

FIGURES



Approximate site location



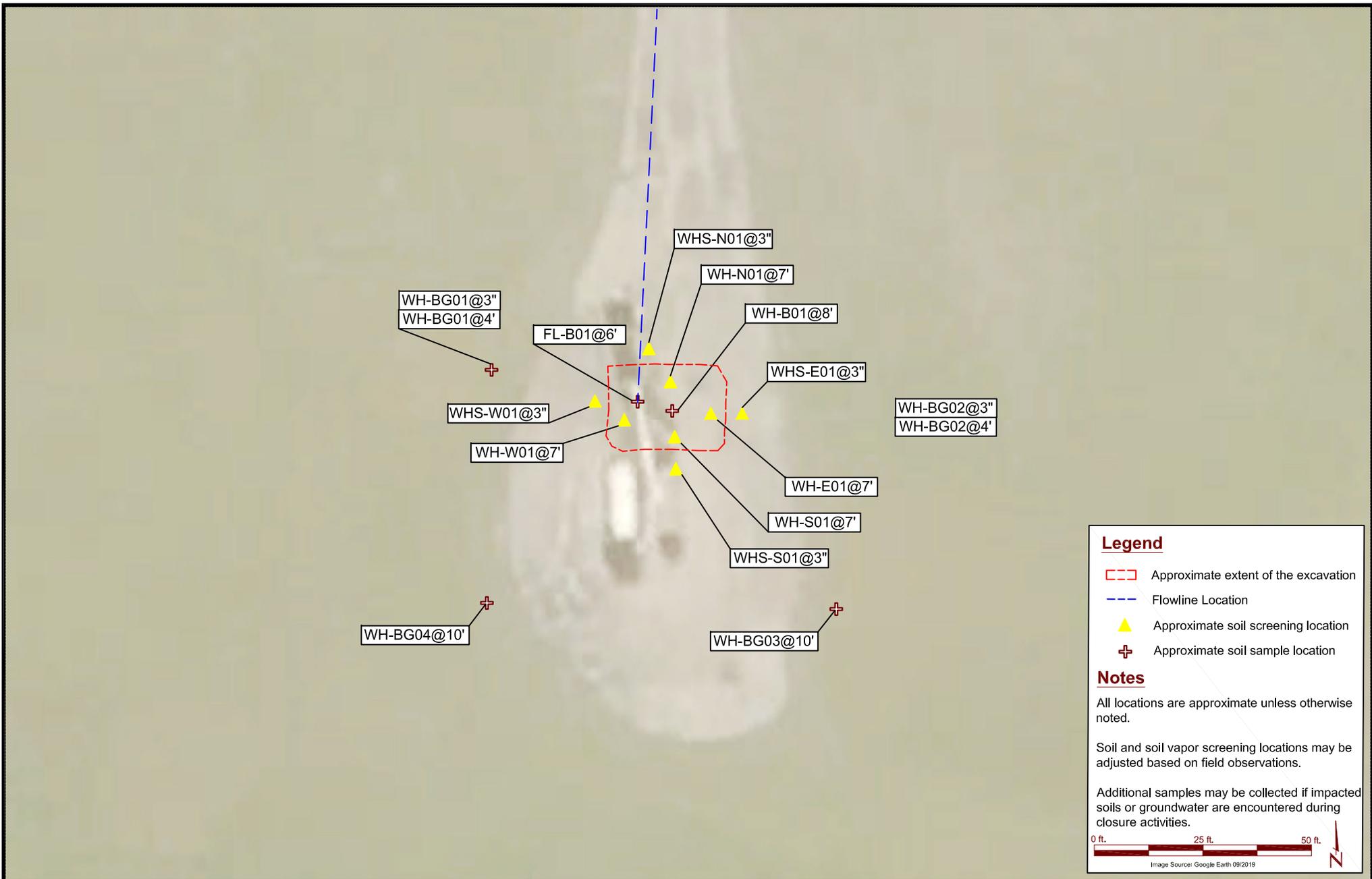
Figure 1

Site Location Map
Murfin Drilling Company
 Skyfall 2-5
 NWNE Sec.5-T9S-R55W
 Lincoln County, Colorado



Source: USGS 7.5 Minute Topographic Map, Genoa West, CO Quadrangle

Drawn By: AM Date: 05/31/2023



DATE: December 27, 2023

DESIGNED BY: D. Coloccia

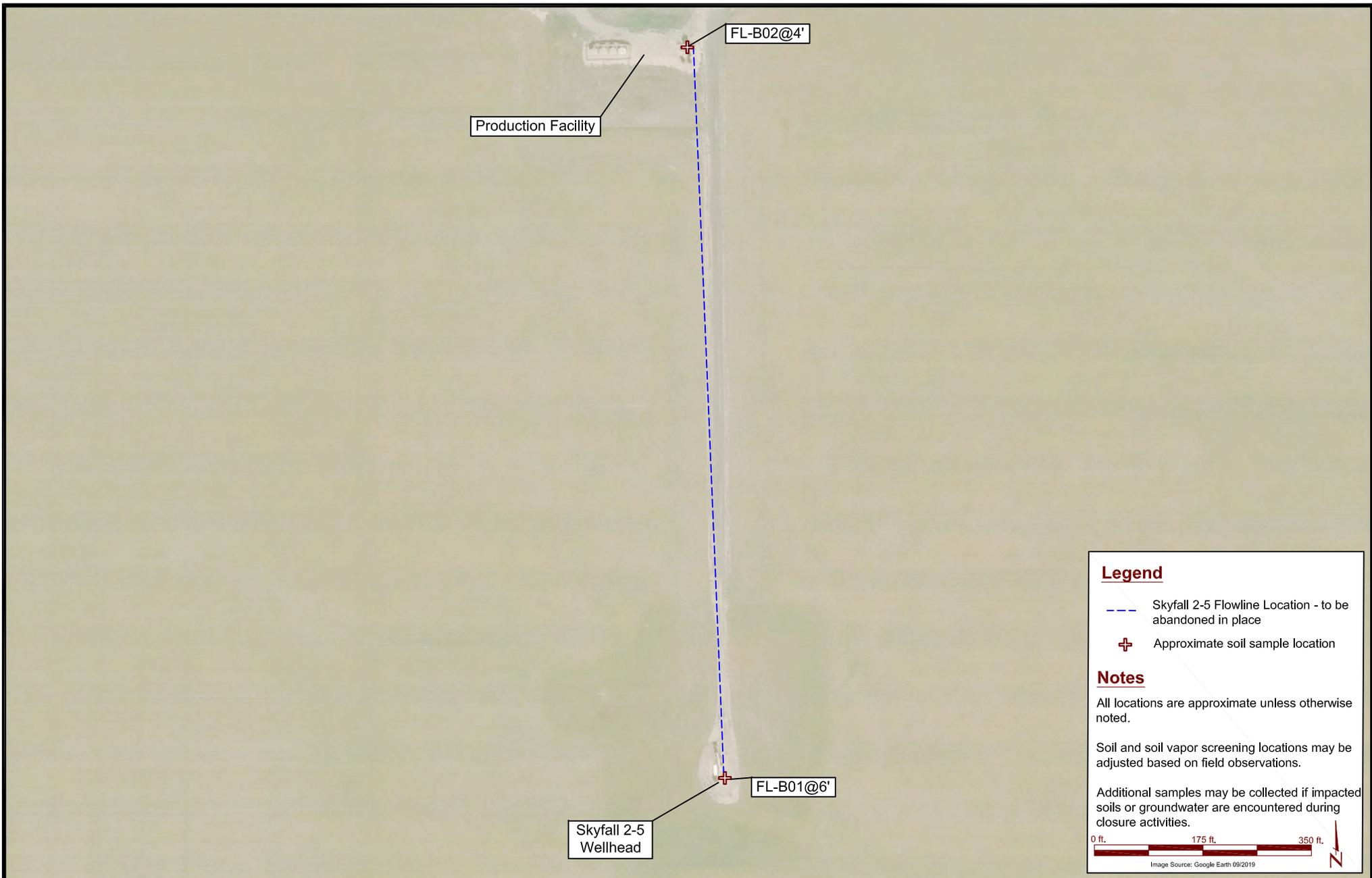
DRAWN BY: A. McNall



Murfin Drilling Company
Skyfall 2-5 Wellhead
 NWNE Sec. 5-T9S-R55W
 Lincoln County, Colorado

Screening and Sample Location Map

Figure 2



DATE: November 07, 2023

DESIGNED BY: D. Coloccia

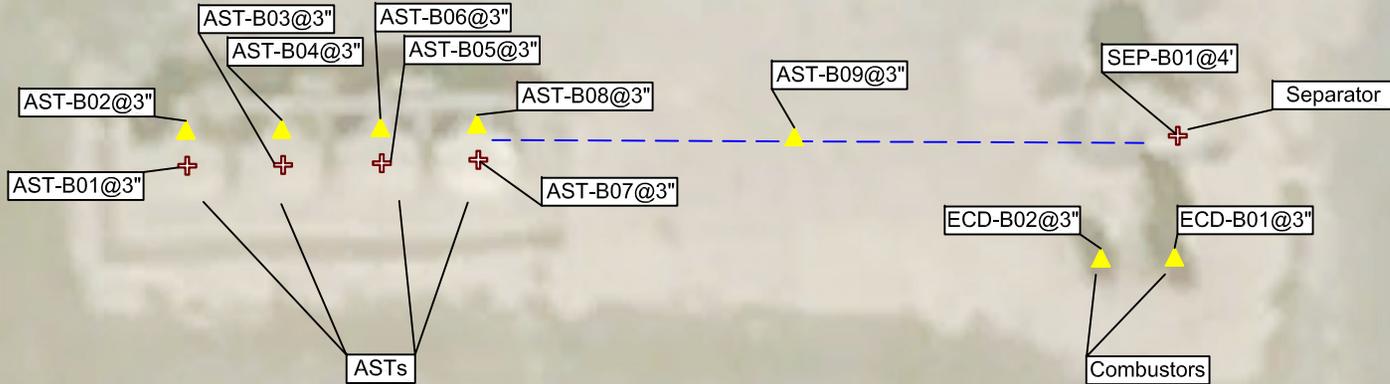
DRAWN BY: A. McNall



Murfin Drilling Company
Skyfall 2-5 Flowline
 NWNE Sec. 5-T9S-R55W
 Lincoln County, Colorado

Screening and Sample
 Location Map

Figure
 3



Legend

- Dump Line Location
- + Approximate soil sample location
- ▲ Approximate soil screening location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 25 ft. 50 ft.

N

Image Source: Google Earth 08/2019

DATE: November 07, 2023

DESIGNED BY: D. Coloccia

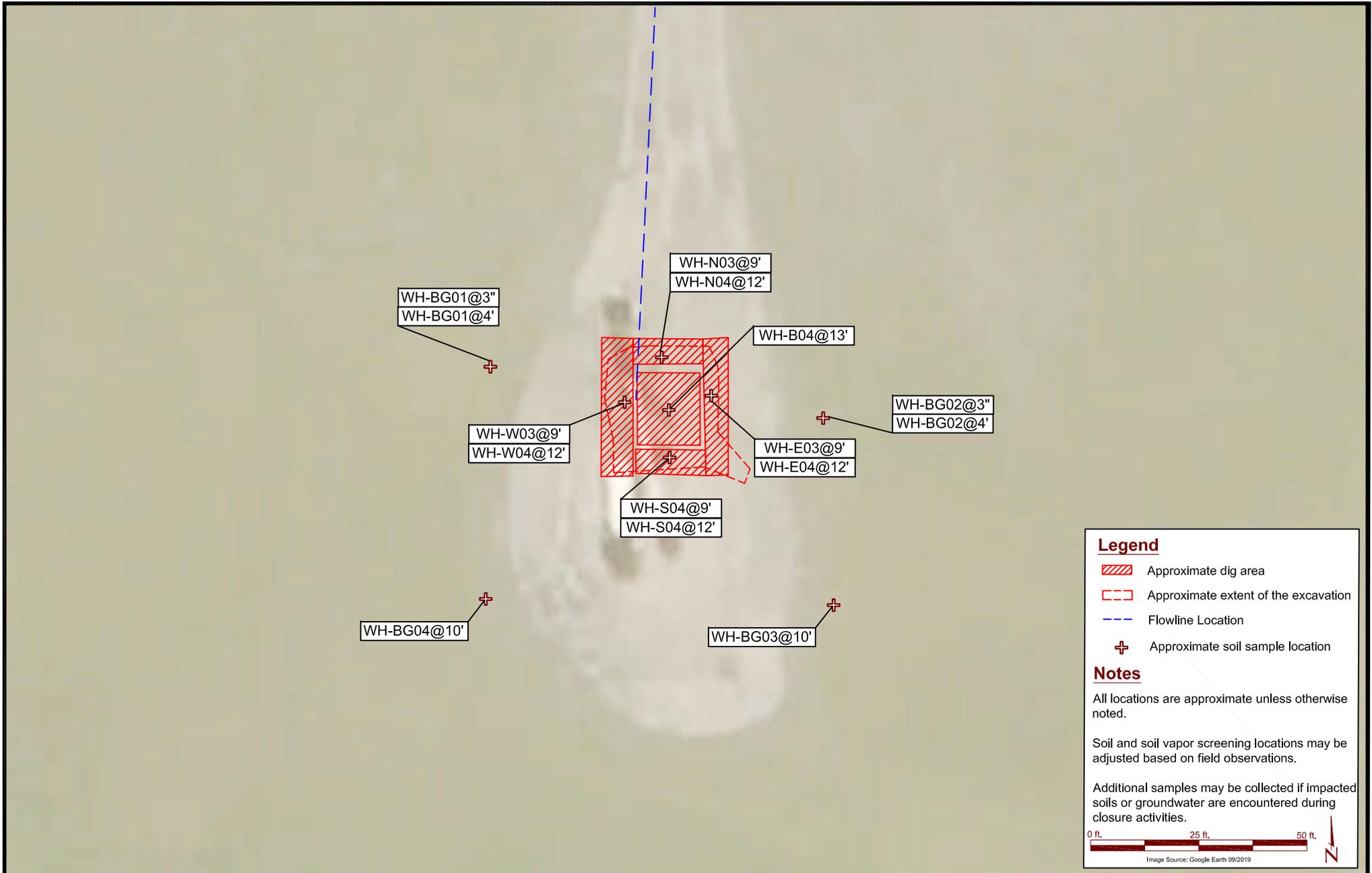
DRAWN BY: A. McNall



Murfin Drilling Company
Skyfall 2-5 Production Facility
 NWNE Sec. 5-T9S-R55W
 Lincoln County, Colorado

Screening and Sample
 Location Map

Figure
 4



Legend

-  Approximate dig area
-  Approximate extent of the excavation
-  Flowline Location
-  Approximate soil sample location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 25 ft. 50 ft. 

