00432	0.0022	<0.00200	<0.00200	<b>0.352</b>
FL02@5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

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**GNB W 31-3,4,5J,6 FACILITY**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO <sup>+</sup> (mg/kg)	TPH-DRO <sup>+</sup> (mg/kg)	TPH-RRO <sup>+</sup> (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
FL03@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL04@4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL04@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL05@4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL05@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL06@5'	4/5/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL06@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL07@4'	4/5/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL07@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL08@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL08@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL09@2'	4/11/2024	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL09@2'-V	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/23/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL10@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL10@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL11@3'	4/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL11@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

ECMC - Energy and Carbon Management Commission  
PGSSLs - 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  
GNB W 31-3,4,5J,6 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 (PGSSLs)			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
<b>ABOVEGROUND STORAGE TANK SAMPLES</b>																
AST01@0.5'	2/27/2024	0.5	<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
<b>PRODUCED WATER VESSEL SAMPLES</b>																
PWV-S01@3'	2/27/2024	3	<0.020	<0.020	0.006	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.044	<0.020	<b>0.011</b>	0.018	<0.020
PWV-B01@5'	2/27/2024	5	0.468	0.043	<0.005	<0.040	<0.040	<0.040	0.036	<0.040	<0.020	<b>0.548</b>	<0.040	<b>3.18</b>	<b>6.42</b>	0.029
<b>SEPARATOR SAMPLES</b>																
SEP01-INLET@4'	2/27/2024	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'	2/27/2024	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
<b>COMBINED EXCAVATION SAMPLES</b>																
B01@6'	4/5/2024	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
B02@6'	4/5/2024	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
B03@6'	4/5/2024	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
B04@6'	4/5/2024	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
B05@6'	4/5/2024	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
B06@6'	4/5/2024	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
B07@6'	4/5/2024	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
E01@3'	4/5/2024	3	<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
E02@3'	4/5/2024	3	<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
E03@3'	4/5/2024	3	<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
E04@3'	4/5/2024	3	<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
E05@3'	4/5/2024	3	<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
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	4/5/2024	3	<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
S02@3'	4/5/2024	3	<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
S03@3'	4/5/2024	3	<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
S04@3'	4/5/2024	3	<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
W01@3'	4/5/2024	3	<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
W02@3'	4/5/2024	3	<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
W03@3'	4/5/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.005	<0.002	<0.020
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W04@3'	4/17/2024	3	<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
W05@3'	4/17/2024	3	<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
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N01@3'	4/17/2024	3	<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
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N02@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020	
N03@3'	4/17/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020	
B08@6'	4/17/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020	
<b>FLOWLINE SAMPLES</b>																
FL01@5'	2/27/2024	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<b>0.213</b>	<b>0.433</b>	<0.020

