



Advanced Technologies  
Waste Management Support  
Environmental Services  
Staff Augmentation

Native American and Women Owned  
8(a) Small Business

July 18, 2023  
Sydney Smith  
Fundare Resource Company  
56719 CR 127  
New Raymer, CO 80742  
**RE: Confirmation Sampling**  
**Wolf 35-2613H - Report Number: RPT-FTCOL-23-43**  
**Weld County, Colorado**

Sydney:

On April 10, 2023, MarCom LLC (MarCom) was contracted by Fundare to conduct an initial site investigation at the Wolf 35-2613H release and collect a source sample at the (Site) in Weld County, Colorado. The purpose of the initial investigation was to identify all potential impacts and collect a site-specific source sample to set a baseline and determine the limits of impacts that could have been introduced from the release. This source sample was collected following the Energy & Carbon Management Commission (ECMC) Table 915-1. The site is identified by the COGCC as Spill/Release Point ID 484269.

On April 10, 2023, following remedial excavation, MarCom returned to the site to collect Confirmation Soil Samples. Soil Sample (SS) 1 through SS-11 were collected in accordance with Rule 915.e.(2) guidance. A site map with the sample locations is presented in Figure 4. Soil samples were collected as described in Rule 915.e.(2) Guidance Document and were analyzed for full table 915 constituents at Summit Scientific (Summit) in Golden, Colorado. Analytical results identified exceedances of TPH at SS-9, and inorganic exceedances in SS-1, SS-3, SS-5, SS-8, and SS-10. Following review of analytical results, remedial excavation continued.

On May 23, 2023, MarCom returned to the site to conduct soil confirmation sampling. Confirmation Soil Samples Bottomhole (BH) 1 through BH-2, and Sidewalls (SW) 1 through 11 were collected as described in Rule 915.e.(2) Guidance Document and were analyzed for full Table 915-1 constituents. Analytical results indicated that all organics had been removed below Table 915-1 limits. Analytical results exceeded table 915 limits for SAR and PH at SW-2, SW-3, and BH-2. Background samples were collected on June 15, 2023, in accordance with COGCC 915 guidance, and utilized as a site-specific limit. When compared to backgrounds elevated levels of SAR and PH in SW-2, SW-3, and BH-2 still exceeded table 915 limits.

**Idaho Falls, ID**  
525 Park Avenue, Suite 2E  
Idaho Falls, ID 83402  
Phone: 208-538-1782

**Butte, MT**  
65 E Broadway, Suite 200  
Butte, MT 59701  
Phone: 208-390-8301

**Fort Collins, CO**  
1613 Prospect Park Way Suite 120  
Fort Collins, CO 80525  
Phone: 208-201-8280

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On July 5, 2023, Addition remedial excavation at BH-2, and SW-2 and SW-3 was conducted. MarCom collected confirmation Soil Sample BH-2 at a depth of 4-foot bgs, in place of Bh-2 at 3-foot bgs, and new samples SW-7, and SW-8. Soil Confirmation samples were collected as described in Rule 915.e.(2) Guidance Document and were analyzed for full Table 915-1 constituents. Analytical results indicated that all soil impacts have been removed below site specific backgrounds, laboratory detection limits, and Residential Soil Screening limits. The Pathway to groundwater has been eliminated, making residential screening limits the default comparison. Groundwater is estimated to be at a depth of 75 feet bgs based on data provided by the Department of Water Resources (DWR). Depth to groundwater combined with the geology of the consolidated siltstone eliminates the pathway to groundwater at this site.

Following the excavations, Fundare contractors transported and disposed of the excavated stockpile material at an approved landfill facility. Clean soil will be brought into the Site to backfill the excavated areas upon approval of this closure request. Based upon the collected analytical data MarCom believes that no further corrective action is necessary, and that Fundare can request closure from the COGCC. If you have any questions or comments, please do not hesitate to call me at (970) 237-1415.

Respectfully Submitted,  
Levi Kirk  
Project Manager  
MarCom LLC

**Idaho Falls, ID**  
525 Park Avenue, Suite 2E  
Idaho Falls, ID 83402  
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**Fort Collins, CO**  
1613 Prospect Park Way Suite 120  
Fort Collins, CO 80525  
Phone: 208-201-8280

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# **Attachment 1**

## **Figures**



Legend

**X** Site Location



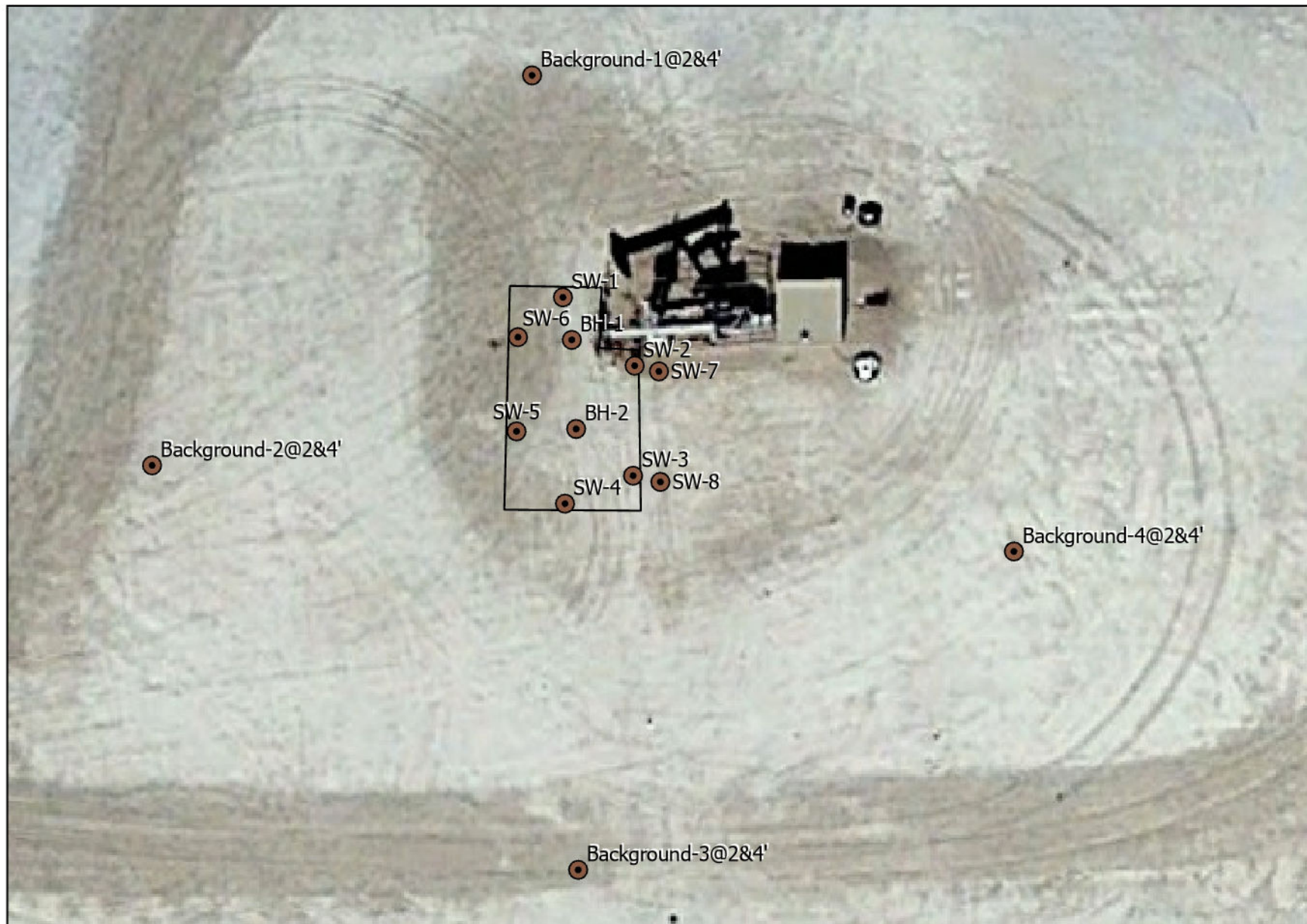
0 0.07 0.15 Miles

Wolf 35-2613H Site Location






Date: 04.10.23  
Creator: CP





Legend

-  Backgrounds
-  Field Samples
-  Remediation Excavation

N

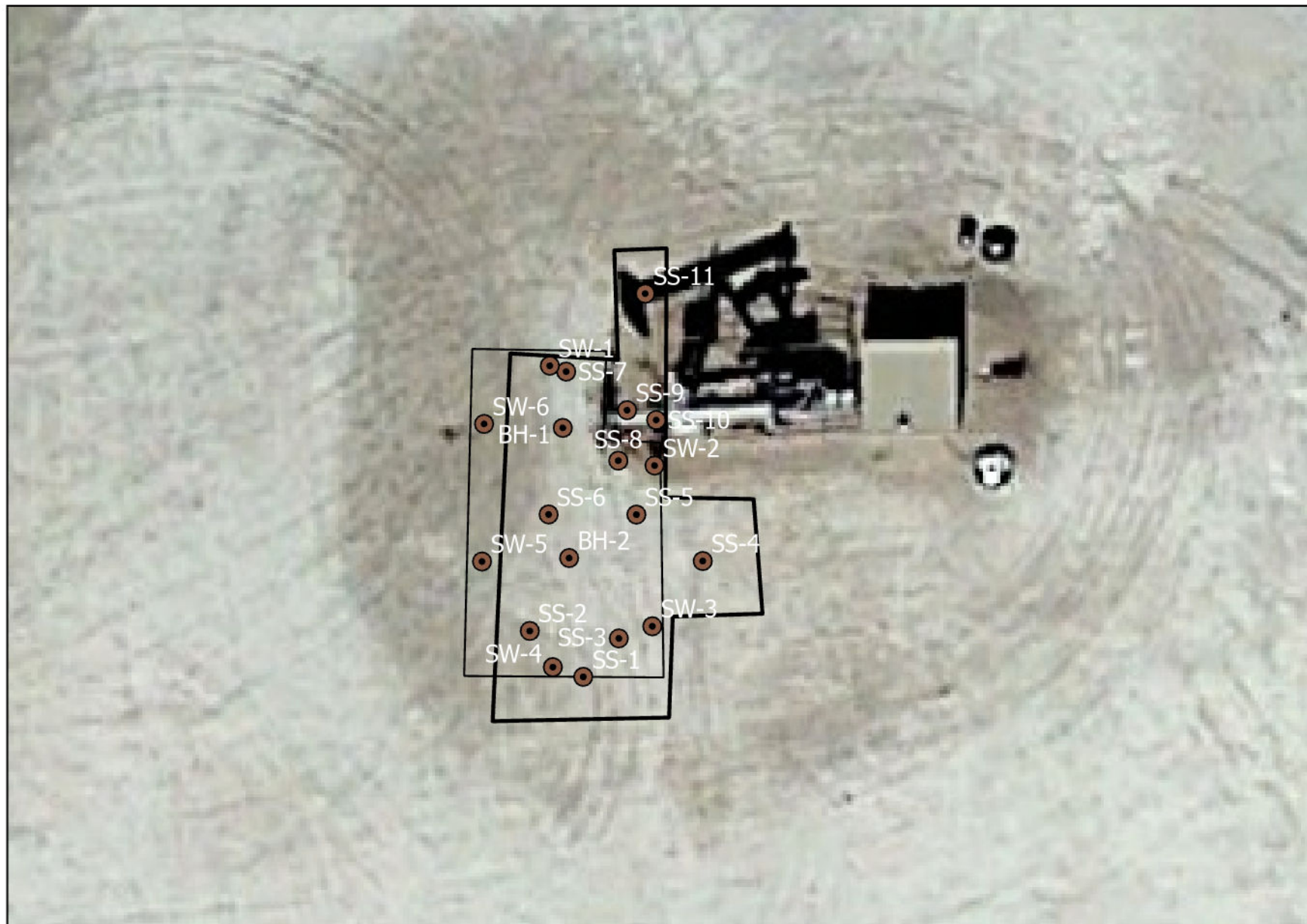





0 12.5 25 50 Feet

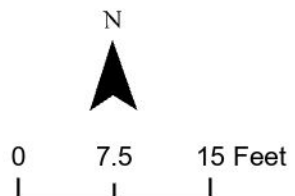
Wolf 35-2613H Background Samples




Date: 07.06.23  
Creator: BR



Legend	
	Scrape Zone
	Field Samples
	Remediation Excavation



Wolf 35-2613H Field Samples	
	Date: 05.23.23 Creator: CP

## **Attachment 2**

### **Tables**

Wolf 35-2613H - Soil Analytical Summary Table								
					Residential Soil Limits	benzene	toluene	ethylbenzene
Residential Soil								
COGCC Table 915-1 Concentration Levels						1.2	490	5.8
Background *1.25						NA	NA	NA
Units						mg/kg	mg/kg	mg/kg
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	benzene	toluene	ethylbenzene
BACKGROUND-1@2'	Y306432-01	6/15/2023	TRUE	40.78823	-103.95266	NA	NA	NA
BACKGROUND-1@4'	Y306432-02	6/15/2023	TRUE	40.78823	-103.95266	NA	NA	NA
BACKGROUND-2@2'	Y306432-03	6/15/2023	TRUE	40.78807	-103.95287	NA	NA	NA
BACKGROUND-2@4'	Y306432-04	6/15/2023	TRUE	40.78807	-103.95287	NA	NA	NA
BACKGROUND-3@2'	Y306432-05	6/15/2023	TRUE	40.7879	-103.95264	NA	NA	NA
BACKGROUND-3@4'	Y306432-06	6/15/2023	TRUE	40.7879	-103.95264	NA	NA	NA
BACKGROUND-4@2'	Y306432-07	6/15/2023	TRUE	40.78803	-103.9524	NA	NA	NA
BACKGROUND-4@4'	Y306432-08	6/15/2023	TRUE	40.78803	-103.9524	NA	NA	NA
Source Sample 1@1'	2304189-01	4/10/2023	FALSE	40.788155	-103.952656	3.3	43	30
SS-1@6"	2304257-01	4/11/2023	FALSE	40.78804	-103.95264	<0.002	<0.005	<0.005
SS-2@6"	2304257-02	4/11/2023	FALSE	40.788062	-103.952653	<0.002	<0.005	<0.005
SS-3@6"	2304257-03	4/11/2023	FALSE	40.78806	-103.95262	<0.002	<0.005	<0.005
SS-4@6"	2304257-04	4/11/2023	FALSE	40.788082	-103.952588	<0.002	<0.005	<0.005
SS-5@6"	2304257-05	4/11/2023	FALSE	40.788095	-103.952613	<0.002	<0.005	<0.005
SS-6@6"	2304257-06	4/11/2023	FALSE	40.788095	-103.952646	<0.002	<0.005	<0.005
SS-7@6"	2304257-07	4/11/2023	FALSE	40.788136	-103.952638	<0.002	<0.005	<0.005
SS-8@6"	2304257-08	4/11/2023	FALSE	40.788114	-103.952617	<0.002	<0.005	<0.005
SS-9@6"	2304257-09	4/11/2023	FALSE	40.788125	-103.952616	<0.002	<0.005	<0.005
SS-10@6"	2304257-10	4/11/2023	FALSE	40.788122	-103.952605	<0.002	<0.005	<0.005
SS-11@6"	2304257-11	4/11/2023	FALSE	40.788158	-103.952609	<0.002	<0.005	<0.005
BH-1@3'	Y305605-07	5/23/2023	FALSE	40.78812	-103.95264	<0.00200	<0.00200	<0.00200
BH-2@3'	Y305605-08	5/23/2023	FALSE	40.788083	-103.952638	<0.00200	<0.00200	<0.00200
BH-2@4'	Y307080-03	7/5/2023	FALSE	40.788083	-103.952638	NA	NA	NA
SW-1@2'	Y305605-01	5/23/2023	FALSE	40.788138	-103.952645	<0.00200	<0.00200	<0.00200
SW-2@2'	Y305605-02	5/23/2023	FALSE	40.788109	-103.952606	<0.00200	<0.00200	<0.00200
SW-3@2'	Y305605-03	5/23/2023	FALSE	40.788063	-103.952607	<0.00200	<0.00200	<0.00200
SW-4@2'	Y305605-04	5/23/2023	FALSE	40.788052	-103.952645	<0.00200	<0.00200	<0.00200
SW-5@2'	Y305605-05	5/23/2023	FALSE	40.788082	-103.952671	<0.00200	<0.00200	<0.00200
SW-6@2'	Y305605-06	5/23/2023	FALSE	40.788121	-103.952669	<0.00200	<0.00200	<0.00200
SW-7@2'	Y307080-01	7/5/2023	FALSE	40.788109	-103.952606	NA	NA	NA
SW-8@2'	Y307080-02	7/5/2023	FALSE	40.788063	-103.952607	NA	NA	NA

Notes:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics (C10-C28)

ORO - oil range organics (C28-C36)

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mmhos/cm - millimhos per centimeter

NL - Not Listed

NA- Not Analyzed

TPH - total petroleum hydrocarbons

< - Indicates analytical result is less than the laboratory reporting limit (<RL).