Image Source: Google Earth 09/2019

DATE: March 19, 2024

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall



Murfin Drilling Company
Skyfall 2-5 Wellhead
 NWNE Sec. 5-T9S-R55W
 Lincoln County, Colorado

Excavation Sample Location
 Map

Figure
 5

TABLES

**TABLE 1
SKYFALL 2-5
SOIL SAMPLE FIELD DATA SUMMARY TABLE
MURFIN DRILLING COMPANY**

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Wellhead Soil Samples							
WH-B01 @ 8'	9/7/2023	8	10.8	N/S	N/O	39.2987979809214, -103.573526773198	Y
WH-N01 @ 7'	9/7/2023	7	7.6	N/S	N/O	39.2988100455567, -103.573529623044	N
WH-S01 @ 7'	9/7/2023	7	0.0	N/S	N/O	39.2987870895569, -103.573524164401	N
WH-E01 @ 7'	9/7/2023	7	0.0	N/S	N/O	39.2987995376472, -103.573506321359	N
WH-W01 @ 7'	9/7/2023	7	3.6	N/S	N/O	39.2987911053779, -103.573561138994	N
WHS-N01 @ 3"	9/7/2023	0.25	4.1	N/S	N/O	39.2988247047357, -103.573550745433	N
WHS-S01 @ 3"	9/7/2023	0.25	3.6	N/S	N/O	39.298777038736, -103.573523390685	N
WHS-E01 @ 3"	9/7/2023	0.25	4.8	N/S	N/O	39.2987992781912, -103.573484025502	N
WHS-W01 @ 3"	9/7/2023	0.25	4.0	N/S	N/O	39.2988006936218, -103.573578449607	N
WH-B02 @ 9'	10/25/2023	9	0.8	N/S	N/O	39.298800, -103.573559	Y
WH-N02 @ 8'	10/25/2023	8	0.4	N/S	N/O	39.298805, -103.573546	Y
WH-E02 @ 8'	10/25/2023	8	0.7	N/S	N/O	39.2988081, -103.573515	Y
WH-S02 @ 8'	10/25/2023	8	0.7	N/S	N/O	39.298792, -103.573549	Y
WH-W02 @ 8'	10/25/2023	8	0.8	N/S	N/O	39.2987961, -103.573575	Y
WH-B03 @ 12'	12/1/2023	12	0.0	N/S	N/O	39.298804, -103.573539	Y
WH-N03 @ 9'	12/1/2023	9	0.0	N/S	N/O	39.298830, -103.573549	Y
WH-E03 @ 9'	12/1/2023	9	0.1	N/S	N/O	39.298781, -103.573550	Y
WH-S03 @ 9'	12/1/2023	9	0.2	N/S	N/O	39.298803, -103.573572	Y
WH-W03 @ 9'	12/1/2023	9	0.0	N/S	N/O	39.298803, -103.573505	Y
WH-B04 @ 13'	2/27/2024	13	10.1	N/S	N/O	39.298804, -103.573539	Y
WH-N04 @ 12'	2/27/2024	12	3.2	N/S	N/O	39.298830, -103.573549	Y
WH-E04 @ 12'	2/27/2024	12	3.9	N/S	N/O	39.298781, -103.573550	Y
WH-S04 @ 12'	2/27/2024	12	2.3	N/S	N/O	39.298772, -103.573550	Y
WH-W04 @ 12'	2/27/2024	12	3.8	N/S	N/O	39.298803, -103.573505	Y
WH-S04 @ 9'	2/27/2024	9	3.8	N/S	N/O	39.298772, -103.573550	Y
Flowline Soil Samples							
FL-B01 @ 6'	9/7/2023	6	4.9	N/S	N/O	39.2987994079232, -103.573555271662	Y
FL-B02 @ 4'	10/25/2023	4	0.2	N/S	N/O	39.301836, -103.573698	Y
Facility Soil Samples							
SEP-B01 @ 4'	10/25/2023	4	0.4	N/S	N/O	39.301840, -103.573726	Y
AST-B01 @ 3"	10/25/2023	0.25	0.6	N/S	N/O	39.301824, -103.574254	Y
AST-B02 @ 3"	10/25/2023	0.25	0.7	N/S	N/O	39.301842, -103.574250	N
AST-B03 @ 3"	10/25/2023	0.25	0.8	N/S	N/O	39.301826, -103.574198	Y
AST-B04 @ 3"	10/25/2023	0.25	1.1	N/S	N/O	39.301844, -103.574196	N
AST-B05 @ 3"	10/25/2023	0.25	0.7	N/S	N/O	39.301827, -103.574148	Y
AST-B06 @ 3"	10/25/2023	0.25	0.8	N/S	N/O	39.301848, -103.574147	N
AST-B07 @ 3"	10/25/2023	0.25	0.6	N/S	N/O	39.301832, -103.574098	Y
AST-B08 @ 3"	10/25/2023	0.25	0.8	N/S	N/O	39.301848, -103.574094	N
ECD-B01 @ 3"	10/25/2023	0.25	0.3	N/S	N/O	39.301795, -103.573707	N
ECD-B02 @ 3"	10/25/2023	0.25	0.5	N/S	N/O	39.301790, -103.573764	N
AST-B09 @ 3"	10/25/2023	0.25	0.6	N/S	N/O	39.301833, -103.573914	N
Wellhead Background Soil Samples							
WH-BG01 @ 3"	9/7/2023	0.25	1.4	N/S	N/O	39.2988050881543, -103.573677457695	Y
WH-BG01 @ 4'	9/7/2023	4	0.9	N/S	N/O	39.2988050881543, -103.573677457695	Y
WH-BG02 @ 3"	9/7/2023	0.25	0.0	N/S	N/O	39.2987951269135, -103.57340959422	Y
WH-BG02 @ 4'	9/7/2023	4	0.1	N/S	N/O	39.2987951269135, -103.57340959422	Y
WH-BG03 @ 10'	12/1/2023	10	0.1	N/S	N/O	39.298674, -103.573416	Y
WH-BG04 @ 10'	12/1/2023	10	0	N/S	N/O	39.298650, -103.573667	Y

Notes:

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

BOLD = ECMC Table 915-1 exceedence

N/S = No Staining

N/O = No Odor



TABLE 2
SKYFALL 2-5
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
MURFIN DRILLING COMPANY

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9		500		0.0038	0.0081	0.0087
ECMC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58		500		2	30	27
Wellhead Soil Samples											
WH-B01 @ 8'	9/7/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	406	376	<0.00380	<0.00200	<0.00200
WH-B02 @ 9'	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	NA	NA	NA
WH-N02 @ 8'	10/25/2023	NA	NA	NA	NA	<0.200	71.6	113	NA	NA	NA
WH-E02 @ 8'	10/25/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-S02 @ 8'	10/25/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-W02 @ 8'	10/25/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-B03 @ 12'	12/1/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-N03 @ 9'	12/1/2023	NA	NA	NA	NA	<0.200	46.7	<100	NA	NA	NA
WH-S03 @ 9'	12/1/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-E03 @ 9'	12/1/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-W03 @ 9'	12/1/2023	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-B04 @ 13'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-N04 @ 12'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-E04 @ 12'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-S04 @ 12'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-W04 @ 12'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
WH-S04 @ 9'	2/27/2024	NA	NA	NA	NA	<0.200	<25.0	<100	NA	NA	NA
Flowline Soil Samples											
FL-B01 @ 6'	9/7/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B02 @ 4'	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
Facility Soil Samples											
SEP-B01 @ 4'	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B01 @ 3"	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B03 @ 3"	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B05 @ 3"	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B07 @ 3"	10/25/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200

Notes:

⁽¹⁾ ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

NA = Not Analyzed

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene



TABLE 3
SKYFALL 2-5
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
MURFIN DRILLING COMPANY

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>			6 - 8.3	<6	<4	2
Wellhead Soil Samples						
WH-B01 @ 8'	9/7/2023	8	8.16	2.83	1.17	0.395
Flowline Soil Samples						
FL-B01 @ 6'	9/7/2023	6	7.83	1.45	1.95	0.400
FL-B02 @ 4'	10/25/2023	4	7.90	0.490	1.07	0.353
Facility Soil Samples						
SEP-B01 @ 4'	10/25/2023	4	7.85	0.469	0.800	0.371
AST-B01 @ 3"	10/25/2023	0.25	6.10	1.15	1.30	<1.00
AST-B03 @ 3"	10/25/2023	0.25	6.63	1.83	1.50	<1.01
AST-B05 @ 3"	10/25/2023	0.25	7.50	4.27	3.50	<0.998
AST-B07 @ 3"	10/25/2023	0.25	7.39	2.65	2.79	0.582
Background Soil Samples						
WH-BG01 @ 3"	9/7/2023	0.25	7.64	0.0838	0.327	<1.01
WH-BG01 @ 4'	9/7/2023	4	8.11	0.243	0.327	0.377
WH-BG02 @ 3"	9/7/2023	0.25	8.09	0.0690	0.451	0.264
WH-BG02 @ 4'	9/7/2023	4	7.95	0.112	0.3550	<1.00

Notes:

⁽¹⁾ Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity



**TABLE 5
SKYFALL 2-5
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
MURFIN DRILLING COMPANY**

Sample Location	Date	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)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Site-Specific Background Limits</i>		6.62	260	0.42	NA	17	20	18	1.46	NA	NA
Wellhead Soil Samples											
WH-B01 @ 8'	9/7/2023	5.51*	209*	0.239	*<0.511	12.5	12.4	12.9	0.220	<0.0960	<96.0
WH-B02 @ 9'	10/25/2023	5.97*	263	0.251	NA	12.8	11.7	15.3	0.150	NA	NA
WH-N02 @ 8'	10/25/2023	5.87*	284	0.221	NA	12.5	11.5	15.0	0.159	NA	NA
WH-E02 @ 8'	10/25/2023	5.69*	381	0.239	NA	13.0	11.6	15.1	0.197	NA	NA
WH-S02 @ 8'	10/25/2023	6.32*	230*	0.255	NA	16.9	11.8	NA	0.141	NA	NA
WH-S02 @ 8' RERUN 1	10/25/2023	NA	NA	NA	NA	NA	NA	12.6	NA	NA	NA
WH-S02 @ 8' RERUN 2	10/25/2023	NA	NA	NA	NA	NA	NA	12.8	NA	NA	NA
WH-W02 @ 8'	10/25/2023	5.68*			NA			15.3	0.133	NA	NA
WH-B03 @ 12'	12/1/2023	5*	332	0.275	NA	12.2	10.4	13.5	1.59	NA	NA
WH-N03 @ 9'	12/1/2023	4.61*	232*	0.247	NA	12.3	9.54	13.1	<2.5	NA	NA
WH-S03 @ 9'	12/1/2023	4.38*	214*	0.224	NA	11.8	9.39	12.6	1.29*	NA	NA
WH-E03 @ 9'	12/1/2023	4.44*	241*	0.221	NA	12.1	9.36	12.8	<2.5	NA	NA
WH-W03 @ 9'	12/1/2023	4.23*	205*	0.211	NA	11	9.18	11.5	1.15*	NA	NA
WH-B04 @ 13'	2/27/2024	6.62*	451	0.273	NA	<9.41	9.77	12.1	<0.245	NA	NA
WH-N04 @ 12'	2/27/2024	7.05	539	0.332	NA	10.7	13.2	15.3	<0.247	NA	NA
WH-E04 @ 12'	2/27/2024	7.17	326	0.335	NA	10.8	13.8	15.3	<0.227	NA	NA
WH-S04 @ 12'	2/27/2024	6.70	3730	0.314	NA	<8.92	8.90	11.1	<0.232	NA	NA
WH-W04 @ 12'	2/27/2024	7.24	896	0.314	NA	<9.60	11.5	14.4	<0.250	NA	NA
WH-S04 @ 9'	2/27/2024	7.32	357	0.342	NA	13.0	16.1	17.3	<0.244	NA	NA
Background Soil Samples											
WH-BG01 @ 3"	9/7/2023	4.09	129	0.260	<2.52	11.2	13.0	11.8	0.219	<0.0841	<84.1
WH-BG01 @ 4'	9/7/2023	5.30	208	0.277	<2.55	13.4	14.0	14.4	0.199	<0.0851	<85.1
WH-BG02 @ 3"	9/7/2023	5.31	175	0.338	<1.02	14.3	16.3	14.3	0.318	<0.0953	<95.3

TABLE 4
SKYFALL 2-5
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
MURFIN DRILLING COMPANY

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
ECMC standards for soil (mg/kg) ⁽²⁾		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Wellhead Soil Samples															
WH-B01 @ 8'	9/7/2023	0.153	0.115	0.111	<0.020	<0.020	<0.020	<0.020	<0.020	0.069	<0.020	<0.020	0.161	<0.020	0.031
WH-B02 @ 9'	10/25/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-N02 @ 8'	10/25/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-E02 @ 8'	10/25/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-S02 @ 8'	10/25/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-W02 @ 8'	10/25/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-B03 @ 12'	12/1/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-N03 @ 9'	12/1/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-S03 @ 9'	12/1/2023	0.008	0.006	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-E03 @ 9'	12/1/2023	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-W03 @ 9'	12/1/2023	0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-B04 @ 13'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-N04 @ 12'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-E04 @ 12'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-S04 @ 12'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-W04 @ 12'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020
WH-S04 @ 9'	2/27/2024	<0.002	<0.002	<0.020	NA	NA	NA	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

NA = Not Analyzed

TABLE 5
SKYFALL 2-5
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
MURFIN DRILLING COMPANY

Sample Location	Date	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)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH-BG02 @ 4'	9/7/2023	3.76	148	0.284	<2.55	12.1	12.7	12.0	0.255	<0.0938	<93.8
WH-BG03 @ 10'	12/1/2023	4.27	157	0.215	NA	11.8	9.06	14	1.05	NA	NA
WH-BG04 @ 10'	12/1/2023	4.43	163	0.223	NA	12.9	9.7	14.9	1.17	NA	NA

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations.

Values presented in **BOLD*** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations, but are within background concentrations.

* = compound is in accordance with the ECMC Table 915-1 Footnote 9.

NA = Not Analyzed



**ATTACHMENT A
LABORATORY DATA**



September 25, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - Skyfall 2-5

Project Number - [none]

Attached are your analytical results for Murfin - Skyfall 2-5 received by Origins Laboratory, Inc. September 07, 2023. This project is associated with Origins project number Y309114-01.

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



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y309114-01	Soil	September 7, 2023 11:11	09/07/2023 14:20
FL-B01@6'	Y309114-02	Soil	September 7, 2023 11:20	09/07/2023 14:20
WH-BG01@3"	Y309114-03	Soil	September 7, 2023 11:33	09/07/2023 14:20
WH-BG01@4'	Y309114-04	Soil	September 7, 2023 11:40	09/07/2023 14:20
WH-BG02@3"	Y309114-05	Soil	September 7, 2023 11:34	09/07/2023 14:20
WH-BG02@4'	Y309114-06	Soil	September 7, 2023 12:03	09/07/2023 14:20

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB09114

Client: Eagle

Client Project ID: Skyfall 2-5

Checklist Completed by: JTB/CHS

Shipped Via: TD

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

Date/time completed: 9/7/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

Cooler Number/Temperature: 1, 4 °C / 1 °C / 1 °C (Describe) °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) JTB

Date/Time Reviewed 9-11-23

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B01@8'
9/7/2023 11:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.395		0.0984	mg/L	1	B3I1111	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	406		25.0	mg/kg	1	B3I1221	09/12/2023	09/14/2023	
Residual Range Organics (C28-C40)	376		100	"	"	"	"	"	

Surrogate: o-Terphenyl	91.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I0804	09/08/2023	09/08/2023	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.