**TABLE 2-2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**POLYCYCLIC AROMATIC HYDROCARBONS**  
**GNB W 31-3,4,5J,6 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 (PGSSLs)			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
FL02@5'	4/5/2024	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
FL02@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@5'	4/5/2024	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
FL03@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL04@4'	4/5/2024	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
FL04@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL05@4'	4/5/2024	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
FL05@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL06@5'	4/5/2024	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
FL06@5'-V	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL07@4'	4/5/2024	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
FL07@4'-V	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL08@3'	4/11/2024	3	<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
FL08@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL09@2'	4/11/2024	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
FL09@2'-V	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/23/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL10@3'	4/11/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020	
FL10@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL11@3'	4/11/2024	3	<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
FL11@3'-V	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**  
ECMC - Energy and Carbon Management Commission  
PGSSLs - 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  
GNB W 31-3,4,5J,6 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)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66
<b>ABOVEGROUND STORAGE TANK SAMPLES</b>						
<b>AST01@0.5'</b>	2/27/2024	0.5	0.481	1.86	<b>9.42</b>	<0.101
<b>PRODUCED WATER VESSEL SAMPLES</b>						
<b>PWV-S01@3'</b>	2/27/2024	3	1.50	2.90	8.23	<b>3.61</b>
<b>PWV-B01@5'</b>	2/27/2024	5	0.686	5.18	7.70	1.19
<b>SEPARATOR SAMPLES</b>						
<b>SEP01-INLET@4'</b>	2/27/2024	4	0.0996	0.280	8.14	<0.101
<b>SEP01-OUTLET@4'</b>	2/27/2024	4	0.230	0.534	8.38*	0.170
<b>COMBINED EXCAVATION SAMPLES</b>						
<b>B01@6'</b>	4/5/2024	6	NA	1.53	7.78	<0.0990
<b>B02@6'</b>	4/5/2024	6	NA	1.57	7.99	<0.102
<b>B03@6'</b>	4/5/2024	6	NA	1.84	8.19	<0.101
<b>B04@6'</b>	4/5/2024	6	NA	1.74	8.31*	<0.100
<b>B05@6'</b>	4/5/2024	6	NA	1.58	8.04	<0.100
<b>B06@6'</b>	4/5/2024	6	NA	1.85	8.26	<0.100
<b>B07@6'</b>	4/5/2024	6	NA	1.70	7.98	<0.100
<b>E01@3'</b>	4/5/2024	3	NA	1.98	8.34*	0.108
<b>E02@3'</b>	4/5/2024	3	NA	1.57	7.96	<0.100
<b>E03@3'</b>	4/5/2024	3	NA	1.59	7.80	<0.100
<b>E04@3'</b>	4/5/2024	3	NA	1.77	8.11	<0.100
<b>E05@3'</b>	4/5/2024	3	NA	8.80*	<b>8.88</b>	<1.00
	5/13/2024		NA	NA	8.30	NA
<b>S01@3'</b>	4/5/2024	3	NA	2.45	8.43*	<0.100
<b>S02@3'</b>	4/5/2024	3	NA	1.44	8.03	<0.100
<b>S03@3'</b>	4/5/2024	3	NA	3.32	7.77	<0.100
<b>S04@3'</b>	4/5/2024	3	NA	3.07	7.92	<0.100
<b>W01@3'</b>	4/5/2024	3	NA	2.18	8.15	<0.100
<b>W02@3'</b>	4/5/2024	3	NA	8.67*	8.49*	2.35*
<b>W03@3'</b>	4/5/2024	3	NA	12.2*	8.53*	1.23
	5/13/2024		NA	NA	NA	NA
<b>W04@3'</b>	4/17/2024	3	NA	3.04	8.54*	<1.01
<b>W05@3'</b>	4/17/2024	3	NA	8.10*	8.55*	<1.01
	5/13/2024		NA	NA	NA	NA
<b>N01@3'</b>	4/17/2024	3	NA	14.8*	<b>8.60</b>	1.08
	5/13/2024		NA	NA	8.38*	NA
<b>N02@3'</b>	4/17/2024	3	NA	1.46	8.28	<0.101
<b>N03@3'</b>	4/17/2024	3	NA	0.182	8.39*	<0.990
<b>B08@6'</b>	4/17/2024	6	NA	1.68	8.17	<0.0996