**Red font** - indicates the sample result exceeds the applicable COGCC Table 915-1 cleanup concentration limit.

Origins Laboratory, Inc. lists concentrations of Calcium, Magnesium, and Sodium in the units of milliequivalents per liter (meq/L). These concentrations have been converted to the units of milligrams per liter (mg/L).



<b>Wolf 35-26</b>								
	<i>Xylenes (total)</i>	<i>1,2,4-trimethylbenzene</i>	<i>1,3,5-trimethylbenzene</i>	<i>naphthalene</i>	<i>Gasoline Range Hydrocarbons</i>	<i>C10-C28 (DRO)</i>	<i>C28-C36 (ORO)</i>	<i>TPH (Calculated)</i>
Residential Soil								
COGCC Table 915-1 Concentrations	58	30	27	2	500	500	500	500
Background *1.25	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample	Xylenes (total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	naphthalene	Gasoline Range Hydrocarbons	C10-C28 (DRO)	C28-C36 (ORO)	TPH (Calculated)
BACKGROUND-1@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-1@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-2@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-2@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-3@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-3@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-4@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-4@4'	NA	NA	NA	NA	NA	NA	NA	NA
Source Sample 1@1'	81	31	7.6	8.3	3000	15000	2500	20900
SS-1@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-2@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-3@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-4@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-5@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-6@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-7@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-8@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-9@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	540	350	890
SS-10@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	<50	<50	<100.5
SS-11@6"	<0.01	<0.005	<0.005	<0.0038	<0.5	110	50	160
BH-1@3'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
BH-2@3'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
BH-2@4'	NA	NA	NA	NA	NA	NA	NA	NA
SW-1@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-2@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-3@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-4@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-5@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-6@2'	<0.00200	<0.00200	<0.00200	<0.00201	<0.200	<25.0	<100	<125.2
SW-7@2'	NA	NA	NA	NA	NA	NA	NA	NA
SW-8@2'	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

COGCC - Colorado Oil and  
DRO - diesel range organic  
ORO - oil range organics (t  
mg/kg - milligrams per kilo  
mg/L - milligrams per liter  
mmhos/cm - millimhos pe  
NL - Not Listed  
NA- Not Analyzed  
TPH - total petroleum hyd  
< - Indicates analytical resi  
**RED font** - indicates the si  
Origins Laboratory, Inc. list

Wolf 35-26								
Residential Soil	acenaphthene	anthracene	benzo(a)anthracene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	dibenzo(a,h)anthracene
COGCC Table 915-1 Concentrations	360	1800	1.1	0.11	1.1	11	110	0.11
Background *1.25	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample	acenaphthene	anthracene	benzo(a)anthracene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	dibenzo(a,h)anthracene
BACKGROUND-1@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-1@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-2@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-2@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-3@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-3@4'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-4@2'	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND-4@4'	NA	NA	NA	NA	NA	NA	NA	NA
Source Sample 1@1'	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.338	<0.05
SS-1@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00558	<0.005
SS-2@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-3@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-4@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-5@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-6@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-7@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-8@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-9@6"	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SS-10@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SS-11@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0135	<0.005
BH-1@3'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH-2@3'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00158	<0.00067
BH-2@4'	NA	NA	NA	NA	NA	NA	NA	NA
SW-1@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SW-2@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SW-3@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SW-4@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000736	<0.00067
SW-5@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SW-6@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SW-7@2'	NA	NA	NA	NA	NA	NA	NA	NA
SW-8@2'	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
 COGCC - Colorado Oil and  
 DRO - diesel range organic  
 ORO - oil range organics (t  
 mg/kg - milligrams per kilo  
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 NA- Not Analyzed  
 TPH - total petroleum hyd  
 < - Indicates analytical resi  
**RED font** - indicates the si  
 Origins Laboratory, Inc. list

Wolf 35-26									
	fluorene								
	fluoranthene	fluorene	indeno(1,2,3-cd)pyrene	pyrene	1-methylnaphthalene	2-methylnaphthalene	Boron	arsenic	
Residential Soil									
COGCC Table 915-1 Concentration	240	240	1.1	180	18	25	2	0.68	
Background *1.25	NA	NA	NA	NA	NA	NA	0/68	5.675	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg dry	
Sample	fluoranthene	fluorene	indeno(1,2,3-cd)pyrene	pyrene	1-methylnaphthalene	2-methylnaphthalene	Boron	arsenic	
BACKGROUND-1@2'	NA	NA	NA	NA	NA	NA	0.55	4.24	
BACKGROUND-1@4'	NA	NA	NA	NA	NA	NA	0.522	4.03	
BACKGROUND-2@2'	NA	NA	NA	NA	NA	NA	<0.101	4.21	
BACKGROUND-2@4'	NA	NA	NA	NA	NA	NA	0.321	3.94	
BACKGROUND-3@2'	NA	NA	NA	NA	NA	NA	0.174	3.57	
BACKGROUND-3@4'	NA	NA	NA	NA	NA	NA	0.425	4.52	
BACKGROUND-4@2'	NA	NA	NA	NA	NA	NA	<0.100	4.54	
BACKGROUND-4@4'	NA	NA	NA	NA	NA	NA	<0.102	4.26	
Source Sample 1@1'	<0.05	1.31	<0.05	<0.05	4.24	7.73	0.674	1.87	
SS-1@6"	<0.005	0.0147	<0.005	<0.005	0.0517	0.0397	0.0604	2.78	
SS-2@6"	<0.005	0.00531	<0.005	<0.005	0.0217	0.0165	0.0564	3.43	
SS-3@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.072	3.23	
SS-4@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0442	4.00	
SS-5@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0445	2.42	
SS-6@6"	<0.005	<0.005	<0.005	<0.005	0.00897	0.00744	0.0719	3.54	
SS-7@6"	<0.005	0.0108	<0.005	<0.005	<0.005	<0.005	0.0888	3.54	
SS-8@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.107	2.90	
SS-9@6"	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.071	3.06	
SS-10@6"	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0525	5.87	
SS-11@6"	<0.005	0.0143	<0.005	<0.005	<0.005	<0.005	0.156	4.76	
BH-1@3'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.262	3.51	
BH-2@3'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.334	4.61	
BH-2@4'	NA	NA	NA	NA	NA	NA	<0.0989	2.93	
SW-1@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.376	3.13	
SW-2@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.339	4.45	
SW-3@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.333	3.70	
SW-4@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.378	3.27	
SW-5@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.298	3.84	
SW-6@2'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	0.201	3.65	
SW-7@2'	NA	NA	NA	NA	NA	NA	0.308	4.68	
SW-8@2'	NA	NA	NA	NA	NA	NA	0.146	3.52	

Notes:  
 COGCC - Colorado Oil and  
 DRO - diesel range organic  
 ORO - oil range organics (t  
 mg/kg - milligrams per kilo  
 mg/L - milligrams per liter  
 mmhos/cm - millimhos pe  
 NL - Not Listed  
 NA- Not Analyzed  
 TPH - total petroleum hyd  
 < - Indicates analytical resi  
**RED font** - indicates the si  
 Origins Laboratory, Inc. list

<b>Wolf 35-26</b>								
<b>Residential Soil</b>	<b>barium</b>	<b>cadmium</b>	<b>copper</b>	<b>lead</b>	<b>nickel</b>	<b>selenium</b>	<b>silver</b>	<b>zinc</b>
COGCC Table 915-1 Concentration	15000	71	3100	400	1500	390	390	23000
Background *1.25	523.75	0.39	14.75	15.125	<9.43	0.25	<0.0943	<94.3
Units	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
Sample	barium	cadmium	copper	lead	nickel	selenium	silver	zinc
BACKGROUND-1@2'	380	0.211	10.2	12.1	<9.11	0.201	<0.0911	<91.1
BACKGROUND-1@4'	306	0.208	<9.43	<9.43	<9.43	0.138	<0.0943	<94.3
BACKGROUND-2@2'	385	0.202	11.8	<9.42	<9.42	<0.0942	<0.0942	<94.2
BACKGROUND-2@4'	290	0.218	10.5	9.75	<8.89	0.164	<0.0889	<88.9
BACKGROUND-3@2'	333	0.180	9.81	9.02	<8.93	0.0991	<0.0893	<89.3
BACKGROUND-3@4'	338	0.309	10.8	11.7	<9.26	0.149	<0.0926	<92.6
BACKGROUND-4@2'	371	0.297	11	10.6	<8.60	<0.0860	<0.0860	<86.0
BACKGROUND-4@4'	419	0.236	11.2	<9.07	<9.07	<0.0907	<0.0907	<90.7
Source Sample 1@1'	85.4	<0.21	5.19	3.29	3.27	<0.26	<0.021	14.4
SS-1@6"	558	0.341	6.5	6.11	3.1	<0.26	<0.0221	15.2
SS-2@6"	824	0.388	6.51	6.23	3.24	0.18	0.023	16
SS-3@6"	785	0.410	6.1	9.46	3.39	<0.26	0.0225	16.2
SS-4@6"	519	0.433	4.93	7.48	3	<0.26	<0.0235	15.8
SS-5@6"	306	0.234	4.43	4.84	2.35	<0.26	<0.0208	11.1
SS-6@6"	647	0.406	7.48	8.84	3.33	0.176	0.0233	17
SS-7@6"	785	0.489	6.04	7.22	3.12	<0.26	<0.0254	16.4
SS-8@6"	698	0.345	7.34	6.35	3.27	<0.26	<0.0246	18.2
SS-9@6"	984	0.391	10.7	9.06	3.31	<0.26	<0.0224	22.2
SS-10@6"	1110	0.407	8.86	9.74	4.6	0.233	0.0367	21.4
SS-11@6"	379	0.602	5.37	8.13	3.05	<0.26	<0.025	17.2
BH-1@3'	281	0.182	10	<8.88	<8.88	0.0915	<0.0888	<88.8
BH-2@3'	1410	0.225	12.4	14.9	<9.65	0.203	<0.0965	<96.5
BH-2@4'	269	0.124	<9.02	<9.02	<9.02	0.106	<0.0902	<90.2
SW-1@2'	278	0.194	10.2	9.13	<8.43	0.17	<0.0843	<84.3
SW-2@2'	254	0.227	11.2	<9.23	<9.23	0.187	<0.0923	<92.3
SW-3@2'	356	0.208	11.1	<9.97	<9.97	0.154	<0.0997	<99.7
SW-4@2'	404	0.219	10.5	10.2	<9.49	0.174	<0.0949	<94.9
SW-5@2'	265	0.207	11.3	10.1	<9.18	0.141	<0.0918	<91.8
SW-6@2'	709	0.241	12.2	9.05	<8.98	0.189	<0.0898	<89.8
SW-7@2'	770	0.231	11.3	10.4	<9.26	0.180	<0.0926	<92.6
SW-8@2'	240	0.407	<8.88	<8.88	<8.88	<0.0888	<0.0888	<88.8

Notes:  
 COGCC - Colorado Oil and  
 DRO - diesel range organic  
 ORO - oil range organics (t  
 mg/kg - milligrams per kilo  
 mg/L - milligrams per liter  
 mmhos/cm - millimhos pe  
 NL - Not Listed  
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Wolf 35-26								
	chromium (Hexavalent)	Calcium	Magnesium	Sodium	Sodium Adsorption Ratio	% Solids	Specific Conductance (EC)	pH
Residential Soil								
COGCC Table 915-1 Concentration	0.3	NL	NL	NL	6	NL	4	6 to 8.3
Background *1.25	<0.5	NL	NL	NL	4.86	NL	1.14	8.36
Units	mg/kg dry	mg/L dry	mg/L dry	mg/L dry	Units	%	mmhos/cm	pH units
Sample	chromium (Hexavalent)	Calcium	Magnesium	Sodium	Sodium Adsorption Ratio	% Solids	Specific Conductance (EC)	pH
BACKGROUND-1@2'	<0.501	69.739	<10	67.82	2.05	NL	0.752	8.36
BACKGROUND-1@4'	<0.508	59.118	10.093	73.338	2.32	NL	0.722	8.27
BACKGROUND-2@2'	<0.5	40.481	<10	87.822	3.29	NL	0.651	8.34
BACKGROUND-2@4'	<0.5	81.162	<10	84.373	2.36	NL	0.853	7.99
BACKGROUND-3@2'	<0.5	71.342	12.063	83.224	2.40	NL	0.798	8.20
BACKGROUND-3@4'	<0.517	126.252	18.483	80.465	1.77	NL	1.14	8.17
BACKGROUND-4@2'	<0.5	52.104	<10	145.757	4.86	NL	1.06	8.26
BACKGROUND-4@4'	<0.5	41.082	<10	122.537	4.65	NL	0.821	8.35
Source Sample 1@1'	<0.3	39.6	4.69	235	9.41	95.1	1.64	7.20
SS-1@6"	<0.3	260	32.5	426	6.64	90.4	2.36	7.62
SS-2@6"	<0.3	219	30.8	40	0.671	90.3	1.52	7.69
SS-3@6"	<0.3	172	28.1	20.3	0.378	88.9	4.44	7.61
SS-4@6"	<0.3	29.4	6.35	45.2	1.97	85.2	0.952	7.83
SS-5@6"	<0.3	37.2	6.93	81.7	3.23	95.9	0.742	8.57
SS-6@6"	<0.3	108	16.2	247	5.86	87.5	1.02	7.87
SS-7@6"	<0.3	90.3	12.8	173	4.52	78.8	0.48	8.24
SS-8@6"	<0.3	187	31	574	10.2	81.4	1.33	7.50
SS-9@6"	<0.3	127	10.5	82	1.88	89.1	0.998	7.47
SS-10@6"	<0.3	1150	28.7	168	1.34	78.5	1.02	7.68
SS-11@6"	<0.3	262	10.5	151	2.49	79.9	0.457	8.35
BH-1@3'	<0.5	117.034	23.104	114.26	2.53	NL	1.36	7.97
BH-2@3'	<0.502	28.457	<10	174.494	8.15	NL	0.952	8.28
BH-2@4'	<0.5	100	18.97	113.8	2.74	NL	1.37	8.10
SW-1@2'	<0.508	133.266	15.93	271.282	5.91	NL	2.22	7.83
SW-2@2'	<0.5	<10	<10	10.851	3.03	NL	0.706	8.68
SW-3@2'	<0.5	155.31	24.198	480.491	9.47	NL	3.33	7.90
SW-4@2'	<0.513	52.505	<10	59.544	2.05	NL	0.675	8.02
SW-5@2'	<0.5	61.523	<10	41.842	1.36	NL	0.6	8.01
SW-6@2'	<0.503	29.459	<10	20.3	0.949	NL	0.279	8.16
SW-7@2'	<0.5	38.878	<10	74.028	2.88	NL	0.683	8.21
SW-8@2'	<0.5	46.693	<10	57.935	2.04	NL	0.659	8.19