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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B01@8'

9/7/2023 11:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B31080 4	09/08/2023	09/08/2023	
Surrogate: Toluene-d8	96.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.00		0.499	meq/L	10	[CALC]	09/09/2023	09/11/2023	
Magnesium	1.76		0.823	"	"	"	"	"	
Sodium	4.37		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.153		0.002	mg/kg	1	B311809	09/18/2023	09/18/2023	
2-Methylnaphthalene	0.115		0.002	"	"	"	"	"	
Acenaphthene	0.111		0.020	"	"	"	"	"	
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	0.069		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B01@8'

9/7/2023 11:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y309114-01 (Soil)**

PAH by EPA 8270E

Fluorene	0.161		0.020	mg/kg	1	B311809	09/18/2023	09/18/2023	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	0.031		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	110 %		60-130			"	"	"	
Surrogate: Anthracene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B310905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	2.83		0.0100	SAR	1	B310902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17		0.00500	mmhos/cm	1	B310905	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.51		0.0960	mg/kg	10	B311807	09/18/2023	09/20/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B01@8'
9/7/2023 11:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-01 (Soil)

Table 915 metals by EPA 6020B

Barium	209		9.60	mg/kg	10	B311807	09/18/2023	09/20/2023	
Cadmium	0.239		0.0960	"	"	"	"	"	
Copper	12.5		9.60	"	"	"	"	"	
Lead	12.4		9.60	"	"	"	"	"	
Nickel	12.9		9.60	"	"	"	"	"	
Selenium	0.220		0.0960	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		96.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L705517	09/07/2023	09/20/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

FL-B01@6'

9/7/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.400		0.100	mg/L	1	B3I1111	09/11/2023	09/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I1221	09/12/2023	09/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I0804	09/08/2023	09/08/2023	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.



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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

FL-B01@6'

9/7/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B31080 4	09/08/2023	09/08/2023	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.30		0.499	meq/L	10	[CALC]	09/09/2023	09/11/2023	
Magnesium	4.10		0.823	"	"	"	"	"	
Sodium	3.62		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.83			pH Units	1	B310905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	1.45		0.0100	SAR	1	B310902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.95		0.00500	mmhos/cm	1	B310905	09/09/2023	09/10/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG01@3"
9/7/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.01	mg/L	10	B3I1111	09/11/2023	09/12/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.60		0.499	meq/L	"	[CALC]	09/09/2023	09/11/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.64			pH Units	1	B3I0905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	0.0838		0.0100	SAR	1	B3I0902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.327		0.00500	mmhos/cm	1	B3I0905	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.09		0.0841	mg/kg	10	B3I1807	09/18/2023	09/20/2023	
Barium	129		8.41	"	"	"	"	"	
Cadmium	0.260		0.0841	"	"	"	"	"	
Copper	11.2		8.41	"	"	"	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG01@3"
9/7/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-03 (Soil)

Table 915 metals by EPA 6020B

Lead	13.0		8.41	mg/kg	10	B311807	09/18/2023	09/20/2023	
Nickel	11.8		8.41	"	"	"	"	"	
Selenium	0.219		0.0841	"	"	"	"	"	
Silver	ND		0.0841	"	"	"	"	"	
Zinc	ND		84.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.52	mg/Kg	5	L705517	09/07/2023	09/20/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG01@4'
9/7/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.377		0.0997	mg/L	1	B3I1111	09/11/2023	09/12/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.67		0.499	meq/L	10	[CALC]	09/09/2023	09/11/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B3I0905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	0.243		0.0100	SAR	1	B3I0902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.327		0.00500	mmhos/cm	1	B3I0905	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.30		0.0851	mg/kg	10	B3I1807	09/18/2023	09/20/2023	
Barium	208		8.51	"	"	"	"	"	
Cadmium	0.277		0.0851	"	"	"	"	"	
Copper	13.4		8.51	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG01@4'
9/7/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-04 (Soil)

Table 915 metals by EPA 6020B

Lead	14.0		8.51	mg/kg	10	B311807	09/18/2023	09/20/2023	
Nickel	14.4		8.51	"	"	"	"	"	
Selenium	0.199		0.0851	"	"	"	"	"	
Silver	ND		0.0851	"	"	"	"	"	
Zinc	ND		85.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.24	2.55	mg/Kg	5	L705518	09/07/2023	09/20/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG02@3"
9/7/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.992	mg/L	10	B3I1111	09/11/2023	09/12/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.46		0.499	meq/L	"	[CALC]	09/09/2023	09/11/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B3I0905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	0.0690		0.0100	SAR	1	B3I0902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.451		0.00500	mmhos/cm	1	B3I0905	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.31		0.0953	mg/kg	10	B3I1807	09/18/2023	09/20/2023	
Barium	175		9.53	"	"	"	"	"	
Cadmium	0.338		0.0953	"	"	"	"	"	
Copper	14.3		9.53	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG02@3"

9/7/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-05 (Soil)

Table 915 metals by EPA 6020B

Lead	16.3		9.53	mg/kg	10	B311807	09/18/2023	09/20/2023	
Nickel	14.3		9.53	"	"	"	"	"	
Selenium	0.318		0.0953	"	"	"	"	"	
Silver	ND		0.0953	"	"	"	"	"	
Zinc	ND		95.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L705518	09/07/2023	09/20/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG02@4'
9/7/2023 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.00	mg/L	10	B3I1111	09/11/2023	09/12/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.85		0.499	meq/L	"	[CALC]	09/09/2023	09/11/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.95			pH Units	1	B3I0905	09/09/2023	09/10/2023	
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SAR by 20B Saturated Paste

SAR	0.112		0.0100	SAR	1	B3I0902	09/09/2023	09/11/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.355		0.00500	mmhos/cm	1	B3I0905	09/09/2023	09/10/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.76		0.0938	mg/kg	10	B3I1807	09/18/2023	09/20/2023	
Barium	148		9.38	"	"	"	"	"	
Cadmium	0.284		0.0938	"	"	"	"	"	
Copper	12.1		9.38	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG02@4'

9/7/2023 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309114-06 (Soil)

Table 915 metals by EPA 6020B

Lead	12.7		9.38	mg/kg	10	B311807	09/18/2023	09/20/2023	
Nickel	12.0		9.38	"	"	"	"	"	
Selenium	0.255		0.0938	"	"	"	"	"	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	ND		93.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.24	2.55	mg/Kg	5	L705518	09/07/2023	09/20/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0804 - EPA 5030 (soil)

Blank (B3I0804-BLK1)

Prepared: 09/08/2023 Analyzed: 09/08/2023

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	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0804 - EPA 5030 (soil)

LCS (B3I0804-BS1)

Prepared: 09/08/2023 Analyzed: 09/08/2023

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Benzene	0.0950	0.00200	"	0.100		95.0	70-130			
Ethylbenzene	0.0932	0.00200	"	0.100		93.2	70-130			
Naphthalene	0.0893	0.00380	"	0.100		89.3	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0950	0.00200	"	0.100		95.0	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0804 - EPA 5030 (soil)

Matrix Spike (B3I0804-MS1)	Source: Y309070-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.0705	0.00200	"	0.100	ND	70.5	70-130			
Benzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Ethylbenzene	0.0740	0.00200	"	0.100	ND	74.0	70-130			
Naphthalene	0.0772	0.00380	"	0.100	ND	77.2	70-130			
Toluene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0804 - EPA 5030 (soil)

Matrix Spike Dup (B3I0804-MSD1)	Source: Y309070-01			Prepared: 09/08/2023 Analyzed: 09/08/2023						
1,2,4-Trimethylbenzene	0.0808	0.00200	mg/kg	0.100	ND	80.8	70-130	4.53	20	
1,3,5-Trimethylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	4.22	20	
Benzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	6.62	20	
Ethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130	7.01	20	
Naphthalene	0.0872	0.00380	"	0.100	ND	87.2	70-130	12.2	20	
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130	5.89	20	
o-Xylene	0.0826	0.00200	"	0.100	ND	82.6	70-130	8.14	20	
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.6	70-130	7.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I1221 - EPA 3550B										
Blank (B3I1221-BLK1)										
					Prepared: 09/12/2023 Analyzed: 09/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.0	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I1221 - EPA 3550B

LCS (B3I1221-BS1)

Prepared: 09/12/2023 Analyzed: 09/14/2023

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	70-130			
Residual Range Organics (C28-C40)	891	200	"	1000		89.1	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.2	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I1221 - EPA 3550B

Matrix Spike (B3I1221-MS1)	Source: Y309112-01			Prepared: 09/12/2023 Analyzed: 09/14/2023						
Diesel (C10-C28)	864	50.0	mg/kg	1000	ND	86.4	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000	ND	87.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B311221 - EPA 3550B

Matrix Spike Dup (B311221-MSD1)	Source: Y309112-01			Prepared: 09/12/2023 Analyzed: 09/14/2023						
Diesel (C10-C28)	889	50.0	mg/kg	1000	ND	88.9	70-130	2.82	35	
Residual Range Organics (C28-C40)	878	200	"	1000	ND	87.8	70-130	0.553	35	
Surrogate: o-Terphenyl	48		"	49.8		95.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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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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 B3I1807 - EPA 3050B

Blank (B3I1807-BLK1)

Prepared: 09/18/2023 Analyzed: 09/20/2023

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

LCS (B3I1807-BS1)

Prepared: 09/18/2023 Analyzed: 09/20/2023

Arsenic	0.0471	0.000100	mg/kg	0.0500		94.2	80-120			
Barium	4.34	0.0100	"	5.00		86.8	80-120			
Cadmium	0.0444	0.000100	"	0.0500		88.8	80-120			
Copper	0.505	0.0100	"	0.500		101	80-120			
Lead	0.0438	0.0100	"	0.0500		87.6	80-120			
Nickel	0.0400	0.0100	"	0.0500		80.1	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.6	80-120			
Silver	0.0461	0.000100	"	0.0500		92.2	80-120			
Zinc	0.485	0.100	"	0.500		97.0	80-120			

Matrix Spike (B3I1807-MS1)

Source: Y309328-21

Prepared: 09/18/2023 Analyzed: 09/20/2023

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I1807 - EPA 3050B

Matrix Spike (B3I1807-MS1)		Source: Y309328-21			Prepared: 09/18/2023 Analyzed: 09/20/2023					
Arsenic	11.6	0.0924	mg/kg	4.62	5.93	123	75-125			
Barium	612	9.24	"	462	153	99.3	75-125			
Cadmium	4.81	0.0924	"	4.62	0.112	102	75-125			
Copper	60.1	9.24	"	46.2	15.5	96.4	75-125			
Lead	16.8	9.24	"	4.62	12.2	99.5	75-125			
Nickel	20.7	9.24	"	4.62	14.7	130	75-125			QM-07
Selenium	4.78	0.0924	"	4.62	0.0926	102	75-125			
Silver	4.84	0.0924	"	4.62	0.0137	104	75-125			
Zinc	104	92.4	"	46.2	58.9	97.4	75-125			

Matrix Spike Dup (B3I1807-MSD1)		Source: Y309328-21			Prepared: 09/18/2023 Analyzed: 09/20/2023					
Arsenic	9.95	0.0878	mg/kg	4.39	5.93	91.6	75-125	15.5	20	
Barium	557	8.78	"	439	153	92.1	75-125	9.37	20	
Cadmium	4.24	0.0878	"	4.39	0.112	94.1	75-125	12.4	20	
Copper	53.1	8.78	"	43.9	15.5	85.4	75-125	12.4	20	
Lead	12.6	8.78	"	4.39	12.2	7.96	75-125	28.9	20	QM-07
Nickel	18.3	8.78	"	4.39	14.7	83.8	75-125	12.0	20	
Selenium	4.89	0.0878	"	4.39	0.0926	109	75-125	2.20	20	
Silver	4.23	0.0878	"	4.39	0.0137	95.9	75-125	13.5	20	
Zinc	94.1	87.8	"	43.9	58.9	80.3	75-125	9.86	20	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3I1809 - EPA 3580

Blank (B3I1809-BLK1)

Prepared: 09/18/2023 Analyzed: 09/18/2023

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	220		ug/kg	200		109	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			

LCS (B3I1809-BS1)

Prepared: 09/18/2023 Analyzed: 09/18/2023

1-Methylnaphthalene	0.174	0.002	mg/kg	0.200		87.1	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200		91.2	70-130			
Acenaphthene	0.176	0.020	"	0.200		88.2	70-130			
Anthracene	0.172	0.020	"	0.200		86.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3I1809 - EPA 3580

LCS (B3I1809-BS1)

Prepared: 09/18/2023 Analyzed: 09/18/2023

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		89.9	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.5	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		104	70-130			
Chrysene	0.186	0.020	"	0.200		93.0	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.2	70-130			
Fluoranthene	0.225	0.020	"	0.200		113	70-130			
Fluorene	0.193	0.020	"	0.200		96.4	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		103	70-130			
Naphthalene	0.192	0.002	"	0.200		96.2	70-130			
Phenanthrene	0.207	0.020	"	0.200		104	70-130			
Pyrene	0.195	0.020	"	0.200		97.3	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		111	60-130			
Surrogate: Anthracene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			

Matrix Spike (B3I1809-MS1)

Source: Y309292-01

Prepared: 09/18/2023 Analyzed: 09/18/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	0.0005	104	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200	0.0008	99.9	70-130			
Acenaphthene	0.191	0.020	"	0.200	0.001	94.6	70-130			
Anthracene	0.198	0.020	"	0.200	ND	99.0	70-130			
Benzo (a) anthracene	0.179	0.005	"	0.200	0.0004	89.4	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200	0.002	93.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.002	87.7	70-130			
Benzo (g,h,i) perylene	0.162	0.020	"	0.200	0.0004	80.6	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3I1809 - EPA 3580

Matrix Spike (B3I1809-MS1)		Source: Y309292-01			Prepared: 09/18/2023 Analyzed: 09/18/2023					
Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	0.002	111	70-130			
Chrysene	0.199	0.020	"	0.200	0.0006	99.2	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.200	0.002	88.6	70-130			
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130			
Fluorene	0.178	0.020	"	0.200	0.002	88.0	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	0.002	106	70-130			
Naphthalene	0.193	0.002	"	0.200	ND	96.7	70-130			
Phenanthrene	0.187	0.020	"	0.200	0.0003	93.5	70-130			
Pyrene	0.197	0.020	"	0.200	0.0005	98.5	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			

Matrix Spike Dup (B3I1809-MSD1)		Source: Y309292-01			Prepared: 09/18/2023 Analyzed: 09/18/2023					
1-Methylnaphthalene	0.177	0.002	mg/kg	0.200	0.0005	88.3	70-130	16.0	20	
2-Methylnaphthalene	0.169	0.002	"	0.200	0.0008	84.3	70-130	16.8	20	
Acenaphthene	0.204	0.020	"	0.200	0.001	101	70-130	6.96	20	
Anthracene	0.170	0.020	"	0.200	ND	85.0	70-130	15.2	20	
Benzo (a) anthracene	0.198	0.005	"	0.200	0.0004	98.9	70-130	10.1	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	0.002	93.4	70-130	0.161	20	
Benzo (b) fluoranthene	0.180	0.020	"	0.200	0.002	88.9	70-130	1.34	20	
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	0.0004	100	70-130	21.4	20	QR-02
Benzo (k) fluoranthene	0.204	0.020	"	0.200	0.002	101	70-130	8.99	20	
Chrysene	0.203	0.020	"	0.200	0.0006	101	70-130	1.79	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.002	98.3	70-130	10.3	20	
Fluoranthene	0.213	0.020	"	0.200	ND	106	70-130	1.54	20	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3I1809 - EPA 3580

Matrix Spike Dup (B3I1809-MSD1)	Source: Y309292-01		Prepared: 09/18/2023 Analyzed: 09/18/2023							
Fluorene	0.211	0.020	mg/kg	0.200	0.002	105	70-130	17.3	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	0.002	92.1	70-130	13.9	20	
Naphthalene	0.194	0.002	"	0.200	ND	97.2	70-130	0.438	20	
Phenanthrene	0.193	0.020	"	0.200	0.0003	96.4	70-130	3.06	20	
Pyrene	0.223	0.020	"	0.200	0.0005	111	70-130	12.4	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0902 - Saturated Paste Metals

Blank (B3I0902-BLK1)

Prepared: 09/09/2023 Analyzed: 09/11/2023

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 (B3I0902-DUP1)

Source: Y309070-01

Prepared: 09/09/2023 Analyzed: 09/11/2023

Calcium PPM	30.5	10.0	mg/L		33.0			7.84	50	
SAR	ND	0.0100	SAR		0.152				200	
Magnesium PPM	8.26	10.0	mg/L		8.71			5.30	50	
Sodium PPM	3.79	10.0	"		3.81			0.526	50	

Batch B3I1111 - DTPA Sorbitol Preparation

Blank (B3I1111-BLK1)

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I1111-DUP1)

Source: Y309097-04

Prepared: 09/11/2023 Analyzed: 09/12/2023

Boron	0.177	0.0997	mg/L		0.188			6.40	50	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3I0905 - Saturated Paste pH/EC

Blank (B3I0905-BLK1)

Prepared: 09/09/2023 Analyzed: 09/10/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I0905-DUP1)

Source: Y309070-01

Prepared: 09/09/2023 Analyzed: 09/10/2023

Specific Conductance (EC)	0.284	0.00500	mmhos/cm		0.273		3.80	25	
pH	8.09		pH Units		8.15		0.739	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

**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 L705518 -										
DUP (L 91751-DUP)		Source: 91751			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 91751-MS)		Source: 91751			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	35.4	2.54	mg/Kg	40.7	<1.24	87	75-125			
LCS (LCS)					Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	7.24	0.5	mg/Kg	8		91	75-125			
LRB (LRB)					Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L705517 -

DUP (L 91700-DUP)		Source: 91700			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	ND	0.509	mg/Kg		<0.509		-	0	20	
MS (L 91700-MS)		Source: 91700			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	36	2.93	mg/Kg	40.4	<1.43	89	75-125			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



November 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - Skyfall 2-5

Project Number - [none]

Attached are your analytical results for Murfin - Skyfall 2-5 received by Origins Laboratory, Inc. October 26, 2023. This project is associated with Origins project number Y310698-01.