**TABLE 2-3**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**SOIL SUITABILITY FOR RECLAMATION**  
**GNB W 31-3,4,5J,6 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)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66
<b>FLOWLINE SAMPLES</b>						
FL01@5'	2/27/2024	5	1.40	<b>30.8</b>	8.23	<b>2.82</b>
FL02@5'	4/5/2024	5	0.394	0.853	8.47*	0.220
FL02@5'-V	4/5/2024	5	NA	NA	8.47*	NA
FL03@5'	4/5/2024	5	0.563	2.21	8.53*	0.278
FL03@5'-V	4/5/2024	5	NA	NA	8.55*	NA
FL04@4'	4/5/2024	4	1.75	12.2*	8.44*	1.68
FL04@4'-V	4/5/2024	4	NA	NA	<b>8.78</b>	NA
FL05@4'	4/5/2024	4	1.78	5.94	8.40*	0.721
FL05@4'-V	4/5/2024	4	NA	NA	8.58*	NA
FL06@5'	4/5/2024	5	0.722	3.34	8.37*	<0.997
FL06@5'-V	4/5/2024	5	NA	NA	<b>8.60</b>	NA
FL07@4'	4/5/2024	4	0.693	3.24	8.18	<0.992
FL07@4'-V	4/5/2024	4	NA	NA	8.25	NA
FL08@3'	4/11/2024	3	0.520	2.59	8.02	<0.0994
FL08@3'-V	4/11/2024	3	NA	NA	8.22	NA
FL09@2'	4/11/2024	2	0.496	2.89	8.15	<0.0989
FL09@2'-V	4/11/2024	2	NA	NA	8.15	NA
	5/23/2024		NA	NA	NA	NA
FL10@3'	4/11/2024	3	0.703	2.49	8.46*	0.273
FL10@3'-V	4/11/2024	3	NA	NA	8.32*	NA
FL11@3'	4/11/2024	3	0.211	0.771	8.30	0.155
FL11@3'-V	4/11/2024	3	NA	NA	7.75	NA
<b>BACKGROUND SAMPLES</b>						
TB-BG01@0.5'	2/27/2024	0.5	0.432	1.69	8.30	0.196
NATIVE-BG01@3'	2/27/2024	3	3.86	24.3	8.59	2.66
NATIVE-BG01@6'	2/27/2024	6	2.47	15.9	8.51	0.869
NATIVE-BG02@3'	4/11/2024	3	0.593	3.20	8.02	0.218
NATIVE-BG02@6'	4/11/2024	6	0.307	2.45	7.94	<0.0989
NATIVE-BG03@3'	4/11/2024	3	0.427	2.38	8.19	<0.0996
NATIVE-BG03@6'	4/11/2024	6	0.598	3.14	8.27	<0.0996
NATIVE-BG01@3' (Rem No. 32961)	2/22/2024	3	0.349	3.82	7.89	0.183
NATIVE-BG01@6' (Rem No. 32961)	2/22/2024	6	0.429	3.88	7.98	0.201
NATIVE-BG02@3' (Rem No. 32961)	2/22/2024	3	0.473	3.40	7.82	0.467
NATIVE-BG02@6' (Rem No. 32961)	2/22/2024	6	0.166	2.58	7.80	<0.101
NATIVE-BG03@3' (Rem No. 32961)	2/22/2024	3	1.54	3.40	8.00	<0.0998
NATIVE-BG03@6' (Rem No. 32961)	2/22/2024	6	0.452	3.16	7.94	0.156
NATIVE-BG04@3' (Rem No. 32961)	2/22/2024	3	<0.005	3.74	7.67	0.510
NATIVE-BG04@6' (Rem No. 32961)	2/22/2024	6	1.12	4.06	8.39	<1.01

**TABLE 2-3  
SOIL SAMPLE ANALYTICAL RESULTS  
SOIL SUITABILITY FOR RECLAMATION  
GNB W 31-3,4,5J,6 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)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66
<b>NATIVE-BG05@3' (Rem No. 32961)</b>	2/22/2024	3	0.355	2.98	8.30	0.459
<b>NATIVE-BG05@6' (Rem No. 32961)</b>	2/22/2024	6	0.311	2.72	7.85	<0.0993
<b>NATIVE-BG06@3' (Rem No. 32961)</b>	2/22/2024	3	0.972	3.07	7.90	<0.994
<b>NATIVE-BG06@6' (Rem No. 32961)</b>	2/22/2024	6	0.513	2.94	7.94	<0.101

**TABLE 2-3  
SOIL SAMPLE ANALYTICAL RESULTS  
SOIL SUITABILITY FOR RECLAMATION  
GNB W 31-3,4,5J,6 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)			0.432	1.69	8.30	0.196
Site-Specific Background Limits (3'-6')			3.86	24.3	8.59	2.66

**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 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.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