Notes:  
COGCC - Colorado Oil and  
DRO - diesel range organic  
ORO - oil range organics (t  
mg/kg - milligrams per kilo  
mg/L - milligrams per liter  
mmhos/cm - millimhos pe  
NL - Not Listed  
NA- Not Analyzed  
TPH - total petroleum hyd  
< - Indicates analytical resi  
**RED font** - indicates the ss  
Origins Laboratory, Inc. list

## **Attachment 3**

### **Analytical Report**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 24, 2023

Levi Kirk

Fundare

1811 East Mulberry St

Fort Collins, CO 80525

RE: Wolf 35-2613H

Work Order #2304189

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury  
President



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source Sample 1@1'	2304189-01	Soil	04/10/23 10:30	04/10/23 16:30

Summit Scientific

*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.*



# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2304189	

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: MarCom LLC	Project Manager: Levi Kirk	Company: Fundare
Address: 1613 Prospect Parkway Suit 120	E-Mail: Lkirk@MarComllc.net	Project Name/Location: Wolf 35-2613H
City/State/Zip: Ft Collins, CO. 80524	fundare2@MarComllc.net	AFE#:
Phone: 970.237.1415	Project Name: Wolf 35-2613H	PO/Billing Codes:
Sampler Name: CPX ES	Project Number: 411A	Contact:

				Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other								
1	Source Sample 1 e 1'	04.10.23	1030	2		X				X			X							
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<del>John Doe</del>	04.10.23 1445			Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
SZ	41023 1030		41023 1030	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	x Field Turb.	
Temperature Upon Receipt: 11.7		Corrected Temperature 6		IR gun #:	HNO3 lot #:	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2304189Client: MarcomClient Project ID: Wolf 35-2613HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☐Other ☐

Temp (°C)

11.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>none</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
AS  
Custodian Printed Name

4/10/23  
Date/Time



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Source Sample 1@1'**  
**2304189-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	3.3	0.20	mg/kg	100	BGD0394	04/12/23	04/14/23	EPA 8260B	
Toluene	43	0.50	"	"	"	"	"	"	
Ethylbenzene	30	0.50	"	"	"	"	"	"	
Xylenes (total)	81	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	31	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	7.6	0.50	"	"	"	"	"	"	
Naphthalene	8.3	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3000	50	"	"	"	"	"	"	

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0527	132 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	15000	50	mg/kg	1	BGD0395	04/12/23	04/15/23	EPA 8015M	
C28-C36 (ORO)	2900	50	"	"	"	"	"	"	

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	23.8	190 %	30-150		"	"	"	"	S-02

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Source Sample 1@1'**  
**2304189-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BGD0359	04/12/23	04/13/23	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.338</b>	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>1.31</b>	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>4.24</b>	0.0500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>7.73</b>	0.0500	"	"	"	"	"	"	E

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%	40-150		"	"	"	"	S-01

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.674</b>	0.0100	mg/L	1	BGD0375	04/12/23	04/19/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Source Sample 1@1'**  
**2304189-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.87	0.210	mg/kg dry	1	BGD0335	04/13/23	04/18/23	EPA 6020B
Barium	85.4	0.421	"	"	"	"	"	"
Cadmium	ND	0.210	"	"	"	"	"	"
Copper	5.19	0.421	"	"	"	"	"	"
Lead	3.29	0.210	"	"	"	"	"	"
Nickel	3.27	0.421	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0210	"	"	"	"	"	"
Zinc	14.4	0.421	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.6	0.0526	mg/L dry	1	BGD0478	04/16/23	04/21/23	EPA 6020B	
Magnesium	4.69	0.0526	"	"	"	"	"	"	
Sodium	235	0.0526	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.41	0.00100	units	1	BGD0731	04/22/23	04/22/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Source Sample 1@1'**  
**2304189-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGD0340	04/11/23	04/12/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.64	0.0100	mmhos/cm	1	BGD0519	04/17/23	04/17/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/10/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.20		pH Units	1	BGD0518	04/17/23	04/17/23	EPA 9045D	

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BGD0394 - EPA 5030 Soil MS

##### Blank (BGD0394-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

##### LCS (BGD0394-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0834	0.0020	mg/kg	0.100		83.4	70-130			
Toluene	0.0885	0.0050	"	0.100		88.5	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.204	0.010	"	0.200		102	70-130			
o-Xylene	0.0971	0.0050	"	0.100		97.1	70-130			
1,2,4-Trimethylbenzene	0.0995	0.0050	"	0.100		99.5	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0788	0.0038	"	0.100		78.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.3	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

##### Matrix Spike (BGD0394-MS1)

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/13/23

Benzene	0.0899	0.0020	mg/kg	0.100	ND	89.9	70-130			
Toluene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.214	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.0895	0.0038	"	0.100	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.1	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0394 - EPA 5030 Soil MS**

Matrix Spike Dup (BGD0394-MSD1)		Source: 2304179-01			Prepared: 04/12/23 Analyzed: 04/13/23					
Benzene	0.0879	0.0020	mg/kg	0.100	ND	87.9	70-130	2.19	30	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130	2.88	30	
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	0.0816	30	
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130	0.964	30	
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130	0.351	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.196	30	
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	0.800	30	
Naphthalene	0.0868	0.0038	"	0.100	ND	86.8	70-130	3.03	30	
Surrogate: 1,2-Dichloroethane-d4		0.0360	"	0.0400		89.9	50-150			
Surrogate: Toluene-d8		0.0399	"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene		0.0389	"	0.0400		97.3	50-150			

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1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0395 - EPA 3550A**

**Blank (BGD0395-BLK1)**

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

**LCS (BGD0395-BS1)**

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	460	50	mg/kg	500		91.9	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

**Matrix Spike (BGD0395-MS1)**

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	416	50	mg/kg	500	27.5	77.7	70-130			
Surrogate: o-Terphenyl	12.5		"	12.5		99.9	30-150			

**Matrix Spike Dup (BGD0395-MSD1)**

Source: 2304179-01

Prepared: 04/12/23 Analyzed: 04/15/23

C10-C28 (DRO)	404	50	mg/kg	500	27.5	75.2	70-130	2.99	20	
Surrogate: o-Terphenyl	11.1		"	12.5		88.6	30-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BGD0359 - EPA 5030 Soil MS

##### Blank (BGD0359-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0224		"	0.0333		67.1	40-150			
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.5	40-150			

##### LCS (BGD0359-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0287	0.00500	mg/kg	0.0333		86.1	31-137			
Anthracene	0.0245	0.00500	"	0.0333		73.5	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333		65.3	30-120			
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.5	30-120			
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333		69.8	30-120			
Benzo (k) fluoranthene	0.0186	0.00500	"	0.0333		55.8	30-120			
Chrysene	0.0176	0.00500	"	0.0333		52.9	30-120			
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333		60.5	30-120			
Fluoranthene	0.0233	0.00500	"	0.0333		69.9	30-120			
Fluorene	0.0255	0.00500	"	0.0333		76.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333		81.0	30-120			
Pyrene	0.0169	0.00500	"	0.0333		50.8	35-142			
1-Methylnaphthalene	0.0214	0.00500	"	0.0333		64.1	35-142			
2-Methylnaphthalene	0.0275	0.00500	"	0.0333		82.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.8	40-150			
Surrogate: Fluoranthene-d10	0.0291		"	0.0333		87.4	40-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGD0359 - EPA 5030 Soil MS

##### Matrix Spike (BGD0359-MS1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137			
Anthracene	0.0188	0.00500	"	0.0333	ND	56.3	30-120			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	0.00103	44.4	30-120			
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.0	30-120			
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120			
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120			
Chrysene	0.0141	0.00500	"	0.0333	0.000583	40.5	30-120			
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Fluorene	0.0200	0.00500	"	0.0333	ND	60.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120			
Pyrene	0.0151	0.00500	"	0.0333	ND	45.3	35-142			
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130			
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.7	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.5	40-150			
Surrogate: Fluoranthene-d10	0.0367		"	0.0333		110	40-150			

##### Matrix Spike Dup (BGD0359-MSD1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	31-137	0.594	30	
Anthracene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	0.910	30	
Benzo (a) anthracene	0.0165	0.00500	"	0.0333	0.00103	46.3	30-120	3.89	30	
Benzo (a) pyrene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	9.93	30	
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	12.2	30	
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	15.7	30	
Chrysene	0.0134	0.00500	"	0.0333	0.000583	38.5	30-120	4.80	30	
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	11.7	30	
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	0.458	30	
Fluorene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	0.747	30	
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	19.7	30	
Pyrene	0.0164	0.00500	"	0.0333	ND	49.2	35-142	8.16	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	12.1	50	
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130	3.74	50	
Surrogate: 2-Methylnaphthalene-d10	0.0178		"	0.0333		53.4	40-150			
Surrogate: Fluoranthene-d10	0.0267		"	0.0333		80.1	40-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGD0375 - EPA 3050B**

**Blank (BGD0375-BLK1)**

Prepared: 04/12/23 Analyzed: 04/18/23

Boron ND 0.0100 mg/L

**LCS (BGD0375-BS1)**

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.63 0.0100 mg/L 5.00 113 80-120

**Duplicate (BGD0375-DUP1)**

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 0.0949 0.0100 mg/L 0.101 6.15 20

**Matrix Spike (BGD0375-MS1)**

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.52 0.0100 mg/L 5.00 0.101 108 75-125

**Matrix Spike Dup (BGD0375-MSD1)**

Source: 2304175-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 5.54 0.0100 mg/L 5.00 0.101 109 75-125 0.343 25

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0335 - EPA 3050B**

**Blank (BGD0335-BLK1)**

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BGD0335-BS1)**

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	39.7	0.200	mg/kg wet	40.0	99.2	80-120
Barium	39.8	0.400	"	40.0	99.6	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	43.3	0.400	"	40.0	108	80-120
Lead	21.6	0.200	"	20.0	108	80-120
Nickel	41.8	0.400	"	40.0	105	80-120
Selenium	4.64	0.260	"	4.00	116	80-120
Silver	2.01	0.0200	"	2.00	101	80-120
Zinc	42.3	0.400	"	40.0	106	80-120

**Duplicate (BGD0335-DUP1)**

Source: 2304175-01

Prepared: 04/13/23 Analyzed: 04/18/23

Arsenic	0.958	0.212	mg/kg dry	0.916	4.48	20
Barium	34.6	0.424	"	33.4	3.47	20
Cadmium	0.120	0.212	"	0.115	3.61	20
Copper	2.58	0.424	"	2.56	0.857	20
Lead	4.36	0.212	"	4.25	2.63	20
Nickel	2.87	0.424	"	2.89	0.839	20
Selenium	ND	0.260	"	ND		20
Silver	0.0195	0.0212	"	0.0191	2.20	20
Zinc	11.6	0.424	"	11.6	0.176	20

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0335 - EPA 3050B**

Matrix Spike (BGD0335-MS1)			Source: 2304175-01		Prepared: 04/13/23 Analyzed: 04/18/23					
Arsenic	43.1	0.212	mg/kg dry	42.4	0.916	99.4	75-125			
Barium	76.4	0.424	"	42.4	33.4	101	75-125			
Cadmium	2.25	0.212	"	2.12	0.115	100	75-125			
Copper	37.0	0.424	"	42.4	2.56	81.3	75-125			
Lead	25.6	0.212	"	21.2	4.25	101	75-125			
Nickel	36.2	0.424	"	42.4	2.89	78.6	75-125			
Selenium	4.85	0.260	"	4.24	ND	114	75-125			
Silver	2.14	0.0212	"	2.12	0.0191	99.9	75-125			
Zinc	45.4	0.424	"	42.4	11.6	79.6	75-125			

Matrix Spike Dup (BGD0335-MSD1)			Source: 2304175-01		Prepared: 04/13/23 Analyzed: 04/18/23					
Arsenic	43.0	0.212	mg/kg dry	42.4	0.916	99.3	75-125	0.143	25	
Barium	77.0	0.424	"	42.4	33.4	103	75-125	0.700	25	
Cadmium	2.30	0.212	"	2.12	0.115	103	75-125	2.37	25	
Copper	37.1	0.424	"	42.4	2.56	81.4	75-125	0.139	25	
Lead	25.6	0.212	"	21.2	4.25	101	75-125	0.156	25	
Nickel	36.4	0.424	"	42.4	2.89	78.9	75-125	0.397	25	
Selenium	4.93	0.260	"	4.24	ND	116	75-125	1.55	25	
Silver	2.15	0.0212	"	2.12	0.0191	101	75-125	0.791	25	
Zinc	45.7	0.424	"	42.4	11.6	80.4	75-125	0.711	25	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0457 - 3060A Mod**

**Blank (BGD0457-BLK1)**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGD0457-BS1)**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

**Duplicate (BGD0457-DUP1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGD0457-MS1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.3 ND 93.0 75-125

**Matrix Spike Dup (BGD0457-MSD1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 26.3 ND 93.4 75-125 0.429 20

Summit Scientific

*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.*





Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BGD0478 - General Preparation**

**Blank (BGD0478-BLK1)**

Prepared: 04/16/23 Analyzed: 04/21/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BGD0478-BS1)**

Prepared: 04/16/23 Analyzed: 04/21/23

Calcium	5.90	0.0500	mg/L wet	5.00	118	70-130
Magnesium	4.93	0.0500	"	5.00	98.6	70-130
Sodium	4.93	0.0500	"	5.00	98.6	70-130

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

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

**Batch BGD0340 - General Preparation**

Duplicate (BGD0340-DUP1)		Source: 2304181-01		Prepared: 04/11/23 Analyzed: 04/12/23	
% Solids	86.5		%	86.0	0.559 20

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGD0519 - General Preparation**

**Blank (BGD0519-BLK1)**

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGD0519-BS1)**

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.2 95-105

**Duplicate (BGD0519-DUP1)**

**Source: 2304181-01**

Prepared & Analyzed: 04/17/23

Specific Conductance (EC) 0.486 0.0100 mmhos/cm 0.492 1.33 20

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BGD0518 - General Preparation**