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



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B02@9'	Y310698-01	Soil	October 25, 2023 14:46	10/26/2023 10:10
WH-N02@8'	Y310698-02	Soil	October 25, 2023 14:44	10/26/2023 10:10
WH-E02@8'	Y310698-03	Soil	October 25, 2023 14:42	10/26/2023 10:10
WH-S02@8'	Y310698-04	Soil	October 25, 2023 14:40	10/26/2023 10:10
WH-W02@8'	Y310698-05	Soil	October 25, 2023 14:38	10/26/2023 10:10

A Nickel rerun was requested for WH-S02@8' per Allie's email on 11/07/2023. There was contamination in the original prep, the original data has been removed and only the reruns have been included in the supplementary report. JAB

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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

Sample Receipt Checklist

Origins Work Order: 4310698 Client: Eagle
 Client Project ID: Skyfall 2-5

Checklist Completed by: EHS Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 10/26/13 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.0 °C 1 °C 1 °C 1 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) [Signature] Date/Time Reviewed 10/27/13

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B02@9'
10/25/2023 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 63.7 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
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Surrogate: 1,2-Dichloroethane-d4 126 % 70-130 " " "
 Surrogate: Toluene-d8 96.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	Windo	10/26/2023	11/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 99.6 % 60-130 " " "
 Surrogate: Anthracene-d10 102 % 60-130 " " "
 Surrogate: Pyrene-d10 91.0 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B02@9'

10/25/2023 2:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y310698-01 (Soil)**

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	101 %	60-130			B3J26 41		10/26/2023	11/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.97	0.0879	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Nickel	15.3	8.79	"	"	"	CIH	"	"	
Selenium	0.150	0.0879	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N02@8'

10/25/2023 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	71.6	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	
Residual Range Organics (C28-C40)	113	100	"	"	"	ZZZ	"	"	

Surrogate: *o*-Terphenyl 127 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
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Surrogate: 1,2-Dichloroethane-d4 130 % 70-130 " " "

Surrogate: Toluene-d8 94.1 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	Windo	10/26/2023	11/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 100 % 60-130 " " "

Surrogate: Anthracene-d10 98.8 % 60-130 " " "

Surrogate: Pyrene-d10 90.8 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N02@8'

10/25/2023 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	103 %	60-130			B3J26 41		10/26/2023	11/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.87	0.0926	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Nickel	15.0	9.26	"	"	"	CIH	"	"	
Selenium	0.159	0.0926	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E02@8'
10/25/2023 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 98.4 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
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Surrogate: 1,2-Dichloroethane-d4 128 % 70-130 " " "
 Surrogate: Toluene-d8 93.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	Windo	10/26/2023	11/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 99.9 % 60-130 " " "
 Surrogate: Anthracene-d10 99.8 % 60-130 " " "
 Surrogate: Pyrene-d10 81.7 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E02@8'

10/25/2023 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-03 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130			B3J26 41		10/26/2023	11/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.69	0.0915	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Nickel	15.1	9.15	"	"	"	CIH	"	"	
Selenium	0.197	0.0915	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S02@8'
10/25/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 87.4 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
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Surrogate: 1,2-Dichloroethane-d4 130 % 70-130 " " "
 Surrogate: Toluene-d8 94.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	Windo	10/26/2023	11/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 100 % 60-130 " " "
 Surrogate: Anthracene-d10 101 % 60-130 " " "
 Surrogate: Pyrene-d10 84.3 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S02@8'

10/25/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.0 %	60-130			B3J26 41		10/26/2023	11/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	6.32	0.0916	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Selenium	0.141	0.0916	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

WH-S02@8'

10/25/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-04RE1 (Soil)

Table 915 metals by EPA 6020B

Nickel	12.6	9.11	mg/kg	10	B3K1029	CIH	11/10/2023	11/14/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

WH-S02@8'

10/25/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-04RE2 (Soil)

Table 915 metals by EPA 6020B

Nickel	12.8	8.41	mg/kg	10	B3K1029	CIH	11/10/2023	11/14/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W02@8'
10/25/2023 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 87.4 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
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Surrogate: 1,2-Dichloroethane-d4 132 % 70-130 " " " S-GC
 Surrogate: Toluene-d8 94.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	Windo	10/26/2023	11/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 98.8 % 60-130 " " "
 Surrogate: Anthracene-d10 96.3 % 60-130 " " "
 Surrogate: Pyrene-d10 86.4 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W02@8'

10/25/2023 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310698-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	103 %	60-130			B3J26 41		10/26/2023	11/03/2023	
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Table 915 metals by EPA 6020B

Arsenic	5.68	0.0914	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Nickel	15.3	9.14	"	"	"	CIH	"	"	
Selenium	0.133	0.0914	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B										
Blank (B3J2701-BLK1)										
					Prepared: 10/27/2023 Analyzed: 10/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.8	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B

LCS (B3J2701-BS1)

Prepared: 10/27/2023 Analyzed: 10/31/2023

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B

Matrix Spike (B3J2701-MS1)	Source: Y310693-01			Prepared: 10/27/2023 Analyzed: 10/31/2023						
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B										
Matrix Spike Dup (B3J2701-MSD1)					Source: Y310693-01					Prepared: 10/27/2023 Analyzed: 10/31/2023
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	8.40	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130	7.56	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Blank (B3J2705-BLK1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

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	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.2		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

LCS (B3J2705-BS1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Matrix Spike (B3J2705-MS1)	Source: Y310695-01			Prepared: 10/27/2023 Analyzed: 10/27/2023						
1,2,4-Trimethylbenzene	0.0436	0.00200	mg/kg	0.100	ND	43.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0435	0.00200	"	0.100	ND	43.5	70-130			QM-07
Benzene	0.0529	0.00200	"	0.100	ND	52.9	70-130			QM-07
Ethylbenzene	0.0463	0.00200	"	0.100	ND	46.3	70-130			QM-07
Naphthalene	0.0391	0.00380	"	0.100	0.00102	38.0	70-130			QM-07
Toluene	0.0474	0.00200	"	0.100	ND	47.4	70-130			QM-07
o-Xylene	0.0486	0.00200	"	0.100	ND	48.6	70-130			QM-07
m,p-Xylene	0.0945	0.00400	"	0.200	ND	47.2	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Matrix Spike Dup (B3J2705-MSD1)	Source: Y310695-01			Prepared: 10/27/2023 Analyzed: 10/27/2023						
1,2,4-Trimethylbenzene	0.0788	0.00200	mg/kg	0.100	ND	78.8	70-130	57.5	20	QR-03
1,3,5-Trimethylbenzene	0.0790	0.00200	"	0.100	ND	79.0	70-130	58.0	20	QR-03
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	47.9	20	QR-03
Ethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	49.7	20	QR-03
Naphthalene	0.0774	0.00380	"	0.100	0.00102	76.3	70-130	65.8	20	QR-03
Toluene	0.0774	0.00200	"	0.100	ND	77.4	70-130	48.1	20	QR-03
o-Xylene	0.0826	0.00200	"	0.100	ND	82.6	70-130	51.9	20	QR-03
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.3	70-130	50.7	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2628 - EPA 3050B

Blank (B3J2628-BLK1)

Prepared: 10/26/2023 Analyzed: 10/30/2023

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

LCS (B3J2628-BS1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	0.0545	0.000100	mg/kg	0.0500		109	80-120			
Barium	5.07	0.0100	"	5.00		101	80-120			
Cadmium	0.0530	0.000100	"	0.0500		106	80-120			
Copper	0.503	0.0100	"	0.500		101	80-120			
Lead	0.0514	0.0100	"	0.0500		103	80-120			
Nickel	0.0491	0.0100	"	0.0500		98.2	80-120			
Selenium	0.0451	0.000100	"	0.0500		90.2	80-120			
Silver	0.0540	0.000100	"	0.0500		108	80-120			
Zinc	0.474	0.100	"	0.500		94.8	80-120			

Matrix Spike (B3J2628-MS1)

Source: Y310698-01

Prepared: 10/26/2023 Analyzed: 10/27/2023

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2628 - EPA 3050B

Matrix Spike (B3J2628-MS1)

Source: Y310698-01

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	10.4	0.0887	mg/kg	4.44	5.97	101	75-125			
Barium	673	8.87	"	444	263	92.3	75-125			
Cadmium	4.84	0.0887	"	4.44	0.251	103	75-125			
Copper	57.5	8.87	"	44.4	12.8	101	75-125			
Lead	16.0	8.87	"	4.44	11.7	96.5	75-125			
Nickel	19.8	8.87	"	4.44	15.3	102	75-125			
Selenium	3.90	0.0887	"	4.44	0.150	84.4	75-125			
Silver	4.65	0.0887	"	4.44	0.0518	104	75-125			
Zinc	97.8	88.7	"	44.4	54.7	96.9	75-125			

Matrix Spike Dup (B3J2628-MSD1)

Source: Y310698-01

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	10.6	0.0908	mg/kg	4.54	5.97	101	75-125	1.23	20	
Barium	674	9.08	"	454	263	90.5	75-125	0.227	20	
Cadmium	4.95	0.0908	"	4.54	0.251	104	75-125	2.33	20	
Copper	59.5	9.08	"	45.4	12.8	103	75-125	3.45	20	
Lead	16.5	9.08	"	4.54	11.7	106	75-125	3.39	20	
Nickel	20.5	9.08	"	4.54	15.3	113	75-125	3.12	20	
Selenium	3.95	0.0908	"	4.54	0.150	83.6	75-125	1.28	20	
Silver	4.76	0.0908	"	4.54	0.0518	104	75-125	2.30	20	
Zinc	102	90.8	"	45.4	54.7	104	75-125	4.32	20	

Batch B3K1029 - EPA 3050B

Blank (B3K1029-BLK1)

Prepared: 11/10/2023 Analyzed: 11/14/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3K1029 - EPA 3050B

Blank (B3K1029-BLK1)

Prepared: 11/10/2023 Analyzed: 11/14/2023

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

LCS (B3K1029-BS1)

Prepared: 11/10/2023 Analyzed: 11/14/2023

Arsenic	0.0497	0.000100	mg/kg	0.0500		99.5	80-120			
Barium	5.25	0.0100	"	5.00		105	80-120			
Cadmium	0.0513	0.000100	"	0.0500		103	80-120			
Copper	0.537	0.0100	"	0.500		107	80-120			
Lead	0.0501	0.0100	"	0.0500		100	80-120			
Nickel	0.0484	0.0100	"	0.0500		96.8	80-120			
Selenium	0.0500	0.000100	"	0.0500		100	80-120			
Silver	0.0456	0.000100	"	0.0500		91.2	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3K1029-MS1)

Source: Y310698-04RE1

Prepared: 11/10/2023 Analyzed: 11/14/2023

Arsenic	10.1	0.0849	mg/kg	4.25	4.69	128	75-125			QM-07
Barium	677	8.49	"	425	230	105	75-125			
Cadmium	4.72	0.0849	"	4.25	0.258	105	75-125			
Copper	54.4	8.49	"	42.5	12.4	98.8	75-125			
Lead	16.8	8.49	"	4.25	11.5	125	75-125			
Nickel	18.0	8.49	"	4.25	12.6	127	75-125			QM-07
Selenium	4.32	0.0849	"	4.25	0.176	97.6	75-125			
Silver	4.33	0.0849	"	4.25	0.0446	101	75-125			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3K1029 - EPA 3050B										
Matrix Spike (B3K1029-MS1)			Source: Y310698-04RE1			Prepared: 11/10/2023 Analyzed: 11/14/2023				
Zinc	91.9	84.9	mg/kg	42.5	43.9	113	75-125			
Matrix Spike Dup (B3K1029-MSD1)			Source: Y310698-04RE1			Prepared: 11/10/2023 Analyzed: 11/14/2023				
Arsenic	10.2	0.100	mg/kg	5.00	4.69	109	75-125	0.166	20	
Barium	768	10.0	"	500	230	108	75-125	12.7	20	
Cadmium	5.60	0.100	"	5.00	0.258	107	75-125	17.1	20	
Copper	62.9	10.0	"	50.0	12.4	101	75-125	14.5	20	
Lead	16.7	10.0	"	5.00	11.5	105	75-125	0.332	20	
Nickel	17.7	10.0	"	5.00	12.6	101	75-125	2.02	20	
Selenium	4.96	0.100	"	5.00	0.176	95.7	75-125	13.8	20	
Silver	4.70	0.100	"	5.00	0.0446	93.2	75-125	8.22	20	
Zinc	94.7	100	"	50.0	43.9	102	75-125	2.96	20	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3J2641 - EPA 3580

Blank (B3J2641-BLK1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

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	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	170		"	200		83.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

LCS (B3J2641-BS1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.8	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.4	70-130			
Acenaphthene	0.184	0.020	"	0.200		91.9	70-130			
Anthracene	0.171	0.020	"	0.200		85.3	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3J2641 - EPA 3580

LCS (B3J2641-BS1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

Benzo (a) anthracene	0.178	0.005	mg/kg	0.200		88.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200		90.7	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (k) fluoranthene	0.165	0.020	"	0.200		82.4	70-130			
Chrysene	0.188	0.020	"	0.200		94.0	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.8	70-130			
Fluoranthene	0.208	0.020	"	0.200		104	70-130			
Fluorene	0.187	0.020	"	0.200		93.7	70-130			
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200		89.6	70-130			
Naphthalene	0.188	0.002	"	0.200		93.8	70-130			
Phenanthrene	0.176	0.020	"	0.200		88.2	70-130			
Pyrene	0.152	0.020	"	0.200		76.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	160		"	200		80.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B3J2641-MS1)