**TABLE 2-4**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**METALS**  
**GNB W 31-3,4,5J,6 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 (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
<b>ABOVEGROUND STORAGE TANK SAMPLES</b>												
AST01@0.5'	2/27/2024	0.5	1.51*	44.1	<0.0966	<0.5	<9.66	5.65	5.21	<0.251	<0.0966	<35.7
<b>PRODUCED WATER VESSEL SAMPLES</b>												
PWV-S01@3'	2/27/2024	3	4.41*	223*	0.424*	<2.5	34.3	<b>46.1</b>	12.2	<b>0.710</b>	0.415	132
PWV-B01@5'	2/27/2024	5	2.14*	102*	0.236	<2.5	12.1	12.2	6.50	0.366*	0.102	60.4
<b>SEPARATOR SAMPLES</b>												
SEP01-INLET@4'	2/27/2024	4	1.02*	30.3	0.116	<0.5	<9.41	3.94	2.31	<0.245	<0.0941	<34.8
SEP01-OUTLET@4'	2/27/2024	4	1.30*	43.1	<0.0959	<0.5	<9.59	6.34	3.51	<0.249	<0.0959	<35.5
<b>COMBINED EXCAVATION SAMPLES</b>												
B01@6'	4/5/2024	6	0.453*	18.2	<0.0859	NA	<8.59	1.30	0.908	<0.223	<0.0859	<31.8
B02@6'	4/5/2024	6	0.517*	9.14	<0.0845	NA	<8.45	1.56	<0.845	<0.220	<0.0845	<31.3
B03@6'	4/5/2024	6	0.450*	<9.67	<0.0967	NA	<9.67	1.38	<0.967	<0.251	<0.0967	<35.8
B04@6'	4/5/2024	6	0.603*	19.0	<0.0919	NA	<9.19	1.50	0.941	<0.239	<0.0919	<34.0
B05@6'	4/5/2024	6	0.606*	<9.95	<0.0995	NA	<9.95	1.56	1.68	<0.259	<0.0995	<36.8
B06@6'	4/5/2024	6	0.449*	<9.20	<0.0920	NA	<9.20	1.47	<0.920	<0.239	<0.0920	<34.0
B07@6'	4/5/2024	6	0.563*	<9.48	<0.0948	NA	<9.48	1.17	<0.948	<0.247	<0.0948	<35.1
E01@3'	4/5/2024	3	0.968*	16.3	<0.0874	NA	<8.74	3.16	1.52	<0.227	<0.0874	<32.3
E02@3'	4/5/2024	3	2.57*	9.60	0.0877	NA	<8.77	4.27	1.06	<0.228	<0.0877	<32.5
E03@3'	4/5/2024	3	0.653*	<9.53	<0.0953	NA	<9.53	1.69	<0.953	<0.248	<0.0953	<35.3
E04@3'	4/5/2024	3	0.640*	11.2	<0.0921	NA	<9.21	1.10	<0.921	<0.239	<0.0921	<34.1
E05@3'	4/5/2024	3	2.54*	138*	0.123	NA	8.69	8.37	7.96	<0.222	<0.0855	42.6
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	4/5/2024	3	1.07*	10.2	<0.0856	NA	<8.56	3.73	2.04	<0.222	<0.0856	<31.7
S02@3'	4/5/2024	3	0.998*	14.5	<0.0943	NA	<9.43	2.65	1.18	<0.245	<0.0943	<34.9
S03@3'	4/5/2024	3	0.915*	17.3	<0.0949	NA	<9.49	3.25	1.11	<0.247	<0.0949	<35.1
S04@3'	4/5/2024	3	1.10*	16.5	<0.0940	NA	<9.40	3.51	1.13	<0.244	<0.0940	<34.8
W01@3'	4/5/2024	3	0.766*	14.3	<0.0978	NA	<9.78	3.23	1.24	<0.254	<0.0978	<36.2
W02@3'	4/5/2024	3	3.37*	122*	0.229	NA	21.7	19.3*	9.42	0.434*	0.163	65.2
W03@3'	4/5/2024	3	3.23*	155*	0.277	NA	23.3	18.8*	11.3	<b>0.532</b>	0.149	79.7
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	0.417*	NA	NA
W04@3'	4/17/2024	3	3.33*	142*	0.436*	NA	27.5	28.0*	8.39	0.357*	0.295	84.6
W05@3'	4/17/2024	3	4.88*	<b>234</b>	0.285	NA	16.4	12.1	9.4	<b>0.845</b>	<0.0859	67.1
	5/13/2024		NA	154*	NA	NA	NA	NA	NA	<0.259	NA	NA
N01@3'	4/17/2024	3	2.16*	148*	0.107	NA	<9.65	10.1	8.28	0.274*	<0.0965	60.4
	5/13/2024		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N02@3'	4/17/2024	3	1.46*	22.9	<0.0877	NA	<8.77	2.98	1.48	<0.228	<0.0877	<32.5