**LCS (BGD0518-BS1)**

Prepared & Analyzed: 04/17/23

pH	8.95	pH Units	9.18	97.5	95-105
----	------	----------	------	------	--------

**Duplicate (BGD0518-DUP1)**

Source: 2304181-01

Prepared & Analyzed: 04/17/23

pH	7.82	pH Units	7.78	0.513	20
----	------	----------	------	-------	----

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/24/23 16:27

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 26, 2023

Levi Kirk

Fundare

1811 East Mulberry St

Fort Collins, CO 80525

RE: Wolf 35-2613H

Work Order #2304257

Enclosed are the results of analyses for samples received by Summit Scientific on 04/12/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1@6"	2304257-01	Soil	04/11/23 13:00	04/12/23 16:30
SS-2@6"	2304257-02	Soil	04/11/23 13:02	04/12/23 16:30
SS-3@6"	2304257-03	Soil	04/11/23 13:04	04/12/23 16:30
SS-4@6"	2304257-04	Soil	04/11/23 13:06	04/12/23 16:30
SS-5@6"	2304257-05	Soil	04/11/23 13:08	04/12/23 16:30
SS-6@6"	2304257-06	Soil	04/11/23 13:10	04/12/23 16:30
SS-7@6"	2304257-07	Soil	04/11/23 13:12	04/12/23 16:30
SS-8@6"	2304257-08	Soil	04/11/23 13:14	04/12/23 16:30
SS-9@6"	2304257-09	Soil	04/11/23 13:16	04/12/23 16:30
SS-10@6"	2304257-10	Soil	04/11/23 13:18	04/12/23 16:30
SS-11@6"	2304257-11	Soil	04/11/23 13:20	04/12/23 16:30

Summit Scientific

*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.*



# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2304257	

Client: MarCom LLC					Send Data To:					Send Invoice To:								
Address: 1613 Prospect Parkway Suit 120					Project Manager: Levi Kirk					Company: Fundare								
City/State/Zip: Ft Collins, CO. 80524					E-Mail: Lkirk@MarComllc.net					Project Name/Location:								
Phone: 970.237.1415					fundare2@MarComllc.net					AFE#:								
Sampler Name: ESB CP					Project Name: WOLF 35-2613H					PO/Billing Codes:								
					Project Number:					Contact:								
ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other						
1	SS-1 @ 6"	4/11/23	13:00	2			X			X			X					
2	SS-2 @ 6"	4/11/23	13:02	2			X			X			X					
3	SS-3 @ 6"	4/11/23	13:04	2			X			X			X					
4	SS-4 @ 6"	4/11/23	13:06	2			X			X			X					
5	SS-5 @ 6"	4/11/23	13:08	2			X			X			X					
6	SS-6 @ 6"	4/11/23	13:10	2			X			X			X					
7	SS-7 @ 6"	4/11/23	13:12	2			X			X			X					
8	SS-8 @ 6"	4/11/23	13:14	2			X			X			X					
9	SS-9 @ 6"	4/11/23	13:16	2			X			X			X					
10	SS-10 @ 6"	4/11/23	13:18	2			X			X			X					
11	SS-11 @ 6"	4/11/23	13:20	2			X			X			X					
12																		
13																		
14																		
15																		
Relinquished by: E. J. Schröder		Date/Time: 4/11/23 16:00		Received by:		Date/Time:		TAT Business Days		Field DO		Notes:						
Relinquished by: 52		Date/Time: 4/12/23 1630		Received by:		Date/Time: 4/12/23 1630		Same Day		Field EC								
								1 Day		Field ORP								
								2 Days		Field pH								
								3 Days		Field Temp.								
Relinquished by:		Date/Time:		Received by:		Date/Time:		Standard		x		Field Turb.						
Temperature Upon Receipt: 9.1				Corrected Temperature: 9				IR gun #: 1				HNO3 lot #:						

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2304257Client: marcom Client Project ID: Wolf 35-2613 HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 9.1 Thermometer # 7

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOTE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS  
Custodian Printed Name

4/12/23  
Date/Time



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-1@6"**  
**2304257-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.74	37.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-1@6"**  
**2304257-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00558</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0147</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0517</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0397</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0604</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-1@6"**  
**2304257-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.78	0.221	mg/kg dry	1	BGD0557	04/18/23	04/23/23	EPA 6020B
Barium	558	0.443	"	"	"	"	"	"
Cadmium	0.341	0.221	"	"	"	"	"	"
Copper	6.50	0.443	"	"	"	"	"	"
Lead	6.11	0.221	"	"	"	"	"	"
Nickel	3.10	0.443	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0221	"	"	"	"	"	"
Zinc	15.2	0.443	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	260	0.0553	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	32.5	0.0553	"	"	"	"	"	"	
Sodium	426	0.0553	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.64	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

*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.*



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-1@6"**  
**2304257-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	90.4			%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.36	0.0100		mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.62			pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-2@6"**  
**2304257-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0441	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.78	46.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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.





Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-2@6"**  
**2304257-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00531</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0217</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0165</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0564</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-2@6"**  
**2304257-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.43	0.222	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	824	0.443	"	"	"	"	"	"
Cadmium	0.388	0.222	"	"	"	"	"	"
Copper	6.51	0.443	"	"	"	"	"	"
Lead	6.23	0.222	"	"	"	"	"	"
Nickel	3.24	0.443	"	"	"	"	"	"
Selenium	0.180	0.260	"	"	"	"	"	"
Silver	0.0230	0.0222	"	"	"	"	"	"
Zinc	16.0	0.443	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	219	0.0554	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	30.8	0.0554	"	"	"	"	"	"	
Sodium	40.0	0.0554	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.671	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-2@6"**  
**2304257-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	90.3	%	1	BGD0469	04/14/23	04/16/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-3@6"**  
**2304257-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	91.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-3@6"**  
**2304257-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0720</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-3@6"**  
**2304257-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.23	0.225	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	785	0.450	"	"	"	"	"	"
Cadmium	0.410	0.225	"	"	"	"	"	"
Copper	6.10	0.450	"	"	"	"	"	"
Lead	9.46	0.225	"	"	"	"	"	"
Nickel	3.39	0.450	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	0.0225	0.0225	"	"	"	"	"	"
Zinc	16.2	0.450	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	172	0.0562	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	28.1	0.0562	"	"	"	"	"	"	
Sodium	20.3	0.0562	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.378	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-3@6"**  
**2304257-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	88.9	%	1	BGD0469	04/14/23	04/16/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.44	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-4@6"**  
**2304257-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.2	114 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-4@6"**  
**2304257-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0442</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-4@6"**  
**2304257-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.00	0.235	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	519	0.469	"	"	"	"	"	"
Cadmium	0.433	0.235	"	"	"	"	"	"
Copper	4.93	0.469	"	"	"	"	"	"
Lead	7.48	0.235	"	"	"	"	"	"
Nickel	3.00	0.469	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0235	"	"	"	"	"	"
Zinc	15.8	0.469	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.4	0.0587	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	6.35	0.0587	"	"	"	"	"	"	
Sodium	45.2	0.0587	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.97	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-4@6"**  
**2304257-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.952	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-5@6"**  
**2304257-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0438	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.3	130 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-5@6"**  
**2304257-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0445</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-5@6"**  
**2304257-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.42	0.208	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	306	0.417	"	"	"	"	"	"
Cadmium	0.234	0.208	"	"	"	"	"	"
Copper	4.43	0.417	"	"	"	"	"	"
Lead	4.84	0.208	"	"	"	"	"	"
Nickel	2.35	0.417	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0208	"	"	"	"	"	"
Zinc	11.1	0.417	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.2	0.0521	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	6.93	0.0521	"	"	"	"	"	"	
Sodium	81.7	0.0521	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.23	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-5@6"**  
**2304257-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.742	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-6@6"**  
**2304257-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.43	67.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-6@6"**  
**2304257-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.00897</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00744</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0719</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-6@6"**  
**2304257-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.54	0.229	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	647	0.457	"	"	"	"	"	"
Cadmium	0.406	0.229	"	"	"	"	"	"
Copper	7.48	0.457	"	"	"	"	"	"
Lead	8.84	0.229	"	"	"	"	"	"
Nickel	3.33	0.457	"	"	"	"	"	"
Selenium	0.176	0.260	"	"	"	"	"	"
Silver	0.0233	0.0229	"	"	"	"	"	"
Zinc	17.0	0.457	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	108	0.0572	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	16.2	0.0572	"	"	"	"	"	"	
Sodium	247	0.0572	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.86	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-6@6"**  
**2304257-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	87.5	%	1	BGD0469	04/14/23	04/16/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-7@6"**  
**2304257-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.06	72.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-7@6"**  
**2304257-07 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0108</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.8 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0888</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

#### Total Metals by EPA 6020B

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-7@6"**  
**2304257-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.54	0.254	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	785	0.508	"	"	"	"	"	"
Cadmium	0.489	0.254	"	"	"	"	"	"
Copper	6.04	0.508	"	"	"	"	"	"
Lead	7.22	0.254	"	"	"	"	"	"
Nickel	3.12	0.508	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0254	"	"	"	"	"	"
Zinc	16.4	0.508	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	90.3	0.0635	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	12.8	0.0635	"	"	"	"	"	"	
Sodium	173	0.0635	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.52	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

*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.*



Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-7@6"**  
**2304257-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	78.8			%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.480	0.0100		mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.24			pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-8@6"**  
**2304257-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.92	63.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-8@6"**  
**2304257-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.107</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-8@6"**  
**2304257-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.90	0.246	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	698	0.492	"	"	"	"	"	"
Cadmium	0.345	0.246	"	"	"	"	"	"
Copper	7.34	0.492	"	"	"	"	"	"
Lead	6.35	0.246	"	"	"	"	"	"
Nickel	3.27	0.492	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0246	"	"	"	"	"	"
Zinc	18.2	0.492	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	187	0.0615	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	31.0	0.0615	"	"	"	"	"	"	
Sodium	574	0.0615	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.2	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-8@6"**  
**2304257-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	81.4			%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.33	0.0100		mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.50			pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-9@6"**  
**2304257-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	540	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	350	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.86	62.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

**Z-01**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-9@6"**  
**2304257-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**Z-01**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	ND	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0337	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0710</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-9@6"**  
**2304257-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.06	0.224	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	984	0.449	"	"	"	"	"	"
Cadmium	0.391	0.224	"	"	"	"	"	"
Copper	10.7	0.449	"	"	"	"	"	"
Lead	9.06	0.224	"	"	"	"	"	"
Nickel	3.31	0.449	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0224	"	"	"	"	"	"
Zinc	22.2	0.449	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	127	0.0561	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	10.5	0.0561	"	"	"	"	"	"	
Sodium	82.0	0.0561	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-9@6"**  
**2304257-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.998	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-10@6"**  
**2304257-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-10@6"**  
**2304257-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0525</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-10@6"**  
**2304257-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.87	0.255	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	1110	0.510	"	"	"	"	"	"
Cadmium	0.407	0.255	"	"	"	"	"	"
Copper	8.86	0.510	"	"	"	"	"	"
Lead	9.74	0.255	"	"	"	"	"	"
Nickel	4.60	0.510	"	"	"	"	"	"
Selenium	0.233	0.260	"	"	"	"	"	"
Silver	0.0367	0.0255	"	"	"	"	"	"
Zinc	21.4	0.510	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1150	0.0637	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	28.7	0.0637	"	"	"	"	"	"	
Sodium	168	0.0637	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-10@6"**  
**2304257-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	78.5	%	1	BGD0469	04/14/23	04/16/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

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Fundare  
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Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-11@6"**  
**2304257-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0522	04/17/23	04/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	110	50	mg/kg	1	BGD0524	04/17/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	50	50	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.60	76.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-11@6"**  
**2304257-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0445	04/14/23	04/15/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0135</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0143</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0267	80.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0270	81.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.156</b>	0.0100	mg/L	1	BGD0451	04/14/23	04/22/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-11@6"**  
**2304257-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.76	0.250	mg/kg dry	1	BGD0557	04/18/23	04/24/23	EPA 6020B
Barium	379	0.501	"	"	"	"	"	"
Cadmium	0.602	0.250	"	"	"	"	"	"
Copper	5.37	0.501	"	"	"	"	"	"
Lead	8.13	0.250	"	"	"	"	"	"
Nickel	3.05	0.501	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"
Silver	ND	0.0250	"	"	"	"	"	"
Zinc	17.2	0.501	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGD0457	04/14/23	04/14/23	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	262	0.0626	mg/L dry	1	BGD0582	04/18/23	04/20/23	EPA 6020B	
Magnesium	10.5	0.0626	"	"	"	"	"	"	
Sodium	151	0.0626	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100	units	1	BGD0698	04/21/23	04/21/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**SS-11@6"**  
**2304257-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.9		%	1	BGD0469	04/14/23	04/16/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.457	0.0100	mmhos/cm	1	BGD0607	04/19/23	04/19/23	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/11/23 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BGD0603	04/19/23	04/19/23	EPA 9045D	

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BGD0522 - EPA 5030 Soil MS

##### Blank (BGD0522-BLK1)

Prepared & Analyzed: 04/17/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

##### LCS (BGD0522-BS1)

Prepared & Analyzed: 04/17/23

Benzene	0.0877	0.0020	mg/kg	0.100		87.7	70-130			
Toluene	0.0924	0.0050	"	0.100		92.4	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
Naphthalene	0.0813	0.0038	"	0.100		81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.8	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

##### Matrix Spike (BGD0522-MS1)

Source: 2304257-01

Prepared & Analyzed: 04/17/23

Benzene	0.0824	0.0020	mg/kg	0.100	ND	82.4	70-130			
Toluene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
Ethylbenzene	0.0999	0.0050	"	0.100	ND	99.9	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.0	70-130			
o-Xylene	0.0962	0.0050	"	0.100	ND	96.2	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
Naphthalene	0.0886	0.0038	"	0.100	ND	88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.3	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0522 - EPA 5030 Soil MS**

Matrix Spike Dup (BGD0522-MSD1)	Source: 2304257-01			Prepared & Analyzed: 04/17/23						
Benzene	0.0865	0.0020	mg/kg	0.100	ND	86.5	70-130	4.80	30	
Toluene	0.0940	0.0050	"	0.100	ND	94.0	70-130	6.49	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	5.75	30	
m,p-Xylene	0.207	0.010	"	0.200	ND	103	70-130	5.27	30	
o-Xylene	0.0999	0.0050	"	0.100	ND	99.9	70-130	3.70	30	
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	2.70	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	4.44	30	
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130	3.79	30	
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0524 - EPA 3550A**

**Blank (BGD0524-BLK1)**

Prepared & Analyzed: 04/17/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

**LCS (BGD0524-BS1)**

Prepared & Analyzed: 04/17/23

C10-C28 (DRO)	399	50	mg/kg	500		79.7	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		91.9	30-150			

**Matrix Spike (BGD0524-MS1)**

Source: 2304257-01

Prepared & Analyzed: 04/17/23

C10-C28 (DRO)	351	50	mg/kg	500	ND	70.2	70-130			
Surrogate: o-Terphenyl	5.75		"	12.5		46.0	30-150			

**Matrix Spike Dup (BGD0524-MSD1)**

Source: 2304257-01

Prepared & Analyzed: 04/17/23

C10-C28 (DRO)	354	50	mg/kg	500	ND	70.9	70-130	1.03	20	
Surrogate: o-Terphenyl	5.14		"	12.5		41.1	30-150			