Source: Y310640-09

Prepared: 10/26/2023 Analyzed: 11/02/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	0.036	91.1	70-130			
2-Methylnaphthalene	0.230	0.002	"	0.200	0.047	91.1	70-130			
Acenaphthene	0.196	0.020	"	0.200	0.017	89.3	70-130			
Anthracene	0.167	0.020	"	0.200	0.003	82.0	70-130			
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	92.0	70-130			
Benzo (a) pyrene	0.182	0.020	"	0.200	ND	91.1	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.1	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.6	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3J2641 - EPA 3580

Matrix Spike (B3J2641-MS1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 11/02/2023					
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	84.9	70-130			
Chrysene	0.181	0.020	"	0.200	ND	90.4	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	97.8	70-130			
Fluoranthene	0.195	0.020	"	0.200	0.001	97.2	70-130			
Fluorene	0.199	0.020	"	0.200	0.019	89.9	70-130			
Indeno (1,2,3-cd) pyrene	0.166	0.020	"	0.200	ND	83.1	70-130			
Naphthalene	0.192	0.002	"	0.200	0.004	94.1	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.029	80.7	70-130			
Pyrene	0.162	0.020	"	0.200	0.003	79.5	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	170		"	200		84.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3J2641-MSD1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 11/02/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	0.036	93.7	70-130	2.36	20	
2-Methylnaphthalene	0.239	0.002	"	0.200	0.047	96.0	70-130	4.18	20	
Acenaphthene	0.204	0.020	"	0.200	0.017	93.5	70-130	4.16	20	
Anthracene	0.173	0.020	"	0.200	0.003	85.0	70-130	3.54	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	ND	92.7	70-130	0.712	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130	1.48	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	88.9	70-130	0.150	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.5	70-130	0.145	20	
Benzo (k) fluoranthene	0.165	0.020	"	0.200	ND	82.5	70-130	2.82	20	
Chrysene	0.175	0.020	"	0.200	ND	87.5	70-130	3.29	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.7	70-130	1.09	20	
Fluoranthene	0.183	0.020	"	0.200	0.001	91.2	70-130	6.37	20	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3J2641 - EPA 3580

Matrix Spike Dup (B3J2641-MSD1)	Source: Y310640-09		Prepared: 10/26/2023 Analyzed: 11/02/2023							
Fluorene	0.206	0.020	mg/kg	0.200	0.019	93.3	70-130	3.36	20	
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200	ND	88.7	70-130	6.43	20	
Naphthalene	0.190	0.002	"	0.200	0.004	93.0	70-130	1.19	20	
Phenanthrene	0.205	0.020	"	0.200	0.029	87.8	70-130	7.19	20	
Pyrene	0.162	0.020	"	0.200	0.003	79.3	70-130	0.323	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.4	60-130			
Surrogate: Pyrene-d10	170		"	200		83.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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 at a wet weight basis.

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November 07, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - Skyfall 2-5

Project Number - [none]

Attached are your analytical results for Murfin - Skyfall 2-5 received by Origins Laboratory, Inc. October 26, 2023. This project is associated with Origins project number Y310699-01.

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.

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Eagle Environmental Consulting, LLC
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Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B02@4'	Y310699-01	Soil	October 25, 2023 15:36	10/26/2023 10:10
SEP-B01@4'	Y310699-02	Soil	October 25, 2023 15:34	10/26/2023 10:10
AST-B01@3"	Y310699-03	Soil	October 25, 2023 15:56	10/26/2023 10:10
AST-B03@3"	Y310699-04	Soil	October 25, 2023 16:00	10/26/2023 10:10
AST-B05@3"	Y310699-05	Soil	October 25, 2023 16:04	10/26/2023 10:10
AST-B07@3"	Y310699-06	Soil	October 25, 2023 16:08	10/26/2023 10:10

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310699 Client: Eagle
 Client Project ID: Skyfall 2-5
 Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 10/26/23 (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 / 1.0 °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⁾ ?	<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) [Signature] Date/Time Reviewed 10/27/23

Origins Laboratory, Inc.


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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

FL-B02@4'

10/25/2023 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.353	0.0981	mg/L	1	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	90.2 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

FL-B02@4'

10/25/2023 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.30	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023
Magnesium	2.80	0.823	"	"	"	KAP	"	"
Sodium	0.985	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.90		pH Units	1	B3J3014	HJD	10/30/2023	11/01/2023
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SAR by 20B Saturated Paste

SAR	0.490	0.0100	SAR	1	B3J3008	KAP	10/30/2023	11/01/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.07	0.00500	mmhos/cm	1	B3J3014	HJD	10/30/2023	11/01/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

SEP-B01@4'
 10/25/2023 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.371	0.0988	mg/L	1	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	79.8 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

SEP-B01@4'

10/25/2023 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y310699-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.64	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023	
Magnesium	2.09	0.823	"	"	"	KAP	"	"	
Sodium	0.795	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.85		pH Units	1	B3J3014	HJD	10/30/2023	11/01/2023	
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SAR by 20B Saturated Paste

SAR	0.469	0.0100	SAR	1	B3J3008	KAP	10/30/2023	11/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.800	0.00500	mmhos/cm	1	B3J3014	HJD	10/30/2023	11/01/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B01@3"

10/25/2023 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.00	mg/L	10	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 76.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 129 % 70-130 " " "
 Surrogate: Toluene-d8 95.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B01@3"

10/25/2023 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.88	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023	
Magnesium	2.44	0.823	"	"	"	KAP	"	"	
Sodium	2.19	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	6.10		pH Units	1	B3J3014	HJD	10/30/2023	11/01/2023	
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SAR by 20B Saturated Paste

SAR	1.15	0.0100	SAR	1	B3J3008	KAP	10/30/2023	11/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.30	0.00500	mmhos/cm	1	B3J3014	HJD	10/30/2023	11/01/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B03@3"

10/25/2023 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 78.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " "
 Surrogate: Toluene-d8 96.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B03@3"

10/25/2023 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.50	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023	
Magnesium	2.36	0.823	"	"	"	KAP	"	"	
Sodium	3.63	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	6.63		pH Units	1	B3J3014	HJD	10/30/2023	11/01/2023	
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SAR by 20B Saturated Paste

SAR	1.83	0.0100	SAR	1	B3J3008	KAP	10/30/2023	11/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.50	0.00500	mmhos/cm	1	B3J3014	HJD	10/30/2023	11/01/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B05@3"

10/25/2023 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.998	mg/L	10	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 77.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 124 % 70-130 " " "
 Surrogate: Toluene-d8 95.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B05@3"

10/25/2023 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	12.4	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023	
Magnesium	4.82	0.823	"	"	"	KAP	"	"	
Sodium	12.5	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.50		pH Units	1	B3J3014	HJD	10/30/2023	11/01/2023	
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SAR by 20B Saturated Paste

SAR	4.27	0.0100	SAR	1	B3J3008	KAP	10/30/2023	11/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.50	0.00500	mmhos/cm	1	B3J3014	HJD	10/30/2023	11/01/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B07@3"

10/25/2023 4:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.582	0.101	mg/L	1	B3J3013	KAP	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2701	ZZZ	10/27/2023	11/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2705	HK	10/27/2023	10/27/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

AST-B07@3"

10/25/2023 4:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310699-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	11.9	0.499	meq/L	10	[CALC]	KAP	10/30/2023	11/01/2023	
Magnesium	4.57	0.823	"	"	"	KAP	"	"	
Sodium	7.59	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.39		pH Units	1	B3J3015	HJD	10/30/2023	11/01/2023	
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SAR by 20B Saturated Paste

SAR	2.65	0.0100	SAR	1	B3J3009	KAP	10/30/2023	11/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79	0.00500	mmhos/cm	1	B3J3015	HJD	10/30/2023	11/01/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B										
Blank (B3J2701-BLK1)										
					Prepared: 10/27/2023 Analyzed: 10/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.8	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B

LCS (B3J2701-BS1)

Prepared: 10/27/2023 Analyzed: 10/31/2023

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B

Matrix Spike (B3J2701-MS1)	Source: Y310693-01			Prepared: 10/27/2023 Analyzed: 10/31/2023						
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2701 - EPA 3550B										
Matrix Spike Dup (B3J2701-MSD1)					Source: Y310693-01					Prepared: 10/27/2023 Analyzed: 10/31/2023
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	8.40	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130	7.56	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Blank (B3J2705-BLK1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

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	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.2		70-130			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

LCS (B3J2705-BS1)

Prepared: 10/27/2023 Analyzed: 10/27/2023

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Matrix Spike (B3J2705-MS1)	Source: Y310695-01			Prepared: 10/27/2023 Analyzed: 10/27/2023						
1,2,4-Trimethylbenzene	0.0436	0.00200	mg/kg	0.100	ND	43.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0435	0.00200	"	0.100	ND	43.5	70-130			QM-07
Benzene	0.0529	0.00200	"	0.100	ND	52.9	70-130			QM-07
Ethylbenzene	0.0463	0.00200	"	0.100	ND	46.3	70-130			QM-07
Naphthalene	0.0391	0.00380	"	0.100	0.00102	38.0	70-130			QM-07
Toluene	0.0474	0.00200	"	0.100	ND	47.4	70-130			QM-07
o-Xylene	0.0486	0.00200	"	0.100	ND	48.6	70-130			QM-07
m,p-Xylene	0.0945	0.00400	"	0.200	ND	47.2	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J2705 - EPA 5030 (soil)

Matrix Spike Dup (B3J2705-MSD1)	Source: Y310695-01			Prepared: 10/27/2023 Analyzed: 10/27/2023						
1,2,4-Trimethylbenzene	0.0788	0.00200	mg/kg	0.100	ND	78.8	70-130	57.5	20	QR-03
1,3,5-Trimethylbenzene	0.0790	0.00200	"	0.100	ND	79.0	70-130	58.0	20	QR-03
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	47.9	20	QR-03
Ethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	49.7	20	QR-03
Naphthalene	0.0774	0.00380	"	0.100	0.00102	76.3	70-130	65.8	20	QR-03
Toluene	0.0774	0.00200	"	0.100	ND	77.4	70-130	48.1	20	QR-03
o-Xylene	0.0826	0.00200	"	0.100	ND	82.6	70-130	51.9	20	QR-03
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.3	70-130	50.7	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J3008 - Saturated Paste Metals

Blank (B3J3008-BLK1)

Prepared: 10/30/2023 Analyzed: 11/01/2023

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 (B3J3008-DUP1)

Source: Y310644-05

Prepared: 10/30/2023 Analyzed: 11/01/2023

Calcium PPM	355	10.0	mg/L		212			50.2	50	QR-DUP
SAR	ND	0.0100	SAR		5.46				200	
Magnesium PPM	363	10.0	mg/L		197			59.1	50	QR-DUP
Sodium PPM	836	10.0	"		460			58.0	50	QR-DUP

Batch B3J3009 - Saturated Paste Metals

Blank (B3J3009-BLK1)

Prepared: 10/30/2023 Analyzed: 11/01/2023

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

Duplicate (B3J3009-DUP1)

Source: Y310699-06

Prepared: 10/30/2023 Analyzed: 11/01/2023

Calcium PPM	211	10.0	mg/L		238			11.8	50	
SAR	ND	0.0100	SAR		2.65				200	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J3009 - Saturated Paste Metals										
Duplicate (B3J3009-DUP1)		Source: Y310699-06			Prepared: 10/30/2023 Analyzed: 11/01/2023					
Magnesium PPM	48.4	10.0	mg/L		55.6			13.9	50	
Sodium PPM	203	10.0	"		175			15.3	50	
Batch B3J3013 - DTPA Sorbitol Preparation										
Blank (B3J3013-BLK1)					Prepared: 10/30/2023 Analyzed: 10/31/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3J3013-DUP1)		Source: Y310696-01			Prepared: 10/30/2023 Analyzed: 10/31/2023					
Boron	0.659	0.101	mg/L		0.608			7.97	50	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3J3014 - Saturated Paste pH/EC

Blank (B3J3014-BLK1)

Prepared: 10/30/2023 Analyzed: 11/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3J3014-DUP1)

Source: Y310644-05

Prepared: 10/30/2023 Analyzed: 11/01/2023

Specific Conductance (EC)	6.17	0.00500	mmhos/cm	3.94			44.0	25	QR-DUP
pH	7.71		pH Units	7.76			0.646	25	

Batch B3J3015 - Saturated Paste pH/EC

Blank (B3J3015-BLK1)

Prepared: 10/30/2023 Analyzed: 11/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3J3015-DUP1)

Source: Y310699-06

Prepared: 10/30/2023 Analyzed: 11/01/2023

pH	7.68		pH Units	7.39			3.85	25	
Specific Conductance (EC)	2.73	0.00500	mmhos/cm	2.79			1.88	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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 at a wet weight basis.

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, Project Manager

December 27, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - Skyfall 2-5

Project Number - [none]

Attached are your analytical results for Murfin - Skyfall 2-5 received by Origins Laboratory, Inc. December 01, 2023. This project is associated with Origins project number Y312030-01.

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



Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B03@12'	Y312030-01	Soil	December 1, 2023 11:19	12/01/2023 13:46
WH-N03@9'	Y312030-02	Soil	December 1, 2023 11:20	12/01/2023 13:46
WH-S03@9'	Y312030-03	Soil	December 1, 2023 11:22	12/01/2023 13:46
WH-E03@9'	Y312030-04	Soil	December 1, 2023 11:23	12/01/2023 13:46
WH-W03@9'	Y312030-05	Soil	December 1, 2023 11:24	12/01/2023 13:46
WH-BG03@10'	Y312030-06	Soil	December 1, 2023 11:25	12/01/2023 13:46
WH-BG04@10'	Y312030-07	Soil	December 1, 2023 11:26	12/01/2023 13:46

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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page | of |

ORIGINS
LABORATORY, INC

Client: Eagle Environmental (Murfin)

Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033

Telephone Number: 303-433-0477
 Email Address: dcoloccia@eagleenviro.com

U31203D

Project Manager: D. Coloccia

Project Name: Skyfall 2-5

Project Number: _____

Samples Collected By: AM

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative			Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	Canister #	Other		
WH-BP3E12	12/1/23	1119	3	X									X X X X X X	* METALS =
WH-NP3E9		1120												only barium,
WH-SP3E9		1122												cadmium, copper,
WH-EP3E9		1123												lead, nickel,
WH-NP3E9		1124												selenium arsenic
WH-BP3E10		1125	2											
WH-BP3E10		1126	2											
Relinquished By: <i>AM</i>	Date: 12/1/23	Time: 1346	Received By: EHS	Date: 12/1/23	Time: 1346	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:									

Temp Received: 5.7 Date Results Needed

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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

Sample Receipt Checklist

Origins Work Order: 4312030 Client: Eagle
 Client Project ID: Skyfall 2-5

Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 12/11/23 (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 15.7 °C 1 °C 1 °C (Describe) °C

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 ⁽¹⁾ ?	/			
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):				

⁽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: JB (Project Manager) Date/Time Reviewed: 12-11-23

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B03@12'

12/1/2023 11:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0520	12/05/2023	12/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	79.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B3L0620	12/06/2023	12/06/2023	U
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Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %		70-130			"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0132	12/01/2023	12/06/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B03@12'

12/1/2023 11:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %		60-130			B3L01 32	12/01/2023	12/06/2023	
Surrogate: Anthracene-d10	84.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

Total Metals by 6020B

Arsenic	5	0.855	2.5	mg/Kg	50	L721045	12/07/2023	12/20/2023	
Barium	332	0.042	0.25	"	5	"	"	12/13/2023	
Cadmium	0.275	0.026	0.25	"	"	"	"	"	
Copper	12.2	0.0805	0.25	"	"	"	"	"	
Lead	10.4	0.031	0.25	"	"	"	"	"	
Nickel	13.5	0.0635	0.25	"	"	"	"	"	
Selenium	1.59	1.03	2.5	"	50	"	"	12/20/2023	J