**TABLE 2-4**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**METALS**  
**GNB W 31-3,4,5J,6 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 (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
<b>N03@3'</b>	4/17/2024	3	4.38*	60.8	0.198	NA	8.92	8.06	5.25	<0.231	<0.0890	<32.9
<b>B08@6'</b>	4/17/2024	6	0.426*	<8.42	<0.0842	NA	<8.42	1.44	<0.842	<0.219	<0.0842	<31.2
<b>FLOWLINE SAMPLES</b>												
<b>FL01@5'</b>	2/27/2024	5	2.03*	<b>232</b>	0.141	<2.5	8.82	9.84	8.52	0.356*	<0.0844	77.0
<b>FL02@5'</b>	4/5/2024	5	2.62*	73.2	0.178	<0.338	10.7	13.8	6.62	<0.252	0.099	41.1
<b>FL02@5'-V</b>	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FL03@5'</b>	4/5/2024	5	4.42*	115*	0.147	<0.257	10.1	11.1	7.34	0.381*	<0.0968	49.3
<b>FL03@5'-V</b>	4/5/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FL04@4'</b>	4/5/2024	4	5.54*	168*	<b>0.496</b>	<0.404	24.4	28.3*	9.26	0.411*	0.286	81.7
<b>FL04@4'-V</b>	4/5/2024	4	2.97*	145*	0.160	NA	12.8	11.9	8.69	0.284	0.0978	58.4
<b>FL05@4'</b>	4/5/2024	4	2.87*	97.9*	0.358	<0.327	19.4	19.9*	6.23	<0.248	0.253	59.7
<b>FL05@4'-V</b>	4/5/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FL06@5'</b>	4/5/2024	5	2.70*	103*	0.246	<b>0.179</b>	16.0	14.1*	8.91	<b>0.561</b>	0.122	71.9
<b>FL06@5'-V</b>	4/5/2024	5	NA	NA	NA	<0.378	NA	NA	NA	NA	NA	NA
<b>FL07@4'</b>	4/5/2024	4	3.07*	120*	<0.0927	<b>0.245</b>	9.63	9.99	8.12	<0.241	<0.0927	48.9
<b>FL07@4'-V</b>	4/5/2024	4	NA	NA	NA	<0.359	NA	NA	NA	NA	NA	NA
<b>FL08@3'</b>	4/11/2024	3	1.64*	42.1	0.114	<0.373	<8.84	6.41	2.83	<0.230	<0.0884	<32.7
<b>FL08@3'-V</b>	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FL09@2'</b>	4/11/2024	2	1.30*	26.4	<0.0964	<b>0.109</b>	<9.64	4.29	1.64	<0.251	<0.0964	<35.7
<b>FL09@2'-V</b>	4/11/2024	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/23/2024		NA	NA	NA	<0.333	NA	NA	NA	NA	NA	NA
<b>FL10@3'</b>	4/11/2024	3	2.38*	72.3	0.196	<0.387	11.5	10.3	5.14	<0.233	0.0978	36.7
<b>FL10@3'-V</b>	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FL11@3'</b>	4/11/2024	3	2.12*	53.7	0.157	<0.257	<9.99	6.58	3.86	<0.260	<0.0999	<36.9
<b>FL11@3'-V</b>	4/11/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>BACKGROUND SAMPLES</b>												
<b>TB-BG01@0.5'</b>	2/27/2024	0.5	2.30	104	0.160	<0.5	<9.75	9.40	6.20	<0.254	<0.0975	147
<b>NATIVE-BG01@3'</b>	2/27/2024	3	3.02	168	0.124	<0.5	10.5	11.9	7.44	0.508	<0.0915	90.2
<b>NATIVE-BG01@6'</b>	2/27/2024	6	0.902	34.8	<0.0844	<0.5	<8.44	3.70	1.85	<0.220	<0.0844	<31.2
<b>NATIVE-BG02@3'</b>	4/11/2024	3	2.51	46.1	0.289	<0.401	11.3	11.8	4.01	<0.248	0.170	39.7
<b>NATIVE-BG02@6'</b>	4/11/2024	6	1.55	29.0	<0.0893	<0.341	<8.93	2.61	1.82	<0.232	<0.0893	<33.1
<b>NATIVE-BG03@3'</b>	4/11/2024	3	1.47	66.2	<0.0996	<0.416	<9.96	3.60	2.59	<0.259	<0.0996	<36.9
<b>NATIVE-BG03@6'</b>	4/11/2024	6	1.69	43.3	<0.0963	<0.376	<9.63	3.54	2.53	<0.250	<0.0963	<35.6
<b>NATIVE-BG01@3' (Rem No. 32961)</b>	2/22/2024	3	1.62	50.1	<0.0946	<0.5	<9.46	4.69	3.42	<0.246	<0.0946	<35.0
<b>NATIVE-BG01@6' (Rem No. 32961)</b>	2/22/2024	6	2.48	67.7	0.135	<0.5	<9.26	9.10	5.56	<0.241	<0.0926	35.6
<b>NATIVE-BG02@3' (Rem No. 32961)</b>	2/22/2024	3	3.75	143	0.117	<0.5	13.0	11.3	9.44	<0.235	<0.0905	60.9