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H  
Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGD0445 - EPA 5030 Soil MS

##### Blank (BGD0445-BLK1)

Prepared: 04/14/23 Analyzed: 04/15/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0356		"	0.0333		107	40-150			
Surrogate: Fluoranthene-d10	0.0306		"	0.0333		91.7	40-150			

##### LCS (BGD0445-BS1)

Prepared: 04/14/23 Analyzed: 04/15/23

Acenaphthene	0.0299	0.00500	mg/kg	0.0333		89.8	31-137			
Anthracene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.7	30-120			
Benzo (a) pyrene	0.0239	0.00500	"	0.0333		71.7	30-120			
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333		71.2	30-120			
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333		68.7	30-120			
Chrysene	0.0197	0.00500	"	0.0333		59.1	30-120			
Dibenz (a,h) anthracene	0.0249	0.00500	"	0.0333		74.6	30-120			
Fluoranthene	0.0294	0.00500	"	0.0333		88.1	30-120			
Fluorene	0.0292	0.00500	"	0.0333		87.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0240	0.00500	"	0.0333		72.0	30-120			
Pyrene	0.0238	0.00500	"	0.0333		71.3	35-142			
1-Methylnaphthalene	0.0333	0.00500	"	0.0333		99.9	35-142			
2-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0329		"	0.0333		98.6	40-150			
Surrogate: Fluoranthene-d10	0.0318		"	0.0333		95.5	40-150			

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1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGD0445 - EPA 5030 Soil MS

##### Matrix Spike (BGD0445-MS1)

Source: 2304290-01

Prepared: 04/14/23 Analyzed: 04/15/23

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.5	31-137		
Anthracene	0.0188	0.00500	"	0.0333	ND	56.5	30-120		
Benzo (a) anthracene	0.0139	0.00500	"	0.0333	ND	41.7	30-120		
Benzo (a) pyrene	0.0161	0.00500	"	0.0333	ND	48.3	30-120		
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	41.9	30-120		
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.9	30-120		
Chrysene	0.0147	0.00500	"	0.0333	ND	44.2	30-120		
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333	ND	47.3	30-120		
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	30-120		
Fluorene	0.0191	0.00500	"	0.0333	ND	57.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120		
Pyrene	0.0173	0.00500	"	0.0333	ND	51.9	35-142		
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130		
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.9	40-150		
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.3	40-150		

##### Matrix Spike Dup (BGD0445-MSD1)

Source: 2304290-01

Prepared: 04/14/23 Analyzed: 04/15/23

Acenaphthene	0.0202	0.00500	mg/kg	0.0333	ND	60.5	31-137	3.18	30
Anthracene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	3.80	30
Benzo (a) anthracene	0.0160	0.00500	"	0.0333	ND	48.0	30-120	14.1	30
Benzo (a) pyrene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	4.24	30
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	6.66	30
Benzo (k) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	7.83	30
Chrysene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	0.756	30
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	4.75	30
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	10.5	30
Fluorene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	4.71	30
Indeno (1,2,3-cd) pyrene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	6.76	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.1	35-142	5.55	30
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130	11.2	50
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.2	15-130	2.83	50
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.1	40-150		
Surrogate: Fluoranthene-d10	0.0203		"	0.0333		60.8	40-150		

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGD0451 - EPA 3050B**

**Blank (BGD0451-BLK1)**

Prepared: 04/14/23 Analyzed: 04/22/23

Boron ND 0.0100 mg/L

**LCS (BGD0451-BS1)**

Prepared: 04/14/23 Analyzed: 04/22/23

Boron 5.20 0.0100 mg/L 5.00 104 80-120

**Duplicate (BGD0451-DUP1)**

Source: 2304256-01

Prepared: 04/14/23 Analyzed: 04/22/23

Boron 0.0902 0.0100 mg/L 0.0966 6.82 20

**Matrix Spike (BGD0451-MS1)**

Source: 2304256-01

Prepared: 04/14/23 Analyzed: 04/22/23

Boron 5.13 0.0100 mg/L 5.00 0.0966 101 75-125

**Matrix Spike Dup (BGD0451-MSD1)**

Source: 2304256-01

Prepared: 04/14/23 Analyzed: 04/22/23

Boron 5.05 0.0100 mg/L 5.00 0.0966 99.1 75-125 1.68 25

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0557 - EPA 3050B**

**Blank (BGD0557-BLK1)**

Prepared: 04/18/23 Analyzed: 04/23/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BGD0557-BS1)**

Prepared: 04/18/23 Analyzed: 04/23/23

Arsenic	35.2	0.200	mg/kg wet	40.0	88.1	80-120
Barium	36.9	0.400	"	40.0	92.3	80-120
Cadmium	1.90	0.200	"	2.00	95.1	80-120
Copper	39.6	0.400	"	40.0	99.1	80-120
Lead	18.5	0.200	"	20.0	92.7	80-120
Nickel	39.1	0.400	"	40.0	97.7	80-120
Selenium	4.09	0.260	"	4.00	102	80-120
Silver	1.94	0.0200	"	2.00	96.8	80-120
Zinc	37.9	0.400	"	40.0	94.7	80-120

**Duplicate (BGD0557-DUP1)**

Source: 2304257-01

Prepared: 04/18/23 Analyzed: 04/23/23

Arsenic	2.89	0.221	mg/kg dry	2.78	4.05	20
Barium	641	0.443	"	558	13.9	20
Cadmium	0.368	0.221	"	0.341	7.49	20
Copper	6.73	0.443	"	6.50	3.61	20
Lead	8.68	0.221	"	6.11	34.7	20
Nickel	3.37	0.443	"	3.10	8.16	20
Selenium	ND	0.260	"	ND		20
Silver	0.0230	0.0221	"	0.0208	10.1	20
Zinc	15.5	0.443	"	15.2	1.79	20

QR-04

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGD0557 - EPA 3050B**

**Matrix Spike (BGD0557-MS1)**

Source: 2304257-01

Prepared: 04/18/23 Analyzed: 04/23/23

Arsenic	40.3	0.221	mg/kg dry	44.3	2.78	84.8	75-125			
Barium	719	0.443	"	44.3	558	365	75-125			QM-4X
Cadmium	2.44	0.221	"	2.21	0.341	94.6	75-125			
Copper	33.2	0.443	"	44.3	6.50	60.3	75-125			QM-07
Lead	26.9	0.221	"	22.1	6.11	93.8	75-125			
Nickel	30.1	0.443	"	44.3	3.10	60.9	75-125			QM-07
Selenium	3.98	0.260	"	4.43	ND	90.0	75-125			
Silver	2.07	0.0221	"	2.21	0.0208	92.6	75-125			
Zinc	42.8	0.443	"	44.3	15.2	62.3	75-125			QM-07

**Matrix Spike Dup (BGD0557-MSD1)**

Source: 2304257-01

Prepared: 04/18/23 Analyzed: 04/23/23

Arsenic	40.1	0.221	mg/kg dry	44.3	2.78	84.2	75-125	0.634	25	
Barium	713	0.443	"	44.3	558	352	75-125	0.814	25	QM-4X
Cadmium	2.44	0.221	"	2.21	0.341	95.0	75-125	0.363	25	
Copper	33.2	0.443	"	44.3	6.50	60.3	75-125	0.0213	25	QM-07
Lead	26.6	0.221	"	22.1	6.11	92.8	75-125	0.829	25	
Nickel	30.1	0.443	"	44.3	3.10	61.0	75-125	0.181	25	QM-07
Selenium	3.83	0.260	"	4.43	ND	86.5	75-125	3.90	25	
Silver	2.08	0.0221	"	2.21	0.0208	93.0	75-125	0.363	25	
Zinc	42.7	0.443	"	44.3	15.2	62.0	75-125	0.253	25	QM-07

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0457 - 3060A Mod**

**Blank (BGD0457-BLK1)**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGD0457-BS1)**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

**Duplicate (BGD0457-DUP1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGD0457-MS1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.3 ND 93.0 75-125

**Matrix Spike Dup (BGD0457-MSD1)**

**Source: 2304189-01**

Prepared & Analyzed: 04/14/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 26.3 ND 93.4 75-125 0.429 20

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BGD0582 - General Preparation**

**Blank (BGD0582-BLK1)**

Prepared: 04/18/23 Analyzed: 04/20/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BGD0582-BS1)**

Prepared: 04/18/23 Analyzed: 04/20/23

Calcium	5.29	0.0500	mg/L wet	5.00	106	70-130
Magnesium	4.99	0.0500	"	5.00	99.8	70-130
Sodium	4.98	0.0500	"	5.00	99.7	70-130

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]

Project Manager: Levi Kirk

**Reported:**

04/26/23 10:37

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

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

**Batch BGD0469 - General Preparation**

<b>Duplicate (BGD0469-DUP1)</b>		<b>Source: 2304251-01</b>			Prepared: 04/14/23 Analyzed: 04/16/23					
% Solids	76.8		%		76.8			0.0392	20	

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BGD0607 - General Preparation**

**Blank (BGD0607-BLK1)**

Prepared & Analyzed: 04/19/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGD0607-BS1)**

Prepared & Analyzed: 04/19/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BGD0607-DUP1)**

**Source: 2304257-01**

Prepared & Analyzed: 04/19/23

Specific Conductance (EC) 2.28 0.0100 mmhos/cm 2.36 3.19 20

Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

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

**Batch BGD0603 - General Preparation**

**LCS (BGD0603-BS1)**

Prepared & Analyzed: 04/19/23

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BGD0603-DUP1)**

Source: 2304257-01

Prepared & Analyzed: 04/19/23

pH	7.64	pH Units	7.62	0.262	20
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Summit Scientific

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Fundare  
1811 East Mulberry St  
Fort Collins CO, 80525

Project: Wolf 35-2613H

Project Number: [none]  
Project Manager: Levi Kirk

**Reported:**  
04/26/23 10:37

### Notes and Definitions

Z-01	Sample dilution required due to high concentration of non-target compounds present in sample.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



June 13, 2023

Fundare

Levi Kirk

1613 Propect Park Way Suite 120

- - -

**Project Name - Wolf 35-2613H**

**Project Number - [none]**

Attached are your analytical results for Wolf 35-2613H received by Origins Laboratory, Inc. May 23, 2023. This project is associated with Origins project number Y305605-01.

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

Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1@2'	Y305605-01	Soil	May 23, 2023 11:40	05/23/2023 14:54
SW-2@2'	Y305605-02	Soil	May 23, 2023 11:45	05/23/2023 14:54
SW-3@2'	Y305605-03	Soil	May 23, 2023 11:50	05/23/2023 14:54
SW-4@2'	Y305605-04	Soil	May 23, 2023 11:55	05/23/2023 14:54
SW-5@2'	Y305605-05	Soil	May 23, 2023 12:00	05/23/2023 14:54
SW-6@2'	Y305605-06	Soil	May 23, 2023 12:05	05/23/2023 14:54
BH-1@3'	Y305605-07	Soil	May 23, 2023 12:10	05/23/2023 14:54
BH-2@3'	Y305605-08	Soil	May 23, 2023 12:15	05/23/2023 14:54

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

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4305005

page 1 of 1

**ORIGINS**  
LABORATORY, INC

Client: Fundare (Bill to MarCom)  
Address: 1613 Prospect Park Way Suite 120  
Telephone Number: 970-237-1415  
Email Address: Fundare@marcomllc.net

Project Manager: Levi Kirk  
Project Name: Wolf 35-2613H  
Project Number: N/A  
Samples Collected By: Chris P. & Edging S.

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		
SL-1 @ 2'	05/23/23	1140	3	X					X			Full Table 915	1
SL-2 @ 2'		1145											2
SL-3 @ 2'		1150											3
SL-4 @ 2'		1155											4
SL-5 @ 2'		1200											5
SL-6 @ 2'		1205											6
BL-1 @ 3'		1210											7
BL-2 @ 3'		1215											8
													9
													10
Relinquished By: <i>Chris Pellegrini</i>	Date: 05/23/23	Time: 1454	Time: 1454	Received By: EHS	Date: 5/23/23	Time: 1454	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:							

Date Results Needed

2.2.8

Origins Laboratory, Inc.

*Jen Pellegrini*

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.



Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 13051005

Client: VP Kaufman

Client Project ID: WOLF 35-2613H

Checklist Completed by: TSI LEAS

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

Date/time completed: 5/23/23

Airbill #: not

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

Cooler Number/Temperature: 1 22.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/25/23

Origins Laboratory, Inc.

Jefe Pellegrini

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.

Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-1@2'

5/23/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.376	0.101	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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Fundare  
1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

SW-1@2'

5/23/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	6.65	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	1.31	0.823	"	"	"	KAP	"	"
Sodium	11.8	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-1@2'

5/23/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-01 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	56.7 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	66 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	55.8 %	29-110			"	"	"

### pH in Soil by 9045D

pH	7.83	pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	5.91	SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.22	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.13	0.0843	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	278	8.43	"	"	"	CIH	"	"
Cadmium	0.194	0.0843	"	"	"	CIH	"	"
Copper	10.2	8.43	"	"	"	CIH	"	"
Lead	9.13	8.43	"	"	"	CIH	"	"
Nickel	ND	8.43	"	"	"	CIH	"	" U
Selenium	0.170	0.0843	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-1@2'

5/23/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-01 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND	0.0843	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	84.3	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.508	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-2@2'

5/23/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.339	0.102	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	85.5 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-2@2'

5/23/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.472	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"

Origins Laboratory, Inc.