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N03@9'

12/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	46.7		25.0	mg/kg	1	B3L0520	12/05/2023	12/08/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.2 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B3L0620	12/06/2023	12/06/2023	U
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Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 88.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 124 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0132	12/01/2023	12/06/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N03@9'

12/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %		60-130			B3L01 32	12/01/2023	12/06/2023	
Surrogate: Anthracene-d10	84.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	111 %		60-130			"	"	"	

Total Metals by 6020B

Arsenic	4.61	0.855	2.5	mg/Kg	50	L721045	12/07/2023	12/20/2023	
Barium	232	0.042	0.25	"	5	"	"	12/13/2023	
Cadmium	0.247	0.026	0.25	"	"	"	"	"	J
Copper	12.3	0.0805	0.25	"	"	"	"	"	
Lead	9.54	0.031	0.25	"	"	"	"	"	
Nickel	13.1	0.0635	0.25	"	"	"	"	"	
Selenium	ND	1.03	2.5	"	50	"	"	12/20/2023	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S03@9'

12/1/2023 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0520	12/05/2023	12/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 74.4 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B3L0620	12/06/2023	12/06/2023	U
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Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
 Surrogate: Toluene-d8 89.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.008		0.002	mg/kg	1	B3L0132	12/01/2023	12/06/2023	
2-Methylnaphthalene	0.006		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S03@9'

12/1/2023 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %		60-130			B3L01 32	12/01/2023	12/06/2023	
Surrogate: Anthracene-d10	83.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

Total Metals by 6020B

Arsenic	4.38	0.855	2.5	mg/Kg	50	L721045	12/07/2023	12/20/2023	
Barium	214	0.042	0.25	"	5	"	"	12/13/2023	
Cadmium	0.224	0.026	0.25	"	"	"	"	"	J
Copper	11.8	0.0805	0.25	"	"	"	"	"	
Lead	9.39	0.031	0.25	"	"	"	"	"	
Nickel	12.6	0.0635	0.25	"	"	"	"	"	
Selenium	1.29	1.03	2.5	"	50	"	"	12/20/2023	J

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E03@9'

12/1/2023 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0520	12/05/2023	12/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	73.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B3L0620	12/06/2023	12/06/2023	U
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Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
Surrogate: Toluene-d8	124 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0132	12/01/2023	12/06/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E03@9'

12/1/2023 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-04 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %		60-130			B3L01 32	12/01/2023	12/06/2023	
Surrogate: Anthracene-d10	85.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

Total Metals by 6020B

Arsenic	4.44	0.855	2.5	mg/Kg	50	L721045	12/07/2023	12/20/2023	
Barium	241	0.042	0.25	"	5	"	"	12/13/2023	
Cadmium	0.221	0.026	0.25	"	"	"	"	"	J
Copper	12.1	0.0805	0.25	"	"	"	"	"	
Lead	9.36	0.031	0.25	"	"	"	"	"	
Nickel	12.8	0.0635	0.25	"	"	"	"	"	
Selenium	ND	1.03	2.5	"	50	"	"	12/20/2023	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W03@9'

12/1/2023 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312030-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0520	12/05/2023	12/08/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B3L0620	12/06/2023	12/06/2023	U
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Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	113 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002		0.002	mg/kg	1	B3L0132	12/01/2023	12/06/2023	
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W03@9'

12/1/2023 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312030-05 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	103 %		60-130			B3L01 32	12/01/2023	12/06/2023	
Surrogate: Anthracene-d10	83.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

Total Metals by 6020B

Arsenic	4.23	0.855	2.5	mg/Kg	50	L721045	12/07/2023	12/20/2023	
Barium	205	0.042	0.25	"	5	"	"	12/13/2023	
Cadmium	0.211	0.026	0.25	"	"	"	"	"	J
Copper	11	0.0805	0.25	"	"	"	"	"	
Lead	9.18	0.031	0.25	"	"	"	"	"	
Nickel	11.5	0.0635	0.25	"	"	"	"	"	
Selenium	1.15	1.03	2.5	"	50	"	"	12/20/2023	J

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG03@10'

12/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312030-06 (Soil)

Total Metals by 6020 B

Arsenic	4.27	0.0855	0.25	mg/Kg	5	L721046	12/07/2023	12/21/2023	
Barium	157	0.042	0.25	"	"	"	"	"	
Cadmium	0.215	0.026	0.25	"	"	"	"	"	J
Copper	11.8	0.0805	0.25	"	"	"	"	"	
Lead	9.06	0.031	0.25	"	"	"	"	"	
Nickel	14	0.0635	0.25	"	"	"	"	"	
Selenium	1.05	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-BG04@10'

12/1/2023 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312030-07 (Soil)

Total Metals by 6020 B

Arsenic	4.43	0.0855	0.25	mg/Kg	5	L721046	12/07/2023	12/21/2023	
Barium	163	0.042	0.25	"	"	"	"	"	
Cadmium	0.223	0.026	0.25	"	"	"	"	"	J
Copper	12.9	0.0805	0.25	"	"	"	"	"	
Lead	9.72	0.031	0.25	"	"	"	"	"	
Nickel	14.9	0.0635	0.25	"	"	"	"	"	
Selenium	1.17	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0520 - EPA 3550B										
Blank (B3L0520-BLK1)										
					Prepared: 12/05/2023 Analyzed: 12/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0520 - EPA 3550B

LCS (B3L0520-BS1)

Prepared: 12/05/2023 Analyzed: 12/08/2023

Diesel (C10-C28)	751	50.0	mg/kg	1000		75.1	70-130			
Residual Range Organics (C28-C40)	851	200	"	1000		85.1	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0520 - EPA 3550B

Matrix Spike (B3L0520-MS1)	Source: Y312030-01			Prepared: 12/05/2023 Analyzed: 12/08/2023						
Diesel (C10-C28)	780	50.0	mg/kg	1000	ND	78.0	70-130			
Residual Range Organics (C28-C40)	883	200	"	1000	ND	88.3	70-130			
Surrogate: o-Terphenyl	35		"	49.8		70.5	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0520 - EPA 3550B										
Matrix Spike Dup (B3L0520-MSD1)					Source: Y312030-01					Prepared: 12/05/2023 Analyzed: 12/08/2023
Diesel (C10-C28)	744	50.0	mg/kg	1000	ND	74.4	70-130	4.66	35	
Residual Range Organics (C28-C40)	859	200	"	1000	ND	85.9	70-130	2.69	35	
Surrogate: o-Terphenyl	36		"	49.8		72.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0620 - EPA 5030 (soil)

Blank (B3L0620-BLK1)

Prepared: 12/06/2023 Analyzed: 12/06/2023

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	0.12		"	0.125	99.3		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	84.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.4		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0620 - EPA 5030 (soil)

LCS (B3L0620-BS1)

Prepared: 12/06/2023 Analyzed: 12/06/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100		93.7	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.0933	0.00200	"	0.100		93.3	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0620 - EPA 5030 (soil)

Matrix Spike (B3L0620-MS1)	Source: Y312030-01			Prepared: 12/06/2023 Analyzed: 12/06/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Naphthalene	0.122	0.00380	"	0.100	0.00128	121	70-130			
Toluene	0.116	0.00200	"	0.100	ND	116	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		117	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B3L0620 - EPA 5030 (soil)

Matrix Spike Dup (B3L0620-MSD1)	Source: Y312030-01			Prepared: 12/06/2023 Analyzed: 12/06/2023						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	5.21	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	5.73	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	4.52	20	
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	7.29	20	
Naphthalene	0.102	0.00380	"	0.100	0.00128	100	70-130	18.5	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	1.84	20	
o-Xylene	0.0960	0.00200	"	0.100	ND	96.0	70-130	16.6	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	12.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.16		"	0.125		128	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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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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
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Batch B3L0132 - EPA 3580

Blank (B3L0132-BLK1)

Prepared: 12/01/2023 Analyzed: 12/06/2023

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	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	170		"	200		82.8	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3L0132 - EPA 3580

LCS (B3L0132-BS1)

Prepared: 12/01/2023 Analyzed: 12/06/2023

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		106	70-130			
2-Methylnaphthalene	0.213	0.002	"	0.200		107	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.171	0.020	"	0.200		85.4	70-130			
Benzo (a) anthracene	0.169	0.005	"	0.200		84.3	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.226	0.020	"	0.200		113	70-130			
Benzo (g,h,i) perylene	0.237	0.020	"	0.200		119	70-130			
Benzo (k) fluoranthene	0.216	0.020	"	0.200		108	70-130			
Chrysene	0.196	0.020	"	0.200		97.9	70-130			
Dibenz (a,h) anthracene	0.238	0.020	"	0.200		119	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.7	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200		116	70-130			
Naphthalene	0.214	0.002	"	0.200		107	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.4	70-130			
Pyrene	0.224	0.020	"	0.200		112	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	160		"	200		81.8	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike (B3L0132-MS1)

Source: Y311718-01

Prepared: 12/01/2023 Analyzed: 12/06/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130			
Anthracene	0.170	0.020	"	0.200	ND	85.2	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3L0132 - EPA 3580

Matrix Spike (B3L0132-MS1)		Source: Y311718-01			Prepared: 12/01/2023 Analyzed: 12/06/2023					
Benzo (a) anthracene	0.168	0.005	mg/kg	0.200	ND	83.9	70-130			
Benzo (a) pyrene	0.253	0.020	"	0.200	ND	127	70-130			
Benzo (b) fluoranthene	0.295	0.020	"	0.200	ND	147	70-130			QM-07
Benzo (g,h,i) perylene	0.290	0.020	"	0.200	ND	145	70-130			QM-07
Benzo (k) fluoranthene	0.263	0.020	"	0.200	ND	131	70-130			QM-07
Chrysene	0.195	0.020	"	0.200	ND	97.4	70-130			
Dibenz (a,h) anthracene	0.295	0.020	"	0.200	ND	148	70-130			QM-07
Fluoranthene	0.190	0.020	"	0.200	ND	95.0	70-130			
Fluorene	0.211	0.020	"	0.200	ND	106	70-130			
Indeno (1,2,3-cd) pyrene	0.275	0.020	"	0.200	ND	138	70-130			QM-07
Naphthalene	0.217	0.002	"	0.200	ND	108	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Pyrene	0.207	0.020	"	0.200	ND	104	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	160		"	200		81.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.9	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		123	60-130			

Matrix Spike Dup (B3L0132-MSD1)		Source: Y311718-01			Prepared: 12/01/2023 Analyzed: 12/06/2023					
1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	ND	107	70-130	0.415	20	
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130	0.0141	20	
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130	0.503	20	
Anthracene	0.169	0.020	"	0.200	ND	84.5	70-130	0.724	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	ND	87.4	70-130	4.10	20	
Benzo (a) pyrene	0.223	0.020	"	0.200	ND	111	70-130	12.8	20	
Benzo (b) fluoranthene	0.254	0.020	"	0.200	ND	127	70-130	15.0	20	
Benzo (g,h,i) perylene	0.265	0.020	"	0.200	ND	132	70-130	9.02	20	QM-07

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B3L0132 - EPA 3580

Matrix Spike Dup (B3L0132-MSD1)	Source: Y311718-01			Prepared: 12/01/2023 Analyzed: 12/06/2023						
Benzo (k) fluoranthene	0.255	0.020	mg/kg	0.200	ND	128	70-130	2.86	20	
Chrysene	0.203	0.020	"	0.200	ND	101	70-130	3.90	20	
Dibenz (a,h) anthracene	0.257	0.020	"	0.200	ND	128	70-130	14.0	20	
Fluoranthene	0.196	0.020	"	0.200	ND	98.2	70-130	3.35	20	
Fluorene	0.209	0.020	"	0.200	ND	105	70-130	0.987	20	
Indeno (1,2,3-cd) pyrene	0.244	0.020	"	0.200	ND	122	70-130	12.2	20	
Naphthalene	0.220	0.002	"	0.200	ND	110	70-130	1.33	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.2	70-130	1.90	20	
Pyrene	0.207	0.020	"	0.200	ND	104	70-130	0.191	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		83.1	60-130			
Surrogate: Pyrene-d10	190		"	200		97.1	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Total Metals by 6020 B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721046 - 3050B

MSD (L 82122-MSD-L721046)		Source: 82122			Prepared: 12/07/2023 Analyzed: 12/21/2023					
Selenium	4.54	0.25	mg/Kg	4.63	0.544	86	75-125	6.8	80	
Nickel	5.68	0.25	"	2.31	3.44	97	75-125	4.1	80	
Lead	5.05	0.25	"	2.31	3.12	83	75-125	10.8	80	
Copper	11.2	0.25	"	2.31	3.41	337	75-125	65.4	80	*
Cadmium	0.484	0.25	"	0.463	0.0531	93	75-125	5.2	80	
Arsenic	3.15	0.25	"	2.31	0.981	94	75-125	4.3	80	
Barium	42.9	0.25	"	4.63	38	106	75-125	0.4	80	
MS (L 82122-MS-L721046)		Source: 82122			Prepared: 12/07/2023 Analyzed: 12/21/2023					
Barium	43.1	0.25	mg/Kg	4.76	38	107	75-125			
Nickel	5.92	0.25	"	2.38	3.44	104	75-125			
Arsenic	3.29	0.25	"	2.38	0.981	97	75-125			
Cadmium	0.51	0.25	"	0.476	0.0531	96	75-125			
Lead	5.63	0.25	"	2.38	3.12	105	75-125			
Selenium	4.86	0.25	"	4.76	0.544	91	75-125			
Copper	5.68	0.25	"	2.38	3.41	95	75-125			
LCS (LCS-L721046)		Prepared: 12/07/2023 Analyzed: 12/21/2023								
Arsenic	2.43	0.25	mg/Kg	2.5		97	80-120			
Barium	4.88	0.25	"	5		98	80-120			
Cadmium	0.503	0.25	"	0.5		101	80-120			
Copper	2.75	0.25	"	2.5		110	80-120			
Lead	2.84	0.25	"	2.5		114	80-120			
Nickel	2.74	0.25	"	2.5		110	80-120			
Selenium	4.68	0.25	"	5		94	80-120			
LRB (LRB-L721046)		Prepared: 12/07/2023 Analyzed: 12/21/2023								

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Total Metals by 6020 B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721046 - 3050B

LRB (LRB-L721046)

Prepared: 12/07/2023 Analyzed: 12/21/2023

Copper	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721045 - 3050B

MSD (L 82086-MSD-L721045)		Source: Y312030-05			Prepared: 12/07/2023 Analyzed: 12/20/2023					
Arsenic	7.06	2.5	mg/Kg	2.32	4.23	122	75-125	7.3	80	
Barium	251	0.25	"	4.63	205	993	75-125	13.3	80	*
Cadmium	0.7	0.25	"	0.463	0.211	106	75-125	5.5	80	
Copper	14.2	0.25	"	2.32	11	138	75-125	1.3	80	*
Lead	11.3	0.25	"	2.32	9.18	91	75-125	3.4	80	
Nickel	15.1	0.25	"	2.32	11.5	155	75-125	0.6	80	*
Selenium	4.8	2.5	"	4.63	1.15	79	75-125	25.7	80	
MS (L 82086-MS-L721045)		Source: Y312030-05			Prepared: 12/07/2023 Analyzed: 12/20/2023					
Arsenic	6.56	2.5	mg/Kg	2.47	4.23	94	75-125			
Nickel	15.2	0.25	"	2.47	11.5	150	75-125			*
Lead	11.7	0.25	"	2.47	9.18	102	75-125			
Copper	14.4	0.25	"	2.47	11	138	75-125			*
Barium	287	0.25	"	4.94	205	NR	75-125			*
Selenium	6.22	2.5	"	4.94	1.15	103	75-125			
Cadmium	0.74	0.25	"	0.494	0.211	107	75-125			
LCS (LCS-L721045)		Prepared: 12/07/2023 Analyzed: 12/13/2023								
Selenium	4.76	0.25	mg/Kg	5		95	80-120			
Nickel	2.49	0.25	"	2.5		100	80-120			
Lead	2.51	0.25	"	2.5		100	80-120			
Copper	2.63	0.25	"	2.5		105	80-120			
Cadmium	0.498	0.25	"	0.5		100	80-120			
Arsenic	2.52	0.25	"	2.5		101	80-120			
Barium	4.5	0.25	"	5		90	80-120			
LRB (LRB-L721045)		Prepared: 12/07/2023 Analyzed: 12/13/2023								

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721045 - 3050B

LRB (LRB-L721045)

Prepared: 12/07/2023 Analyzed: 12/13/2023

Arsenic	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.