**TABLE 2-4  
SOIL SAMPLE ANALYTICAL RESULTS  
METALS  
GNB W 31-3,4,5J,6 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 (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
<b>NATIVE-BG02@6' (Rem No. 32961)</b>	2/22/2024	6	1.68	42.1	0.112	<0.5	<9.37	6.42	4.29	<0.244	<0.0937	<34.7
<b>NATIVE-BG03@3' (Rem No. 32961)</b>	2/22/2024	3	5.40	225	0.216	<2.5	16.4	15.9	13.4	0.396	0.0931	104
<b>NATIVE-BG03@6' (Rem No. 32961)</b>	2/22/2024	6	4.13	67.1	0.092	<1	<9.11	7.13	5.33	0.142	<0.0911	44.3
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 (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.30	104	0.160	NA	NA	9.40	6.20	NA	NA	147
Site-Specific Background Limits (3'-6')			6.09	230	0.444	NA	24.4	30.3	16.0	0.508	0.318	104
BACKGROUND SAMPLES												
<b>NATIVE-BG04@3' (Rem No. 32961)</b>	2/22/2024	3	6.09	215	0.197	<2.53	14.5	14.9	12.6	0.319	<0.0966	87.9
<b>NATIVE-BG04@6' (Rem No. 32961)</b>	2/22/2024	6	3.09	100	0.163	<0.5	<9.52	9.86	8.12	0.453	<0.0952	61.4
<b>NATIVE-BG05@3' (Rem No. 32961)</b>	2/22/2024	3	5.36	111	0.444	<0.5	24.4	30.3	7.72	0.232	0.318	94.6
<b>NATIVE-BG05@6' (Rem No. 32961)</b>	2/22/2024	6	1.10	35.4	<0.0914	<0.5	<9.14	3.53	2.14	<0.0914	<0.0914	34.6
<b>NATIVE-BG06@3' (Rem No. 32961)</b>	2/22/2024	3	5.36	230	0.367	<1	12.5	12.5	16.0	0.237	<0.0921	96.0
<b>NATIVE-BG06@6' (Rem No. 32961)</b>	2/22/2024	6	1.26	31.5	<0.0901	<0.5	<9.01	3.44	2.08	<0.0901	<0.0901	<33.3

**Notes:**

ECMC - Energy and Carbon Management Commission  
PGSSLs - 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  
GNB W 31-3,4,5J,6 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)
<b>ECMC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>	<b>1,938,000</b>	<b>286,000</b>	<b>524,000</b>	
GW01	3/27/2024	<1.00	<1.00	<1.00	<1.00	11.2	<2.00	<2.00	1,190,000	175,000	508,000	4.0
GW02	4/5/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,120,000	183,000	<b>526,000</b>	3.0
FL04-GW	4/5/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,130,000	193,000	<b>537,000</b>	3.5
FL05-GW	4/5/2024	<1.00	5.63	<1.00	4.37	<2.00	<2.00	<2.00	1,220,000	201,000	513,000	3.5
FL06-GW	4/5/2024	1.14	25.7	2.07	30.6	<2.00	3.91	<2.00	1,180,000	204,000	494,000	4.0
FL08-GW	4/11/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,150,000	223,000	423,000	3.0
FL09-GW	4/11/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,450,000	255,000	491,000	2.0
BG02-GW	4/11/2024	NA	NA	NA	NA	NA	NA	NA	1,350,000	251,000	486,000	6.0
BG03-GW	4/11/2024	NA	NA	NA	NA	NA	NA	NA	1,550,000	229,000	419,000	6.0