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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## SW-2@2'

5/23/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y305605-02 (Soil)

### PAH by 8270D SIM

Pyrene	ND	0.00067	mg/Kg	1	L684565		05/30/2023	05/31/2023
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Surrogate: 2-Fluorobiphenyl  
Surrogate: 4-Terphenyl-d14  
Surrogate: Nitrobenzene-d5

50.8 %	33-115	"	"	"
61.2 %	33-122	"	"	"
51.7 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.68		pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	3.03		SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.706	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.45	0.0923	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	254	9.23	"	"	"	CIH	"	"
Cadmium	0.227	0.0923	"	"	"	CIH	"	"
Copper	11.2	9.23	"	"	"	CIH	"	"
Lead	ND	9.23	"	"	"	CIH	"	" U
Nickel	ND	9.23	"	"	"	CIH	"	" U

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-2@2'

5/23/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305605-02 (Soil)

## Table 915 metals by EPA 6020B

Selenium	0.187	0.0923	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	
Silver	ND	0.0923	"	"	"	CIH	"	"	U
Zinc	ND	92.3	"	"	"	CIH	"	"	U

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-3@2'

5/23/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.333	0.102	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	101 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120  
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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

SW-3@2'

5/23/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	7.75	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	1.99	0.823	"	"	"	KAP	"	"
Sodium	20.9	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-3@2'

5/23/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-03 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	57.7 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	67.9 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	57.7 %	29-110			"	"	"

### pH in Soil by 9045D

pH	7.90	pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	9.47	SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.33	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.70	0.0997	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	356	9.97	"	"	"	CIH	"	"
Cadmium	0.208	0.0997	"	"	"	CIH	"	"
Copper	11.1	9.97	"	"	"	CIH	"	"
Lead	ND	9.97	"	"	"	CIH	"	" U
Nickel	ND	9.97	"	"	"	CIH	"	" U
Selenium	0.154	0.0997	"	"	"	CIH	"	"

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-3@2'

5/23/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-03 (Soil)

**Table 915 metals by EPA 6020B**

Silver	ND	0.0997	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	99.7	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-4@2'

5/23/2023 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.378	0.0996	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

SW-4@2'

5/23/2023 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.62	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.59	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	0.000736	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-4@2'

5/23/2023 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-04 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	54.7 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	62.2 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	55.9 %	29-110			"	"	"

### pH in Soil by 9045D

pH	8.02		pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	2.05		SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.675	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.27	0.0949	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	404	9.49	"	"	"	CIH	"	"
Cadmium	0.219	0.0949	"	"	"	CIH	"	"
Copper	10.5	9.49	"	"	"	CIH	"	"
Lead	10.2	9.49	"	"	"	CIH	"	"
Nickel	ND	9.49	"	"	"	CIH	"	" U
Selenium	0.174	0.0949	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-4@2'

5/23/2023 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-04 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND	0.0949	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	94.9	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.513	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-5@2'

5/23/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-05 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.298	0.101	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	96.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

SW-5@2'

5/23/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.07	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.82	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-5@2'

5/23/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-05 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	50.5 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	52.9 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	42 %	29-110			"	"	"

### pH in Soil by 9045D

pH	8.01	pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	1.36	SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.600	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.84	0.0918	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	265	9.18	"	"	"	CIH	"	"
Cadmium	0.207	0.0918	"	"	"	CIH	"	"
Copper	11.3	9.18	"	"	"	CIH	"	"
Lead	10.1	9.18	"	"	"	CIH	"	"
Nickel	ND	9.18	"	"	"	CIH	"	" U
Selenium	0.141	0.0918	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-5@2'

5/23/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-05 (Soil)

**Table 915 metals by EPA 6020B**

Silver	ND	0.0918	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	91.8	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-6@2'

5/23/2023 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-06 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.201	0.0996	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.0 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-6@2'

5/23/2023 12:05:00PM

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

Y305605-06 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	1.47	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.883	0.435	"	"	"	KAP	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-6@2'

5/23/2023 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-06 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	49.4 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	48.8 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	44.2 %	29-110			"	"	"

### pH in Soil by 9045D

pH	8.16	pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	0.949	SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.279	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.65	0.0898	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	709	8.98	"	"	"	CIH	"	"
Cadmium	0.241	0.0898	"	"	"	CIH	"	"
Copper	12.2	8.98	"	"	"	CIH	"	"
Lead	9.05	8.98	"	"	"	CIH	"	"
Nickel	ND	8.98	"	"	"	CIH	"	" U
Selenium	0.189	0.0898	"	"	"	CIH	"	"

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-6@2'

5/23/2023 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-06 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND	0.0898	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	89.8	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.503	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-1@3'

5/23/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305605-07 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.262	0.0995	mg/L	1	B3E2412	KAP	05/24/2023	05/25/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.9 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-1@3'

5/23/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-07 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	5.84	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	1.90	0.823	"	"	"	KAP	"	"
Sodium	4.97	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-1@3'

5/23/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-07 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	56.9 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	59.9 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.7 %	29-110			"	"	"

### pH in Soil by 9045D

pH	7.97		pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	2.53		SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.51	0.0888	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	281	8.88	"	"	"	CIH	"	"
Cadmium	0.182	0.0888	"	"	"	CIH	"	"
Copper	10.0	8.88	"	"	"	CIH	"	"
Lead	ND	8.88	"	"	"	CIH	"	" U
Nickel	ND	8.88	"	"	"	CIH	"	" U
Selenium	0.0915	0.0888	"	"	"	CIH	"	"

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-1@3'

5/23/2023 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-07 (Soil)

**Table 915 metals by EPA 6020B**

Silver	ND	0.0888	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	88.8	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-2@3'

5/23/2023 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y305605-08 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.334	0.0992	mg/L	1	B3E2608	KAP	05/26/2023	05/30/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2502	ZZZ	05/25/2023	05/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2231	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

BH-2@3'

5/23/2023 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-08 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.42	0.499	meq/L	10	[CALC]	KAP	05/25/2023	05/26/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	7.59	0.435	"	"	"	KAP	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L684565		05/30/2023	05/31/2023
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	0.00158	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

BH-2@3'

5/23/2023 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC.

### Y305605-08 (Soil)

### PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	59.9 %	33-115			L6845 65	05/30/2023	05/31/2023
Surrogate: 4-Terphenyl-d14	57.5 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	48.2 %	29-110			"	"	"

### pH in Soil by 9045D

pH	8.28	pH Units	1	B3E2514	HJD	05/25/2023	05/26/2023
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### SAR by 20B Saturated Paste

SAR	8.15	SAR	1	B3E2509	KAP	05/25/2023	05/26/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.952	0.00500	mmhos/cm	1	B3E2514	HJD	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.61	0.0965	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023
Barium	1410	9.65	"	"	"	CIH	"	"
Cadmium	0.225	0.0965	"	"	"	CIH	"	"
Copper	12.4	9.65	"	"	"	CIH	"	"
Lead	14.9	9.65	"	"	"	CIH	"	"
Nickel	ND	9.65	"	"	"	CIH	"	" U
Selenium	0.203	0.0965	"	"	"	CIH	"	"

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Project Number: [none]

Project: Wolf 35-2613H

BH-2@3'

5/23/2023 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305605-08 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND	0.0965	mg/kg	10	B3E2410	CIH	05/24/2023	05/25/2023	U
Zinc	ND	96.5	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.502	mg/Kg	1	L684595		05/23/2023	05/30/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## 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 B3E2231 - EPA 5030 (soil)

#### Blank (B3E2231-BLK1)

Prepared: 05/24/2023 Analyzed: 05/24/2023

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	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

**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 B3E2231 - EPA 5030 (soil)**

**LCS (B3E2231-BS1)**

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	0.0973	0.00200	mg/kg	0.100		97.3	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Benzene	0.0978	0.00200	"	0.100		97.8	70-130			
Ethylbenzene	0.0911	0.00200	"	0.100		91.1	70-130			
Naphthalene	0.0878	0.00380	"	0.100		87.8	70-130			
Toluene	0.0931	0.00200	"	0.100		93.1	70-130			
o-Xylene	0.0894	0.00200	"	0.100		89.4	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

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Project Number: [none]

Project: Wolf 35-2613H

**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 B3E2231 - EPA 5030 (soil)**

Matrix Spike (B3E2231-MS1)		Source: Y305589-01			Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	0.0930	0.00200	mg/kg	0.100	ND	93.0	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Benzene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
Ethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Naphthalene	0.0988	0.00380	"	0.100	ND	98.8	70-130			
Toluene	0.0887	0.00200	"	0.100	ND	88.7	70-130			
o-Xylene	0.0894	0.00200	"	0.100	ND	89.4	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Project Number: [none]

Project: Wolf 35-2613H

**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 B3E2231 - EPA 5030 (soil)**

Matrix Spike Dup (B3E2231-MSD1)		Source: Y305589-01			Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100	ND	97.1	70-130	4.38	20	
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	5.02	20	
Benzene	0.0995	0.00200	"	0.100	ND	99.5	70-130	5.07	20	
Ethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	3.80	20	
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130	10.4	20	
Toluene	0.0937	0.00200	"	0.100	ND	93.7	70-130	5.39	20	
o-Xylene	0.0937	0.00200	"	0.100	ND	93.7	70-130	4.76	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.3	70-130	3.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## 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 B3E2410 - EPA 3050B

#### Blank (B3E2410-BLK1)

Prepared: 05/24/2023 Analyzed: 05/24/2023

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

#### LCS (B3E2410-BS1)

Prepared: 05/24/2023 Analyzed: 05/24/2023

Arsenic	0.0553	0.000100	mg/kg	0.0500		111	80-120
Barium	5.46	0.0100	"	5.00		109	80-120
Cadmium	0.0507	0.000100	"	0.0500		101	80-120
Copper	0.518	0.0100	"	0.500		104	80-120
Lead	0.0471	0.0100	"	0.0500		94.1	80-120
Nickel	0.0516	0.0100	"	0.0500		103	80-120
Selenium	0.0523	0.000100	"	0.0500		105	80-120
Silver	0.0512	0.000100	"	0.0500		102	80-120
Zinc	0.482	0.100	"	0.500		96.3	80-120

#### Matrix Spike (B3E2410-MS1)

Source: Y305464-03

Prepared: 05/24/2023 Analyzed: 05/24/2023

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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
<b>Batch B3E2410 - EPA 3050B</b>										
<b>Matrix Spike (B3E2410-MS1)</b>		<b>Source: Y305464-03</b>			Prepared: 05/24/2023 Analyzed: 05/24/2023					
Arsenic	5.34	0.0883	mg/kg	4.42	1.90	78.0	75-125			
Barium	356	8.83	"	442	58.2	67.5	75-125			QM-07
Cadmium	3.30	0.0883	"	4.42	0.0623	73.3	75-125			QM-07
Copper	31.9	8.83	"	44.2	4.07	63.0	75-125			QM-07
Lead	6.95	8.83	"	4.42	4.12	64.1	75-125			QM-07, U
Nickel	7.16	8.83	"	4.42	4.51	60.2	75-125			QM-07, U
Selenium	3.25	0.0883	"	4.42	0.0749	71.8	75-125			QM-07
Silver	3.45	0.0883	"	4.42	0.0171	77.8	75-125			
Zinc	45.3	88.3	"	44.2	16.4	65.4	75-125			QM-07, U
<b>Matrix Spike Dup (B3E2410-MSD1)</b>		<b>Source: Y305464-03</b>			Prepared: 05/24/2023 Analyzed: 05/25/2023					
Arsenic	5.46	0.0894	mg/kg	4.47	1.90	79.7	75-125	2.16	20	
Barium	472	8.94	"	447	58.2	92.7	75-125	28.0	20	QR-DUP
Cadmium	4.06	0.0894	"	4.47	0.0623	89.4	75-125	20.5	20	QR-DUP
Copper	41.6	8.94	"	44.7	4.07	84.0	75-125	26.4	20	QR-DUP
Lead	8.58	8.94	"	4.47	4.12	99.9	75-125	21.0	20	QR-DUP, U
Nickel	8.09	8.94	"	4.47	4.51	80.3	75-125	12.2	20	U
Selenium	4.25	0.0894	"	4.47	0.0749	93.4	75-125	26.8	20	QR-DUP
Silver	4.21	0.0894	"	4.47	0.0171	93.8	75-125	19.8	20	
Zinc	52.7	89.4	"	44.7	16.4	81.2	75-125	15.1	20	U

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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 B3E2412 - DTPA Sorbitol Preparation

##### Blank (B3E2412-BLK1)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Boron	ND	0.100	mg/L							U
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##### Duplicate (B3E2412-DUP1)

Source: Y305529-01

Prepared: 05/24/2023 Analyzed: 05/25/2023

Boron	0.113	0.0993	mg/L		0.114			1.40	50	
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#### Batch B3E2509 - Saturated Paste Metals

##### Blank (B3E2509-BLK1)

Prepared: 05/25/2023 Analyzed: 05/26/2023

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

##### Duplicate (B3E2509-DUP1)

Source: Y305586-01

Prepared: 05/25/2023 Analyzed: 05/26/2023

Calcium PPM	18.4	10.0	mg/L		18.4			0.326	50	
SAR	0.00		SAR		0.500			200	200	U
Magnesium PPM	3.88	10.0	mg/L		3.87			0.258	50	U
Sodium PPM	9.31	10.0	"		9.04			2.94	50	U

#### Batch B3E2608 - DTPA Sorbitol Preparation

##### Blank (B3E2608-BLK1)

Prepared: 05/26/2023 Analyzed: 05/30/2023

Boron	ND	0.100	mg/L							U
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##### Duplicate (B3E2608-DUP1)

Source: Y305605-08

Prepared: 05/26/2023 Analyzed: 05/30/2023

Boron	0.334	0.0983	mg/L		0.334			0.0600	50	
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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.

Jen Pellegrini, Project Manager



Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## Saturated Paste - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2514 - Saturated Paste pH/EC</b>										
<b>Blank (B3E2514-BLK1)</b>					Prepared: 05/25/2023 Analyzed: 05/26/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B3E2514-DUP1)</b>					<b>Source: Y305586-01</b> Prepared: 05/25/2023 Analyzed: 05/26/2023					
pH	7.97		pH Units		7.95			0.251	25	
Specific Conductance (EC)	0.281	0.00500	mmhos/cm		0.287			2.11	25	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L684565 - 3550B**

<b>MSD (L 98613-MSD-L684565)</b>		<b>Source: 98613</b>			<b>Prepared: 05/30/2023 Analyzed: 05/31/2023</b>					
Benzo(a)pyrene	0.105	0.00067	mg/Kg	0.167	<0.000468	62.8	30-130	6.4	30	
Chrysene	0.0959	0.00067	"	0.167	0.000684	57	30-130	5.1	30	
Pyrene	0.102	0.00067	"	0.167	<0.000643	61	30-130	2.8	30	
Naphthalene	0.0868	0.00201	"	0.167	<0.00145	51.9	30-130	3.8	30	
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.167	<0.000627	62.2	30-130	4.6	30	
Fluorene	0.101	0.00067	"	0.167	<0.000286	60.4	30-130	1.9	30	
Fluoranthene	0.102	0.00067	"	0.167	<0.000394	61	30-130	0.9	30	
Dibenz(a,h)anthracene	0.117	0.00067	"	0.167	<0.000614	70	30-130	5.8	30	
2-Methylnaphthalene	0.0915	0.00201	"	0.167	<0.00194	54.7	30-130	4.8	30	
1-Methylnaphthalene	0.0915	0.00201	"	0.167	<0.00109	54.7	30-130	4.6	30	
Benzo(k)fluoranthene	0.0769	0.00067	"	0.167	<0.000437	46	30-130	0.3	30	
Acenaphthene	0.0977	0.00067	"	0.167	<0.000304	58.5	30-130	3.3	30	
Anthracene	0.098	0.00067	"	0.167	<0.000334	58.6	30-130	3.6	30	
Benzo(a)anthracene	0.104	0.00067	"	0.167	<0.000493	62.2	30-130	8.2	30	
Benzo(b)fluoranthene	0.0836	0.00067	"	0.167	<0.000585	50	30-130	8.8	30	
Surrogate: Nitrobenzene-d5	53.4		"	0.333	183	53.4	29-110			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333	184	57.3	33-115			
Surrogate: 4-Terphenyl-d14	62.7		"	0.333	217	62.7	33-122			

<b>MS (L 98613-MS-L684565)</b>		<b>Source: 98613</b>			<b>Prepared: 05/30/2023 Analyzed: 05/31/2023</b>					
Benzo(k)fluoranthene	0.0766	0.00067	mg/Kg	0.165	<0.000437	46.4	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.00067	"	0.165	<0.000627	66	30-130			
Naphthalene	0.0902	0.00201	"	0.165	<0.00145	54.6	30-130			
Fluorene	0.103	0.00067	"	0.165	<0.000286	62.4	30-130			
Fluoranthene	0.103	0.00067	"	0.165	<0.000394	62.4	30-130			
Dibenz(a,h)anthracene	0.124	0.00067	"	0.165	<0.000614	75.1	30-130			
Chrysene	0.101	0.00067	"	0.165	0.000684	60.7	30-130			

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.