March 11, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - Skyfall 2-5

Project Number - [none]

Attached are your analytical results for Murfin - Skyfall 2-5 received by Origins Laboratory, Inc. February 28, 2024. This project is associated with Origins project number Y402696-01.

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



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B04@13'	Y402696-01	Soil	February 27, 2024 15:56	02/28/2024 12:04
WH-N04@12'	Y402696-02	Soil	February 27, 2024 15:58	02/28/2024 12:04
WH-E04@12'	Y402696-03	Soil	February 27, 2024 16:00	02/28/2024 12:04
WH-S04@12'	Y402696-04	Soil	February 27, 2024 16:02	02/28/2024 12:04
WH-W04@12'	Y402696-05	Soil	February 27, 2024 16:04	02/28/2024 12:04
WH-S04@9'	Y402696-06	Soil	February 27, 2024 16:06	02/28/2024 12:04

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44026010 Client: Eagle
 Checklist Completed by: JH/EAS Client Project ID: Skyfall
 Date/time completed: 2/22/24 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1149.c / _____ °C / _____ °C / _____ °C
 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 ⁽¹⁾ ?	/			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
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)

2/29/24
 Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B04@13'
2/27/2024 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 93.8 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 88.1 % 70-130 " " "
 Surrogate: Toluene-d8 96.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 94.8 % 60-130 " " "
 Surrogate: Anthracene-d10 101 % 60-130 " " "
 Surrogate: Pyrene-d10 104 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-B04@13'
2/27/2024 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-01 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	102 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.62	0.273	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	451	9.41	"	"	"	KMC	"	"	
Cadmium	0.273	0.0941	"	"	"	KMC	"	"	
Copper	ND	9.41	"	"	"	KMC	"	"	
Lead	9.77	0.941	"	"	"	KMC	"	"	
Nickel	12.1	0.941	"	"	"	KMC	"	"	
Selenium	ND	0.245	"	"	"	KMC	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N04@12'
2/27/2024 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 91.6 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 88.4 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 92.9 % 60-130 " " "
 Surrogate: Anthracene-d10 92.9 % 60-130 " " "
 Surrogate: Pyrene-d10 104 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-N04@12'
2/27/2024 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	104 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.05	0.275	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	539	9.49	"	"	"	KMC	"	"	
Cadmium	0.322	0.0949	"	"	"	KMC	"	"	
Copper	10.7	9.49	"	"	"	KMC	"	"	
Lead	13.2	0.949	"	"	"	KMC	"	"	
Nickel	15.3	0.949	"	"	"	KMC	"	"	
Selenium	ND	0.247	"	"	"	KMC	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E04@12'
2/27/2024 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 88.6 % 70-130 " " "
 Surrogate: Toluene-d8 97.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 98.7 % 60-130 " " "
 Surrogate: Anthracene-d10 96.3 % 60-130 " " "
 Surrogate: Pyrene-d10 102 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-E04@12'
2/27/2024 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-03 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	104 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.17	0.253	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	326	8.72	"	"	"	KMC	"	"	
Cadmium	0.335	0.0872	"	"	"	KMC	"	"	
Copper	10.8	8.72	"	"	"	KMC	"	"	
Lead	13.8	0.872	"	"	"	KMC	"	"	
Nickel	15.3	0.872	"	"	"	KMC	"	"	
Selenium	ND	0.227	"	"	"	KMC	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S04@12'
2/27/2024 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.9 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 89.5 % 70-130 " " "

Surrogate: Toluene-d8 96.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 97.6 % 60-130 " " "

Surrogate: Anthracene-d10 99.0 % 60-130 " " "

Surrogate: Pyrene-d10 93.4 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S04@12'
2/27/2024 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	94.0 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.70	0.259	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	3730	8.92	"	"	"	KMC	"	"	
Cadmium	0.314	0.0892	"	"	"	KMC	"	"	
Copper	ND	8.92	"	"	"	KMC	"	"	
Lead	8.90	0.892	"	"	"	KMC	"	"	
Nickel	11.1	0.892	"	"	"	KMC	"	"	
Selenium	ND	0.232	"	"	"	KMC	"	"	

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W04@12'
2/27/2024 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 91.4 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 92.1 % 70-130 " " "
 Surrogate: Toluene-d8 94.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 98.1 % 60-130 " " "
 Surrogate: Anthracene-d10 98.3 % 60-130 " " "
 Surrogate: Pyrene-d10 109 % 60-130 " " "

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-W04@12'
2/27/2024 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	96.3 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.24	0.278	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	896	9.60	"	"	"	KMC	"	"	
Cadmium	0.314	0.0960	"	"	"	KMC	"	"	
Copper	ND	9.60	"	"	"	KMC	"	"	
Lead	11.5	0.960	"	"	"	KMC	"	"	
Nickel	14.4	0.960	"	"	"	KMC	"	"	
Selenium	ND	0.250	"	"	"	KMC	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S04@9'
2/27/2024 4:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B2937	ZZZ	02/29/2024	03/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B4B2931	HK	02/29/2024	02/29/2024	U
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Surrogate: 1,2-Dichloroethane-d4 89.3 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102	agile	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10 94.2 % 60-130 " " "
 Surrogate: Anthracene-d10 95.5 % 60-130 " " "
 Surrogate: Pyrene-d10 101 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

WH-S04@9'
2/27/2024 4:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402696-06 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130			B4C01 02		03/01/2024	03/01/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.32	0.272	mg/kg	10	B4B2740	KMC	02/28/2024	03/04/2024	
Barium	357	9.37	"	"	"	KMC	"	"	
Cadmium	0.342	0.0937	"	"	"	KMC	"	"	
Copper	13.0	9.37	"	"	"	KMC	"	"	
Lead	16.1	0.937	"	"	"	KMC	"	"	
Nickel	17.3	0.937	"	"	"	KMC	"	"	
Selenium	ND	0.244	"	"	"	KMC	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2931 - EPA 5030 (soil)

Blank (B4B2931-BLK1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

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	0.10		"	0.125	80.5		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.2		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2931 - EPA 5030 (soil)

LCS (B4B2931-BS1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0986	0.00200	"	0.100		98.6	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2931 - EPA 5030 (soil)

Matrix Spike (B4B2931-MS1)	Source: Y402695-01			Prepared: 02/29/2024 Analyzed: 02/29/2024						
1,2,4-Trimethylbenzene	0.0765	0.00200	mg/kg	0.100	ND	76.5	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	0.0355	76.5	70-130			
Benzene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0598	0.00380	"	0.100	0.000680	59.2	70-130			QM-07
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
o-Xylene	0.112	0.00200	"	0.100	0.00228	110	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.125		128	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2931 - EPA 5030 (soil)

Matrix Spike Dup (B4B2931-MSD1)	Source: Y402695-01			Prepared: 02/29/2024 Analyzed: 02/29/2024						
1,2,4-Trimethylbenzene	0.0622	0.00200	mg/kg	0.100	ND	62.2	70-130	20.6	20	QM-07
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	0.0355	76.8	70-130	0.267	20	
Benzene	0.0777	0.00200	"	0.100	ND	77.7	70-130	6.26	20	
Ethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	10.9	20	
Naphthalene	0.0496	0.00380	"	0.100	0.000680	49.0	70-130	18.6	20	QM-07
Toluene	0.0765	0.00200	"	0.100	ND	76.5	70-130	10.0	20	
o-Xylene	0.102	0.00200	"	0.100	0.00228	99.2	70-130	9.94	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.0	70-130	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.17		"	0.125		133	70-130			S-GC

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2937 - EPA 3550B										
Blank (B4B2937-BLK1)										
					Prepared: 02/29/2024 Analyzed: 03/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.3	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2937 - EPA 3550B

LCS (B4B2937-BS1)

Prepared: 02/29/2024 Analyzed: 03/09/2024

Diesel (C10-C28)	790	50.0	mg/kg	1000		79.0	70-130			
Residual Range Organics (C28-C40)	839	200	"	1000		83.9	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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Eagle Environmental Consulting, LLC
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Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2937 - EPA 3550B										
Matrix Spike (B4B2937-MS1)		Source: Y402696-01			Prepared: 02/29/2024 Analyzed: 03/09/2024					
Diesel (C10-C28)	835	50.0	mg/kg	1000	ND	83.5	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000	ND	90.5	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.8	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2937 - EPA 3550B										
Matrix Spike Dup (B4B2937-MSD1)		Source: Y402696-01			Prepared: 02/29/2024 Analyzed: 03/09/2024					
Diesel (C10-C28)	801	50.0	mg/kg	1000	ND	80.1	70-130	4.22	35	
Residual Range Organics (C28-C40)	849	200	"	1000	ND	84.9	70-130	6.36	35	
Surrogate: o-Terphenyl	46		"	49.8		93.3	50-150			

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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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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 B4B2740 - EPA 3050B

Blank (B4B2740-BLK1)

Prepared: 02/28/2024 Analyzed: 03/04/2024

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	"							

LCS (B4B2740-BS1)

Prepared: 02/28/2024 Analyzed: 03/04/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	504	10.0	"	500		101	80-120			
Cadmium	5.64	0.100	"	5.00		113	80-120			
Copper	50.8	10.0	"	50.0		102	80-120			
Lead	4.74	1.00	"	5.00		94.8	80-120			
Nickel	5.54	1.00	"	5.00		111	80-120			
Selenium	9.80	0.260	"	9.50		103	80-120			

Matrix Spike (B4B2740-MS1)

Source: Y402651-04

Prepared: 02/28/2024 Analyzed: 03/04/2024

Arsenic	9.90	0.279	mg/kg	4.82	4.72	108	75-125			
Barium	781	9.63	"	482	246	111	75-125			
Cadmium	5.62	0.0963	"	4.82	0.179	113	75-125			
Copper	53.4	9.63	"	48.2	8.72	92.7	75-125			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4B2740 - EPA 3050B

Matrix Spike (B4B2740-MS1)

Source: Y402651-04

Prepared: 02/28/2024 Analyzed: 03/04/2024

Lead	14.7	0.963	mg/kg	4.82	9.45	109	75-125			
Nickel	18.1	0.963	"	4.82	13.8	89.2	75-125			
Selenium	10.8	0.250	"	9.15	ND	118	75-125			

Matrix Spike Dup (B4B2740-MSD1)

Source: Y402651-04

Prepared: 02/28/2024 Analyzed: 03/04/2024

Arsenic	9.50	0.275	mg/kg	4.74	4.72	101	75-125	4.20	20	
Barium	665	9.49	"	474	246	88.4	75-125	16.1	20	
Cadmium	5.55	0.0949	"	4.74	0.179	113	75-125	1.19	20	
Copper	52.7	9.49	"	47.4	8.72	92.8	75-125	1.22	20	
Lead	14.3	0.949	"	4.74	9.45	102	75-125	2.79	20	
Nickel	18.2	0.949	"	4.74	13.8	92.3	75-125	0.436	20	
Selenium	10.2	0.247	"	9.01	ND	113	75-125	5.79	20	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B4C0102 - EPA 3580

Blank (B4C0102-BLK1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

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
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	100	60-130				
Surrogate: Anthracene-d10	210		"	200	103	60-130				
Surrogate: Pyrene-d10	190		"	200	95.9	60-130				
Surrogate: Benzo (a) pyrene-d12	200		"	200	101	60-130				

LCS (B4C0102-BS1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	94.6	70-130				
2-Methylnaphthalene	0.186	0.002	"	0.200	93.1	70-130				
Acenaphthene	0.192	0.020	"	0.200	95.8	70-130				
Anthracene	0.194	0.020	"	0.200	97.2	70-130				

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B4C0102 - EPA 3580

LCS (B4C0102-BS1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.2	70-130			
Benzo (a) pyrene	0.215	0.020	"	0.200		108	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.7	70-130			
Chrysene	0.198	0.020	"	0.200		99.1	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200		118	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Fluorene	0.189	0.020	"	0.200		94.5	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200		104	70-130			
Naphthalene	0.194	0.002	"	0.200		96.8	70-130			
Phenanthrene	0.200	0.020	"	0.200		100	70-130			
Pyrene	0.203	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4C0102-MS1)

Source: Y402694-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.9	70-130			
Acenaphthene	0.199	0.020	"	0.200	ND	99.6	70-130			
Anthracene	0.209	0.020	"	0.200	ND	104	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.003	90.0	70-130			
Benzo (a) pyrene	0.225	0.020	"	0.200	ND	113	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	ND	98.3	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0009	103	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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
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Batch B4C0102 - EPA 3580

Matrix Spike (B4C0102-MS1)	Source: Y402694-01				Prepared: 03/01/2024 Analyzed: 03/01/2024					
Benzo (k) fluoranthene	0.198	0.020	mg/kg	0.200	ND	99.2	70-130			
Chrysene	0.206	0.020	"	0.200	0.0004	103	70-130			
Dibenz (a,h) anthracene	0.248	0.020	"	0.200	ND	124	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.3	70-130			
Fluorene	0.198	0.020	"	0.200	0.0003	98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B4C0102-MSD1)	Source: Y402694-01				Prepared: 03/01/2024 Analyzed: 03/01/2024					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.7	70-130	6.62	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.6	70-130	5.55	20	
Acenaphthene	0.188	0.020	"	0.200	ND	93.9	70-130	5.86	20	
Anthracene	0.196	0.020	"	0.200	ND	97.9	70-130	6.35	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.003	89.7	70-130	0.302	20	
Benzo (a) pyrene	0.213	0.020	"	0.200	ND	107	70-130	5.41	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	4.20	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.0009	98.6	70-130	4.23	20	
Benzo (k) fluoranthene	0.188	0.020	"	0.200	ND	94.0	70-130	5.40	20	
Chrysene	0.193	0.020	"	0.200	0.0004	96.2	70-130	6.76	20	
Dibenz (a,h) anthracene	0.243	0.020	"	0.200	ND	121	70-130	2.09	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.5	70-130	0.916	20	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - Skyfall 2-5

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 B4C0102 - EPA 3580

Matrix Spike Dup (B4C0102-MSD1)	Source: Y402694-01			Prepared: 03/01/2024 Analyzed: 03/01/2024						
Fluorene	0.185	0.020	mg/kg	0.200	0.0003	92.3	70-130	6.83	20	
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130	4.25	20	
Naphthalene	0.192	0.002	"	0.200	ND	96.2	70-130	4.98	20	
Phenanthrene	0.195	0.020	"	0.200	ND	97.3	70-130	6.63	20	
Pyrene	0.197	0.020	"	0.200	ND	98.6	70-130	2.51	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - Skyfall 2-5

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 at a wet weight basis.