Notes: ECMC - Energy and Carbon Management Commission  
ft bgs - feet below ground surface  
NA - not analyzed/not available  
Total dissolved solids, chloride ion, and sulfate ion parameters based on background samples (BG02-GW & BG03-GW) concentration x 1.25  
**BOLD** = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

µg/L - micrograms per liter  
< - less than laboratory reporting limit  
Excavation groundwater depth is approximate

May 29, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - GNB W 31-3,4,5J,6 Facility    Project Number - 09A1417648**

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405380-01.

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

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

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

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

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

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



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

Jeremy Espinoza  
Project Number: O9A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3'	Y405380-01	Soil	May 13, 2024 10:00	05/13/2024 15:30
E05@3'	Y405380-02	Soil	May 13, 2024 10:05	05/13/2024 15:30
W03@3'	Y405380-03	Soil	May 13, 2024 10:10	05/13/2024 15:30
W05@3'	Y405380-04	Soil	May 13, 2024 10:15	05/13/2024 15:30

Origins Laboratory, Inc.



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Jeremy Espinoza  
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 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 14 05380

Client: Ensolum

Checklist Completed by: EHO

Client Project ID: GNB W 31-3,4,5J,6

Date/time completed: 5/13/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 116 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7005

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

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

Reviewed by (Project Manager) EHO

5/13/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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Jeremy Espinoza  
Project Number: O9A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

**N01@3'**

**5/13/2024 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405380-01 (Soil)**

**pH in Soil by 9045D**

pH	<b>8.38</b>		pH Units	1	B4E1627	GCG	05/16/2024	05/16/2024	
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Origins Laboratory, Inc.



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**E05@3'**

**5/13/2024 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405380-02 (Soil)**

**pH in Soil by 9045D**

pH	<b>8.30</b>		pH Units	1	B4E1627	GCG	05/16/2024	05/16/2024	
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**W03@3'**

**5/13/2024 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405380-03 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	0.417	0.247	mg/kg	10	B4E1339	JAH	05/13/2024	05/14/2024	
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Origins Laboratory, Inc.



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**W05@3'**

**5/13/2024 10:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405380-04 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	154	9.95	mg/kg	10	B4E1339	JAH	05/13/2024	05/14/2024	
Selenium	ND	0.259	"	"	"	JAH	"	"	

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 Project Number: O9A1417648  
 Project: KMG - GNB W 31-3,4,5J,6 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1339 - EPA 3050B**

**Blank (B4E1339-BLK1)**

Prepared: 05/13/2024 Analyzed: 05/14/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4E1339-BS1)**

Prepared: 05/13/2024 Analyzed: 05/14/2024

Arsenic	5.81	0.290	mg/kg	5.00		116	80-120			
Barium	560	10.0	"	500		112	80-120			
Cadmium	5.88	0.100	"	5.00		118	80-120			
Copper	46.0	10.0	"	50.0		92.0	80-120			
Lead	5.59	1.00	"	5.00		112	80-120			
Nickel	5.75	1.00	"	5.00		115	80-120			
Selenium	10.5	0.260	"	9.50		111	80-120			
Silver	6.02	0.100	"	5.00		120	80-120			
Zinc	58.1	37.0	"	50.0		116	80-120			

**Matrix Spike (B4E1339-MS1)**

Source: Y405383-02

Prepared: 05/13/2024 Analyzed: 05/14/2024

Arsenic	6.38	0.260	mg/kg	4.48	1.60	107	75-125			
Barium	565	8.97	"	448	49.2	115	75-125			
Cadmium	5.49	0.0897	"	4.48	0.143	119	75-125			
Copper	59.6	8.97	"	44.8	5.69	120	75-125			
Lead	15.2	0.897	"	4.48	11.2	88.2	75-125			

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 Project Number: O9A1417648  
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1339 - EPA 3050B**