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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L684565 - 3550B**

MS (L 98613-MS-L684565)		Source: 98613			Prepared: 05/30/2023 Analyzed: 05/31/2023					
Pyrene	0.105	0.00067	mg/Kg	0.165	<0.000643	63.6	30-130			
1-Methylnaphthalene	0.0959	0.00201	"	0.165	<0.00109	58.1	30-130			
Benzo(a)pyrene	0.112	0.00067	"	0.165	<0.000468	67.8	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.165	<0.000493	68.4	30-130			
Anthracene	0.0945	0.00067	"	0.165	<0.000334	57.2	30-130			
Acenaphthene	0.101	0.00067	"	0.165	<0.000304	61.2	30-130			
2-Methylnaphthalene	0.096	0.00201	"	0.165	<0.00194	58.1	30-130			
Benzo(b)fluoranthene	0.0913	0.00067	"	0.165	<0.000585	55.3	30-130			
Surrogate: 4-Terphenyl-d14	65.4		"	0.33	217	65.4	33-122			
Surrogate: 2-Fluorobiphenyl	59.3		"	0.33	184	59.3	33-115			
Surrogate: Nitrobenzene-d5	55.7		"	0.33	183	55.7	29-110			

**LCS (LCS-L684565)**

Prepared: 05/30/2023 Analyzed: 05/31/2023

Benzo(b)fluoranthene	0.12	0.00067	mg/Kg	0.167		71.8	30-130
Benzo(k)fluoranthene	0.102	0.00067	"	0.167		61	30-130
Chrysene	0.104	0.00067	"	0.167		62.2	30-130
Fluoranthene	0.114	0.00067	"	0.167		68.2	30-130
Indeno(1,2,3-cd)pyrene	0.126	0.00067	"	0.167		75.4	30-130
Benzo(a)pyrene	0.113	0.00067	"	0.167		67.6	30-130
Dibenz(a,h)anthracene	0.138	0.00067	"	0.167		82.6	30-130
Pyrene	0.114	0.00067	"	0.167		68.2	30-130
Naphthalene	0.0932	0.00201	"	0.167		55.8	30-130
Anthracene	0.109	0.00067	"	0.167		65.2	30-130
Acenaphthene	0.102	0.00067	"	0.167		61	30-130
2-Methylnaphthalene	0.0968	0.00201	"	0.167		57.9	30-130
1-Methylnaphthalene	0.096	0.00201	"	0.167		57.4	30-130
Fluorene	0.106	0.00067	"	0.167		63.4	30-130

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- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## PAH by 8270D SIM - Quality Control

### Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch L684565 - 3550B

#### LCS (LCS-L684565)

Prepared: 05/30/2023 Analyzed: 05/31/2023

Benzo(a)anthracene	0.113	0.00067	mg/Kg	0.167		67.6	30-130			
Surrogate: Nitrobenzene-d5	62.7		"	0.333		62.7	29-110			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333		65.4	33-115			

#### LRB (LRB-L684565)

Prepared: 05/30/2023 Analyzed: 05/31/2023

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.6		"	0.333		60.6	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			

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- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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
<b>Batch L684595 -</b>										
<b>DUP (L 98620-DUP)</b>		<b>Source: Y305605-01</b>			Prepared: Analyzed: 05/30/2023					
Chromium, Hexavalent	2.14	0.5	mg/Kg		2.07		-	3.3	20	
<b>MS (L 98620-MS)</b>		<b>Source: Y305605-01</b>			Prepared: Analyzed: 05/30/2023					
Chromium, Hexavalent	31.7	2.5	mg/Kg	38.8	2.07	76	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/30/2023					
Chromium, Hexavalent	6.44	0.5	mg/Kg	8		81	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jen Pellegrini, Project Manager

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- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

### Notes and Definitions

U Sample is Non-Detect.

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

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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Jen Pellegrini, Project Manager



June 23, 2023

Fundare

Levi Kirk

1613 Propect Park Way Suite 120

- - -

**Project Name - Wolf 35-2613H**

**Project Number - [none]**

Attached are your analytical results for Wolf 35-2613H received by Origins Laboratory, Inc. June 16, 2023. This project is associated with Origins project number Y306432-01.

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

Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKGROUND-1@2'	Y306432-01	Soil	June 15, 2023 11:20	06/16/2023 09:40
BACKGROUND-1@4'	Y306432-02	Soil	June 15, 2023 11:25	06/16/2023 09:40
BACKGROUND-2@2'	Y306432-03	Soil	June 15, 2023 11:30	06/16/2023 09:40
BACKGROUND-2@4'	Y306432-04	Soil	June 15, 2023 11:35	06/16/2023 09:40
BACKGROUND-3@2'	Y306432-05	Soil	June 15, 2023 11:40	06/16/2023 09:40
BACKGROUND-3@4'	Y306432-06	Soil	June 15, 2023 11:45	06/16/2023 09:40
BACKGROUND-4@2'	Y306432-07	Soil	June 15, 2023 11:50	06/16/2023 09:40
BACKGROUND-4@4'	Y306432-08	Soil	June 15, 2023 11:55	06/16/2023 09:40

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

4306432

page 1 of 1

Client: Fundare - Bill To MarCom  
Address: 1613 Prospect Park Way Suite 120

Project Manager: Levi Kirk  
Project Name: Wolf 35-2613H  
Project Number: [blank]  
Samples Collected By: Blake R. Egan S.

Telephone Number: 970-237-1415  
Email Address: Fundare@marcomllc.net

Send Invoice to: hthatcher@marcomllc.net

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
Background - 102'	6.15.23	1120	2	X					X		Table 915	1
Background - 104'		1125	1								Table 915	2
Background - 202'		1130	1								Table 915	3
Background - 204'		1135	1								Table 915	4
Background - 302'		1140	1								Table 915	5
Background - 304'		1145	1								Table 915	6
Background - 402'		1150	1								Table 915	7
Background - 404'		1155	1								Table 915	8
											Table 915	9
											Table 915	10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
PP	6.16.23	9:40	WJ	6.16.23	9:40	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"/>

Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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.

Jen Pellegrini, Project Manager

Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 4306432

Client: Fundare

Client Project ID: Wolf 35-2613H

Checklist Completed by: TJVEHS

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

Date/time completed: 01/19/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 10 °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JR Date/Time Reviewed 1-20-12

Origins Laboratory, Inc.

*Jen Pellegrini*

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

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1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-1@2'

6/15/2023 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.550	0.102	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	3.48	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.95	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.36		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	2.05		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.752	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.24	0.0911	mg/kg	10	B3F1923	CIH	06/19/2023	06/20/2023
Barium	380	9.11	"	"	"	CNG	"	"
Cadmium	0.211	0.0911	"	"	"	CIH	"	"
Chromium	9.95	9.11	"	"	"	CIH	"	"

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.

Fundare  
1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-1@2'**  
**6/15/2023 11:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-01 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	10.2	9.11	mg/kg	10	B3F1923	CIH	06/19/2023	06/20/2023	
Lead	12.1	9.11	"	"	"	CIH	"	"	
Nickel	ND	9.11	"	"	"	CIH	"	"	U
Selenium	0.201	0.0911	"	"	"	CIH	"	"	
Silver	ND	0.0911	"	"	"	CIH	"	"	U
Zinc	ND	91.1	"	"	"	CIH	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.501	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-1@4'

6/15/2023 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.522	0.0992	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	2.95	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	0.830	0.823	"	"	"	KAP	"	"
Sodium	3.19	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.27		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	2.32		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.722	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.03	0.0943	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	306	9.43	"	"	"	CNG	"	"
Cadmium	0.208	0.0943	"	"	"	CNG	"	"
Chromium	ND	9.43	"	"	"	CNG	"	" U

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-1@4'**  
**6/15/2023 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND	9.43	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	U
Lead	ND	9.43	"	"	"	CNG	"	"	U
Nickel	ND	9.43	"	"	"	CNG	"	"	U
Selenium	<b>0.138</b>	0.0943	"	"	"	CNG	"	"	
Silver	ND	0.0943	"	"	"	CNG	"	"	U
Zinc	ND	94.3	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.508	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-2@2'

6/15/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023	U
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### Metals by Saturated Paste by EPA 6010

Calcium	2.02	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	3.82	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.34		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	3.29		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.651	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.21	0.0942	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	385	9.42	"	"	"	CNG	"	"
Cadmium	0.202	0.0942	"	"	"	CNG	"	"

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-2@2'**  
**6/15/2023 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-03 (Soil)**

**Table 915 metals by EPA 6020B**

Chromium	ND	9.42	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	U
Copper	11.8	9.42	"	"	"	CNG	"	"	
Lead	ND	9.42	"	"	"	CNG	"	"	U
Nickel	ND	9.42	"	"	"	CNG	"	"	U
Selenium	ND	0.0942	"	"	"	CNG	"	"	U
Silver	ND	0.0942	"	"	"	CNG	"	"	U
Zinc	ND	94.2	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-2@4'

6/15/2023 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-04 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.321	0.100	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	4.05	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	3.67	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	7.99		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	2.36		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.853	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.94	0.0889	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	290	8.89	"	"	"	CNG	"	"
Cadmium	0.218	0.0889	"	"	"	CNG	"	"
Chromium	9.77	8.89	"	"	"	CNG	"	"

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Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-2@4'**  
**6/15/2023 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-04 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	10.5	8.89	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	
Lead	9.75	8.89	"	"	"	CNG	"	"	
Nickel	ND	8.89	"	"	"	CNG	"	"	U
Selenium	0.164	0.0889	"	"	"	CNG	"	"	
Silver	ND	0.0889	"	"	"	CNG	"	"	U
Zinc	ND	88.9	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-3@2'

6/15/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-05 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.174	0.101	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	3.56	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	0.992	0.823	"	"	"	KAP	"	"
Sodium	3.62	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.20		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	2.40		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.798	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.57	0.0893	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	333	8.93	"	"	"	CNG	"	"
Cadmium	0.180	0.0893	"	"	"	CNG	"	"
Chromium	ND	8.93	"	"	"	CNG	"	" U

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-3@2'**  
**6/15/2023 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-05 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	9.81	8.93	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	
Lead	9.02	8.93	"	"	"	CNG	"	"	
Nickel	ND	8.93	"	"	"	CNG	"	"	U
Selenium	0.0991	0.0893	"	"	"	CNG	"	"	
Silver	ND	0.0893	"	"	"	CNG	"	"	U
Zinc	ND	89.3	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-3@4'

6/15/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-06 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.425	0.101	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	6.30	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	1.52	0.823	"	"	"	KAP	"	"
Sodium	3.50	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.17		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	1.77		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.52	0.0926	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	338	9.26	"	"	"	CNG	"	"
Cadmium	0.309	0.0926	"	"	"	CNG	"	"
Chromium	9.83	9.26	"	"	"	CNG	"	"

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-3@4'**  
**6/15/2023 11:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-06 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	10.8	9.26	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	
Lead	11.7	9.26	"	"	"	CNG	"	"	
Nickel	ND	9.26	"	"	"	CNG	"	"	U
Selenium	0.149	0.0926	"	"	"	CNG	"	"	
Silver	ND	0.0926	"	"	"	CNG	"	"	U
Zinc	ND	92.6	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.517	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## BACKGROUND-4@2'

6/15/2023 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306432-07 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023	U
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### Metals by Saturated Paste by EPA 6010

Calcium	2.60	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	6.34	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.26		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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### SAR by 20B Saturated Paste

SAR	4.86		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.54	0.0860	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	371	8.60	"	"	"	CNG	"	"
Cadmium	0.297	0.0860	"	"	"	CNG	"	"

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-4@2'**  
**6/15/2023 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-07 (Soil)**

**Table 915 metals by EPA 6020B**

Chromium	ND	8.60	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	U
Copper	11.0	8.60	"	"	"	CNG	"	"	
Lead	10.6	8.60	"	"	"	CNG	"	"	
Nickel	ND	8.60	"	"	"	CNG	"	"	U
Selenium	ND	0.0860	"	"	"	CNG	"	"	U
Silver	ND	0.0860	"	"	"	CNG	"	"	U
Zinc	ND	86.0	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-4@4'**  
**6/15/2023 11:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.102	mg/L	1	B3F1924	KAP	06/19/2023	06/20/2023	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.05	0.499	meq/L	10	[CALC]	KAP	"	06/20/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	5.33	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.35		pH Units	1	B3F1926	HJD	06/19/2023	06/20/2023
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**SAR by 20B Saturated Paste**

SAR	4.65		SAR	1	B3F1925	KAP	06/19/2023	06/20/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.821	0.00500	mmhos/cm	1	B3F1926	HJD	06/19/2023	06/20/2023
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**Table 915 metals by EPA 6020B**

Arsenic	4.26	0.0907	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023
Barium	419	9.07	"	"	"	CNG	"	"
Cadmium	0.236	0.0907	"	"	"	CNG	"	"

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

**BACKGROUND-4@4'**  
**6/15/2023 11:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306432-08 (Soil)**

**Table 915 metals by EPA 6020B**

Chromium	ND	9.07	mg/kg	10	B3F1923	CNG	06/19/2023	06/20/2023	U
Copper	11.2	9.07	"	"	"	CNG	"	"	
Lead	ND	9.07	"	"	"	CNG	"	"	U
Nickel	ND	9.07	"	"	"	CNG	"	"	U
Selenium	ND	0.0907	"	"	"	CNG	"	"	U
Silver	ND	0.0907	"	"	"	CNG	"	"	U
Zinc	ND	90.7	"	"	"	CNG	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L689176		06/15/2023	06/22/2023	
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Jen Pellegrini, Project Manager

Fundare  
1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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 B3F1923 - EPA 3050B

##### Blank (B3F1923-BLK1)

Prepared: 06/19/2023 Analyzed: 06/20/2023

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

##### LCS (B3F1923-BS1)

Prepared: 06/19/2023 Analyzed: 06/20/2023

Arsenic	0.0536	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.40	0.0100	"	5.00		108	80-120			
Cadmium	0.0520	0.000100	"	0.0500		104	80-120			
Chromium	0.0540	0.0100	"	0.0500		108	80-120			
Copper	0.505	0.0100	"	0.500		101	80-120			
Lead	0.0513	0.0100	"	0.0500		103	80-120			
Nickel	0.0556	0.0100	"	0.0500		111	80-120			
Selenium	0.0527	0.000100	"	0.0500		105	80-120			
Silver	0.0488	0.000100	"	0.0500		97.7	80-120			
Zinc	0.548	0.100	"	0.500		110	80-120			

##### Matrix Spike (B3F1923-MS1)

Source: Y306432-01

Prepared: 06/19/2023 Analyzed: 06/20/2023

Arsenic	10.3	0.0941	mg/kg	4.71	4.24	129	75-125			QM-07
Barium	784	9.41	"	471	380	86.0	75-125			
Cadmium	4.79	0.0941	"	4.71	0.211	97.4	75-125			

Origins Laboratory, Inc.