Origins Laboratory, Inc.



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ATTACHMENT B
FIELD NOTES AND PHOTOGRAPHIC LOG

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Skyfall 2-5		Date: 9-7-2023					Remediation Project #: 29666		
Associated Wells: 05-073-06719		Age of Site:					Number of Photos Attached:		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 39.298800, -103.573500							Estimated Facility Size (acres):		

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Good condition

USCS Soil Type: ML Estimated Depth to Groundwater: < 20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
HC impacted soil encountered @ WH-BØ1E8'

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None encountered

Wellhead(s)						
Well API	05-073-06719					
Age						
Condition of surface around wellhead	good condition					
PID Readings						
Condition of subsurface (staining present)						
PID Readings	10.8	7.6	0.0	0.0	3.6	4.1
Sample taken? Location / Sample ID#	WH-BØ1E8'	WH-NØ1E7'	WH-SØ1E7'	WH-EØ1E7'	WH-WØ1E7'	WH-S-NØ1E3''
Photo Number(s)						

Other observations regarding wellheads:
See attached table for remaining field screenings

Summary	
Was impacted soil identified?	No <input type="checkbox"/> Yes - less than 10 cubic yards Yes - more than 10 cubic yards <input type="checkbox"/>
Total number of samples field screened:	14 Total number of samples collected: 14
Highest PID Reading:	10.8 Total number of samples submitted to lab for analysis: 6
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation?	No Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils <input type="checkbox"/>
Measured depth to groundwater:	Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Volume of groundwater removed prior to sampling:
Free product observed? Yes <input type="checkbox"/> No <input type="checkbox"/>	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

Tank Battery Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
------------------------------------	--	-------------	--	------------------	--	------------------	--	--------------------------------

Site Name & COGCC Facility Number: Skylark 2-S	Date: 10/25/23	Remediation Project #: 29666
Associated Wells: FAL ID-450166	Age of Site: Years	Number of Photos Attached:
Location: (GPS coordinates of southeaster berm) 39.301802 / -103.574051		Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Good

USCS Soil Type: _____ Estimated Depth to Groundwater: _____

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Tanks

Tank Contents	Size (barrels)	Age	Construction Material	Tank type	Visual Integrity	Condition of tank	PID Readings	Soil impacts present at valves or hatches?	PID Readings	Sample taken? Location/ Sample ID#	Photo Number(s)
0,6,W		Years	Steel					N/A	0.6/0.7 0.8/1.1 0.7/0.8 0.6/0.8	AST-B01/02 AST-B03/04 AST-B05/06 AST-B07/08	See photolog

Other observations regarding tanks:

Removed prior to assessment

Separators

Separator size	Vertical or Horizontal	Age	Soil impacts	PID Readings	Sample taken? Location/ Sample ID#	Photo Number(s)
		Years	None	0.6	SEP-B01	See photolog

Other observations regarding separators:

Removed prior to assessment

Third Party Equipment

Type	Age						
ECD-1	ECD-2						

Third Party									
Removal Date									
Sample taken?	ECD-B01	E10-B01							
PID Readings	0.3	0.5							
Photo Number(s)	See photo log								

Other Facility Equipment

Equipment type				
Equipment Condition				
Age				
Soil impacts				
PID Readings				
Sample taken?				
Photo Number(s)				

Other observations regarding other facility or third party equipment:

ECD's removed prior to assessment

Summary

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
<input checked="" type="radio"/> No					
Total number of samples field screened: 12			Total number of samples collected: 12		
Highest PID Reading: 1.1			Total number of samples submitted to lab for analysis: 5		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent:			Estimated spill volume:		
Lateral extent: MA			Volume of soil removed:		
Is additional investigation required?					
Was groundwater encountered during the investigation?					
<input checked="" type="radio"/> No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils	
Measured depth to groundwater:			Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:			Commencement date of removal:		
Sheen on groundwater? Yes No			Volume of groundwater removed prior to sampling:		
Free product observed? Yes No			Volume of groundwater removed post-sampling:		
Total number of samples collected:			Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:					

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

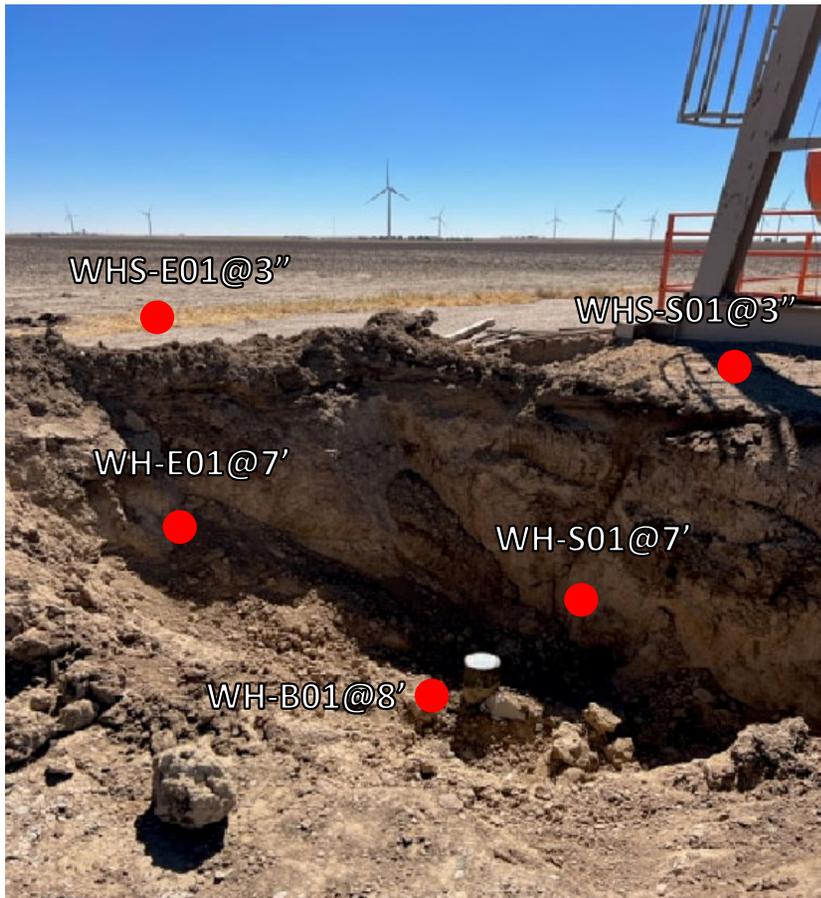
Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: 450106		Date: 9-7-23 + 10-25-23				Remediation Project #: 29106			
Associated Wells: Shufall 2-5		Age of Site:				Number of Photos Attached:			
Starting point: (GPS coordinates and descriptions) 39.298800, -103.573500									
End point: (GPS coordinates and descriptions) 39.301829, -103.573722									
USCS Soil Type: ML					Estimated Depth to Groundwater: < 20'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered									
Flowlines									
Flowline type									
Depth									
Age									
Length									
Construction Material									
Were flowlines pulled?	NO								
Visual Integrity of lines									
Visual impacts if trenched									
PID Readings if trenched	4.9	0.2							
Sample taken? Location/Sample ID#	FL-BIN06	FL-B0204							
Photo Number(s)									
Other observations regarding on location flowlines:									
Summary									
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 2				Total number of samples collected: 2					
Highest PID Reading: 4.9				Total number of samples submitted to lab for analysis: 2					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Seen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

Skyfall 2-5
Photographic Log
Remediation #29666

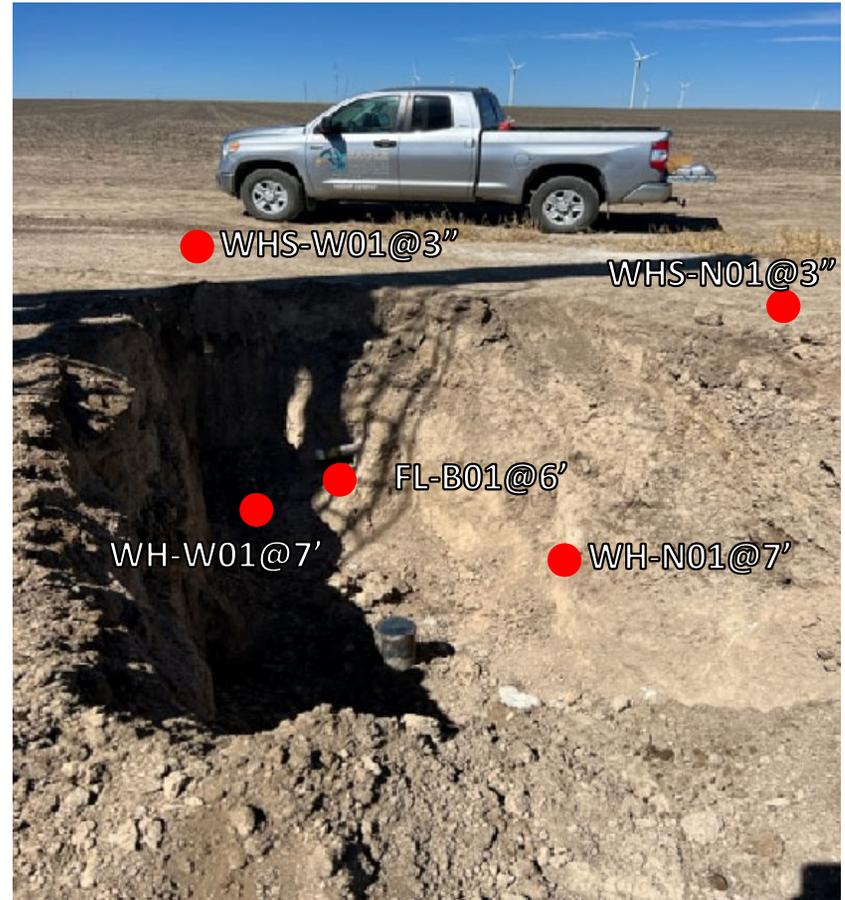
Wellhead and Facility Decommissioning



Wellhead/Flowline



Wellhead sample locations looking southeast.



Wellhead sample locations looking west.

Wellhead

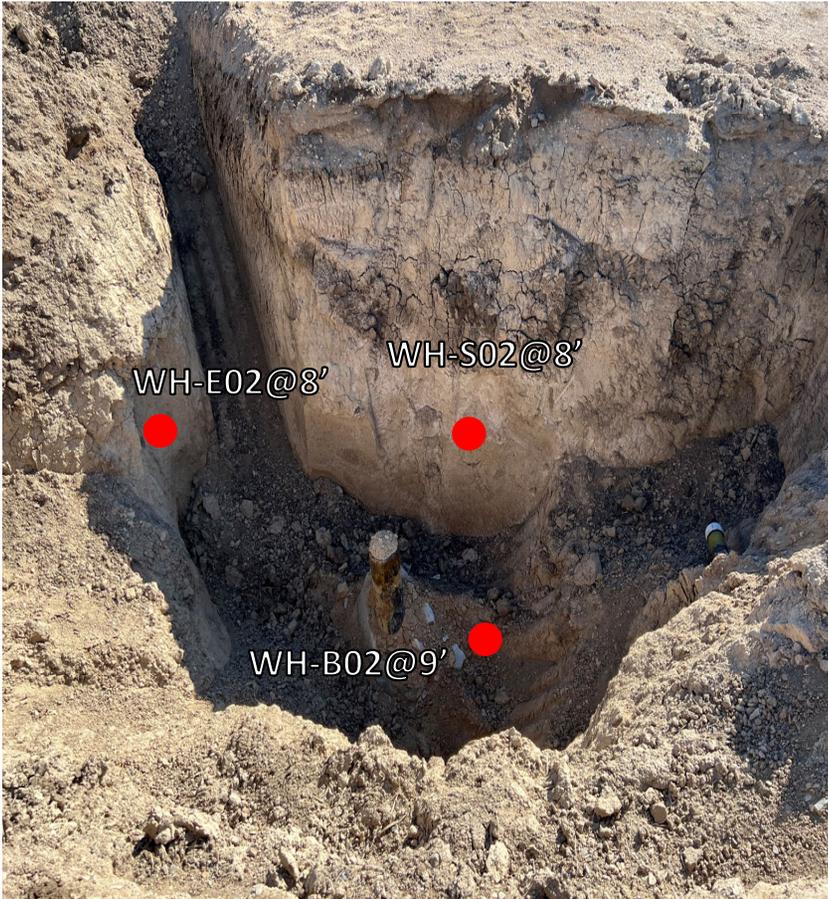


Wellhead background location.



Wellhead background location.

Wellhead



Wellhead sample locations looking south.



Wellhead sample locations looking northwest.

Wellhead



Wellhead sample locations looking northwest.



Wellhead sample locations looking southeast.

Wellhead



Wellhead background sample locations looking east.



Wellhead background sample locations looking west.

Wellhead



Wellhead sample locations looking northwest.



Wellhead sample locations looking southeast.

Flowline

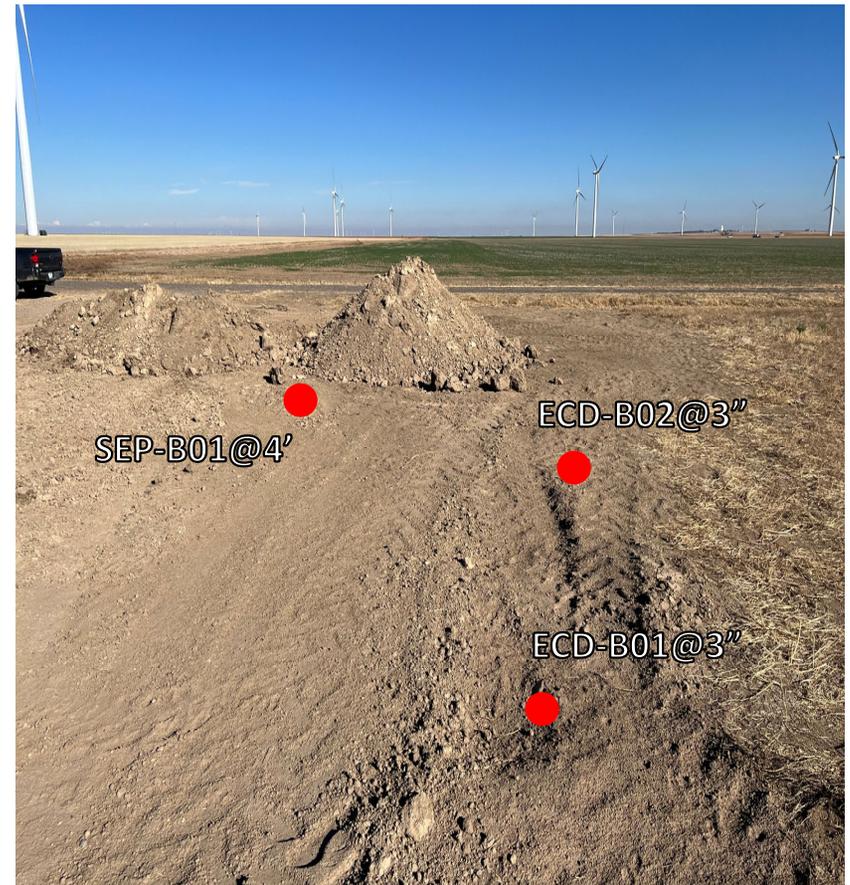


Wellhead sample locations looking southeast.

Facility



Facility sample locations looking northwest.



Wellhead sample locations looking west.

Facility



Facility sample locations looking southwest.