**Matrix Spike (B4E1339-MS1)**

**Source: Y405383-02**

Prepared: 05/13/2024 Analyzed: 05/14/2024

Nickel	8.70	0.897	mg/kg	4.48	3.85	108	75-125			
Selenium	9.55	0.233	"	8.52	0.134	111	75-125			
Silver	5.44	0.0897	"	4.48	ND	121	75-125			
Zinc	78.1	33.2	"	44.8	28.4	111	75-125			

**Matrix Spike Dup (B4E1339-MSD1)**

**Source: Y405383-02**

Prepared: 05/13/2024 Analyzed: 05/14/2024

Arsenic	5.93	0.250	mg/kg	4.31	1.60	101	75-125	7.36	20	
Barium	499	8.61	"	431	49.2	105	75-125	12.3	20	
Cadmium	4.84	0.0861	"	4.31	0.143	109	75-125	12.4	20	
Copper	54.1	8.61	"	43.1	5.69	113	75-125	9.59	20	
Lead	14.9	0.861	"	4.31	11.2	84.4	75-125	2.14	20	
Nickel	8.05	0.861	"	4.31	3.85	97.6	75-125	7.78	20	
Selenium	8.15	0.224	"	8.18	0.134	98.0	75-125	15.8	20	
Silver	4.87	0.0861	"	4.31	ND	113	75-125	11.0	20	
Zinc	72.6	31.9	"	43.1	28.4	103	75-125	7.29	20	

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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
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**Batch B4E1627 - Saturated Paste pH/EC**

**Duplicate (B4E1627-DUP1)**

**Source: Y405380-01**

Prepared: 05/16/2024 Analyzed: 05/16/2024

pH	8.30		pH Units		8.38			0.959	25	
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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: O9A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

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### Notes and Definitions

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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June 13, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - GNB W 31-3,4,5J,6 Facility    Project Number - 09A1417648**

Attached are your analytical results for KMG - GNB W 31-3,4,5J,6 Facility received by Origins Laboratory, Inc. May 23, 2024. This project is associated with Origins project number Y405696-01.

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.

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Jeremy Espinoza  
Project Number: 09A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL09@2'-V	Y405696-01	Soil	May 23, 2024 11:35	05/23/2024 14:25

Origins Laboratory, Inc.



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 Project Number: 09A1417648  
 Project: KMG - GNB W 31-3,4,5J,6 Facility

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 140506910 Client: Ensolum  
 Client Project ID: GNB W 31-3  
 Checklist Completed by: JST/ETH Shipped Via: TUP  
 Date/time completed: 5/23/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1.12 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature]

5/23/24  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Jeremy Espinoza  
Project Number: 09A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

**FL09@2'-V**

**5/23/2024 11:35:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y405696-01 (Soil)**

**Total Metals 7196A**

Hexavalent Chromium	ND	0.133	0.333	mg/kg dry	1	2619665	06/01/2024	06/03/2024	U
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Origins Laboratory, Inc.



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Jeremy Espinoza  
 Project Number: 09A1417648  
 Project: KMG - GNB W 31-3,4,5J,6 Facility

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2619665 - SW846 3060A</b>										
<b>BLANK (1205748989-BLK)</b>					Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	ND	0.292	mg/kg				-			U
<b>LCS (1205748990-BKS)</b>					Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	3.13	0.318	mg/kg	3.18		98.4	80-120			
<b>DUP (1205748991 D)</b>					Source: 669286001 Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	ND	0.415	mg/kg dry		<0.166		0-50	N/A	50	U
<b>MS (1205748992 S)</b>					Source: 669286001 Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	2.90	0.415	mg/kg dry	4.15	<0.166	69.5	75-125			
<b>DUP (1205748993 D)</b>					Source: 669578001 Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	ND	0.462	mg/kg dry		<0.185		0-50	N/A	50	U
<b>MS (1205748994 S)</b>					Source: 669578001 Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	3.84	0.462	mg/kg dry	4.62	<0.185	81.6	75-125			
<b>ILCS (1205748995-ILCS)</b>					Prepared: 06/01/2024 Analyzed: 06/03/2024					
Hexavalent Chromium	7.43	0.348	mg/kg	7.07		105	80-120			

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Jeremy Espinoza  
Project Number: 09A1417648  
Project: KMG - GNB W 31-3,4,5J,6 Facility

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**Notes and Definitions**

U Result not detected above the detection limit

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.



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