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Fundare

1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## 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 B3F1923 - EPA 3050B

Matrix Spike (B3F1923-MS1)		Source: Y306432-01			Prepared: 06/19/2023 Analyzed: 06/20/2023					
Chromium	13.8	9.41	mg/kg	4.71	9.95	82.4	75-125			
Copper	42.9	9.41	"	47.1	10.2	69.5	75-125			QM-07
Lead	14.9	9.41	"	4.71	12.1	59.4	75-125			QM-07
Nickel	11.5	9.41	"	4.71	7.56	83.3	75-125			
Selenium	4.69	0.0941	"	4.71	0.201	95.3	75-125			
Silver	4.20	0.0941	"	4.71	0.0173	89.0	75-125			
Zinc	89.0	94.1	"	47.1	45.8	91.7	75-125			U
Matrix Spike Dup (B3F1923-MSD1)		Source: Y306432-01			Prepared: 06/19/2023 Analyzed: 06/20/2023					
Arsenic	8.95	0.0948	mg/kg	4.74	4.24	99.4	75-125	14.0	20	
Barium	808	9.48	"	474	380	90.3	75-125	2.97	20	
Cadmium	5.16	0.0948	"	4.74	0.211	104	75-125	7.35	20	
Chromium	15.1	9.48	"	4.74	9.95	108	75-125	8.60	20	
Copper	50.0	9.48	"	47.4	10.2	83.9	75-125	15.2	20	
Lead	13.7	9.48	"	4.74	12.1	33.3	75-125	8.50	20	QM-07
Nickel	12.8	9.48	"	4.74	7.56	110	75-125	10.6	20	
Selenium	5.11	0.0948	"	4.74	0.201	103	75-125	8.59	20	
Silver	4.55	0.0948	"	4.74	0.0173	95.7	75-125	7.96	20	
Zinc	94.5	94.8	"	47.4	45.8	103	75-125	6.08	20	U

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Jen Pellegrini, Project Manager

Fundare  
1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1924 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3F1924-BLK1)</b>					Prepared: 06/19/2023 Analyzed: 06/20/2023					
Boron	ND	0.100	mg/L							U
<b>Duplicate (B3F1924-DUP1)</b>					<b>Source: Y306417-03</b> Prepared: 06/19/2023 Analyzed: 06/20/2023					
Boron	0.231	0.102	mg/L		0.315			30.9	50	
<b>Batch B3F1925 - Saturated Paste Metals</b>										
<b>Blank (B3F1925-BLK1)</b>					Prepared: 06/19/2023 Analyzed: 06/20/2023					
SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
<b>Duplicate (B3F1925-DUP1)</b>					<b>Source: Y306417-01</b> Prepared: 06/19/2023 Analyzed: 06/20/2023					
SAR	0.00		SAR		4.47			200	200	U
Calcium PPM	235	10.0	mg/L		184			24.6	50	
Magnesium PPM	75.0	10.0	"		81.1			7.81	50	
Sodium PPM	318	10.0	"		289			9.48	50	

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Jen Pellegrini, Project Manager

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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## Saturated Paste - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1926 - Saturated Paste pH/EC</b>										
<b>Blank (B3F1926-BLK1)</b>					Prepared: 06/19/2023 Analyzed: 06/20/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B3F1926-DUP1)</b>					<b>Source: Y306417-01</b> Prepared: 06/19/2023 Analyzed: 06/20/2023					
Specific Conductance (EC)	2.93	0.00500	mmhos/cm		2.68			9.21	25	
pH	8.85		pH Units		8.52			3.80	25	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Fundare  
1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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
<b>Batch L689176 -</b>										
<b>DUP (L 88742-DUP)</b>		<b>Source: Y306432-03</b>			Prepared: Analyzed: 06/22/2023					
Chromium, Hexavalent	ND	0.519	mg/Kg		<0.519		-	0	20	
<b>MS (L 88742-MS)</b>		<b>Source: Y306432-03</b>			Prepared: Analyzed: 06/22/2023					
Chromium, Hexavalent	34.6	2.57	mg/Kg	41.2	<1.25	84	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 06/22/2023					
Chromium, Hexavalent	6.73	0.5	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 06/22/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Jen Pellegrini, Project Manager

Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

### 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.

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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Jen Pellegrini, Project Manager



July 17, 2023

Fundare

Levi Kirk

1613 Propect Park Way Suite 120

- - -

**Project Name - Wolf 35-2613H**

**Project Number - [none]**

Attached are your analytical results for Wolf 35-2613H received by Origins Laboratory, Inc. July 07, 2023. This project is associated with Origins project number Y307080-01.

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



Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7@2'	Y307080-01	Soil	July 5, 2023 11:40	07/07/2023 09:58
SW-8@2'	Y307080-02	Soil	July 5, 2023 11:45	07/07/2023 09:58
BH-2@4'	Y307080-03	Soil	July 5, 2023 11:50	07/07/2023 09:58

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

www.originslaboratory.com

page 1 of 1

U307080

Client: Fundare

Address: 1613 Prospect Park Way Suite 120

Telephone Number: 970-237-1415

Email Address: Fundare@marcomllc.net

Project Manager: Levi Kirk

Project Name: WOLF 35-2613H

Project Number:

Samples Collected By: ESJBR

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
SW-7 @ 2'	7/5/23	11:40	2	X					X		Table 9/5 Inorganics	1
SW-8 @ 2'	7/5/23	11:45	2	X					X			2
BH-2 @ 4'	7/5/23	11:50	2	X					X			3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
ESJBR	7/11/23	9:58	ESJBR	7/12/23	9:58	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"/>
Scheller						

Origins Laboratory, Inc.

Jen Pellegrini

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.

Fundare

1613 Propect Park Way Suite 120

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4307080

Client: Fundare

Client Project ID: Wolf 35-2613H

Checklist Completed by: EHS

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

Date/time completed: 7/7/23

Airbill #: N/A

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

Cooler Number/Temperature: 115.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JLB Date/Time Reviewed 7-10-23

Origins Laboratory, Inc.

*Jen Pellegrini*

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.

Fundare

1613 Propect Park Way Suite 120

- - -

Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## SW-7@2'

7/5/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y307080-01 (Soil)

Origins Laboratory, Inc.

### Boron (DTPA Sorbitol)

Boron	0.308	0.0995	mg/L	1	B3G1010	KAP	07/10/2023	07/11/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	1.94	0.499	meq/L	10	[CALC]	KAP	07/10/2023	07/11/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	3.22	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.21		pH Units	1	B3G1012	HJD	07/10/2023	07/11/2023
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### SAR by 20B Saturated Paste

SAR	2.88		SAR	1	B3G1005	KAP	07/10/2023	07/11/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.683	0.00500	mmhos/cm	1	B3G1012	HJD	07/10/2023	07/11/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.68	0.0926	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023
Barium	770	9.26	"	"	"	CIH	"	"
Cadmium	0.231	0.0926	"	"	"	CIH	"	"
Copper	11.3	9.26	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-7@2'

7/5/2023 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307080-01 (Soil)

Origins Laboratory, Inc.

## Table 915 metals by EPA 6020B

Lead	10.4	9.26	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023	
Nickel	ND	9.26	"	"	"	CIH	"	"	U
Selenium	0.180	0.0926	"	"	"	CIH	"	"	
Silver	ND	0.0926	"	"	"	CIH	"	"	U
Zinc	ND	92.6	"	"	"	CIH	"	"	U

Waypoint Analytical, LLC.

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L692737		07/05/2023	07/14/2023	
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Jen Pellegrini, Project Manager

Fundare

1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

SW-8@2'

7/5/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307080-02 (Soil)

Origins Laboratory, Inc.

## Boron (DTPA Sorbitol)

Boron	0.146	0.0995	mg/L	1	B3G1010	KAP	07/10/2023	07/11/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.33	0.499	meq/L	10	[CALC]	KAP	07/10/2023	07/11/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.52	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.19		pH Units	1	B3G1012	HJD	07/10/2023	07/11/2023
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## SAR by 20B Saturated Paste

SAR	2.04		SAR	1	B3G1005	KAP	07/10/2023	07/11/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.659	0.00500	mmhos/cm	1	B3G1012	HJD	07/10/2023	07/11/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.52	0.0888	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023
Barium	240	8.88	"	"	"	CIH	"	"
Cadmium	0.407	0.0888	"	"	"	CIH	"	"
Copper	ND	8.88	"	"	"	CIH	"	" U

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1613 Propect Park Way Suite 120  
- - -

Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

SW-8@2'

7/5/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307080-02 (Soil)

Origins Laboratory, Inc.

### Table 915 metals by EPA 6020B

Lead	ND	8.88	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023	U
Nickel	ND	8.88	"	"	"	CIH	"	"	U
Selenium	ND	0.0888	"	"	"	CIH	"	"	U
Silver	ND	0.0888	"	"	"	CIH	"	"	U
Zinc	ND	88.8	"	"	"	CIH	"	"	U

### Waypoint Analytical, LLC.

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L692737		07/05/2023	07/14/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



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1613 Propect Park Way Suite 120

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

**BH-2@4'**

**7/5/2023 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y307080-03 (Soil)**

**Origins Laboratory, Inc.**

### Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B3G1010	KAP	07/10/2023	07/11/2023	U
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### Metals by Saturated Paste by EPA 6010

Calcium	4.99	0.499	meq/L	10	[CALC]	KAP	07/10/2023	07/11/2023
Magnesium	1.56	0.823	"	"	"	KAP	"	"
Sodium	4.95	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.10		pH Units	1	B3G1012	HJD	07/10/2023	07/11/2023
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### SAR by 20B Saturated Paste

SAR	2.74		SAR	1	B3G1005	KAP	07/10/2023	07/11/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.37	0.00500	mmhos/cm	1	B3G1012	HJD	07/10/2023	07/11/2023
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### Table 915 metals by EPA 6020B

Arsenic	2.93	0.0902	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023
Barium	269	9.02	"	"	"	CIH	"	"
Cadmium	0.124	0.0902	"	"	"	CIH	"	"
Copper	ND	9.02	"	"	"	CIH	"	" U

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

**BH-2@4'**

**7/5/2023 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y307080-03 (Soil)**

**Origins Laboratory, Inc.**

## Table 915 metals by EPA 6020B

Lead	ND	9.02	mg/kg	10	B3G1003	CIH	07/10/2023	07/11/2023	U
Nickel	ND	9.02	"	"	"	CIH	"	"	U
Selenium	<b>0.106</b>	0.0902	"	"	"	CIH	"	"	
Silver	ND	0.0902	"	"	"	CIH	"	"	U
Zinc	ND	90.2	"	"	"	CIH	"	"	U

## Waypoint Analytical, LLC.

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L692737		07/05/2023	07/14/2023	
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Jen Pellegrini, Project Manager

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## 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 B3G1003 - EPA 3050B

##### Blank (B3G1003-BLK1)

Prepared: 07/10/2023 Analyzed: 07/11/2023

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

##### LCS (B3G1003-BS1)

Prepared: 07/10/2023 Analyzed: 07/11/2023

Arsenic	0.0559	0.000100	mg/kg	0.0500		112	80-120
Barium	5.39	0.0100	"	5.00		108	80-120
Cadmium	0.0539	0.000100	"	0.0500		108	80-120
Copper	0.539	0.0100	"	0.500		108	80-120
Lead	0.0523	0.0100	"	0.0500		105	80-120
Nickel	0.0535	0.0100	"	0.0500		107	80-120
Selenium	0.0513	0.000100	"	0.0500		103	80-120
Silver	0.0506	0.000100	"	0.0500		101	80-120
Zinc	0.534	0.100	"	0.500		107	80-120

##### Matrix Spike (B3G1003-MS1)

Source: Y307080-01

Prepared: 07/10/2023 Analyzed: 07/11/2023

Arsenic	9.25	0.0924	mg/kg	4.62	4.68	99.0	75-125
Barium	1260	9.24	"	462	770	106	75-125
Cadmium	5.08	0.0924	"	4.62	0.231	105	75-125
Copper	52.8	9.24	"	46.2	11.3	89.8	75-125
Lead	14.6	9.24	"	4.62	10.4	90.4	75-125

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

## 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 B3G1003 - EPA 3050B

Matrix Spike (B3G1003-MS1)		Source: Y307080-01			Prepared: 07/10/2023 Analyzed: 07/11/2023					
Nickel	10.4	9.24	mg/kg	4.62	6.38	86.9	75-125			
Selenium	4.66	0.0924	"	4.62	0.180	97.0	75-125			
Silver	4.45	0.0924	"	4.62	0.0111	96.1	75-125			
Zinc	82.1	92.4	"	46.2	40.9	89.0	75-125			U
Matrix Spike Dup (B3G1003-MSD1)		Source: Y307080-01			Prepared: 07/10/2023 Analyzed: 07/11/2023					
Arsenic	9.69	0.0937	mg/kg	4.69	4.68	107	75-125	4.67	20	
Barium	1280	9.37	"	469	770	110	75-125	2.07	20	
Cadmium	5.25	0.0937	"	4.69	0.231	107	75-125	3.34	20	
Copper	54.3	9.37	"	46.9	11.3	91.8	75-125	2.82	20	
Lead	20.3	9.37	"	4.69	10.4	211	75-125	32.6	20	QM-07
Nickel	10.8	9.37	"	4.69	6.38	93.4	75-125	3.40	20	
Selenium	4.34	0.0937	"	4.69	0.180	88.8	75-125	7.12	20	
Silver	4.55	0.0937	"	4.69	0.0111	96.8	75-125	2.08	20	
Zinc	84.5	93.7	"	46.9	40.9	93.0	75-125	2.94	20	U

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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 B3G1005 - Saturated Paste Metals

##### Blank (B3G1005-BLK1)

Prepared: 07/10/2023 Analyzed: 07/11/2023

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

##### Duplicate (B3G1005-DUP1)

Source: Y307075-01

Prepared: 07/10/2023 Analyzed: 07/11/2023

SAR	0.00		SAR		0.774			200	200	U
Calcium PPM	28.3	10.0	mg/L		32.4			13.3	50	
Magnesium PPM	2.96	10.0	"		3.63			20.3	50	U
Sodium PPM	14.3	10.0	"		17.4			19.3	50	

#### Batch B3G1010 - DTPA Sorbitol Preparation

##### Blank (B3G1010-BLK1)

Prepared: 07/10/2023 Analyzed: 07/11/2023

Boron	ND	0.100	mg/L							U
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##### Duplicate (B3G1010-DUP1)

Source: Y307075-01

Prepared: 07/10/2023 Analyzed: 07/11/2023

Boron	0.182	0.0990	mg/L		0.171			6.14	50	
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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G1012 - Saturated Paste pH/EC										
Blank (B3G1012-BLK1)					Prepared: 07/10/2023 Analyzed: 07/11/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3G1012-DUP1)					Source: Y307075-01 Prepared: 07/10/2023 Analyzed: 07/11/2023					
Specific Conductance (EC)	0.465	0.00500	mmhos/cm		0.482			3.61	25	
pH	8.08		pH Units		8.17			1.11	25	

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Levi Kirk  
Project Number: [none]  
Project: Wolf 35-2613H

## 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 L692737 -										
<b>DUP (L 97416-DUP)</b>		<b>Source: Y307080-01</b>			Prepared: Analyzed: 07/14/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 97416-MS)</b>		<b>Source: Y307080-01</b>			Prepared: Analyzed: 07/14/2023					
Chromium, Hexavalent	31.9	2.51	mg/Kg	40.1	<1.22	80	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 07/14/2023					
Chromium, Hexavalent	7.02	0.5	mg/Kg	8		88	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 07/14/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Levi Kirk

Project Number: [none]

Project: Wolf 35-2613H

### 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.

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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Jen Pellegrini, Project Manager