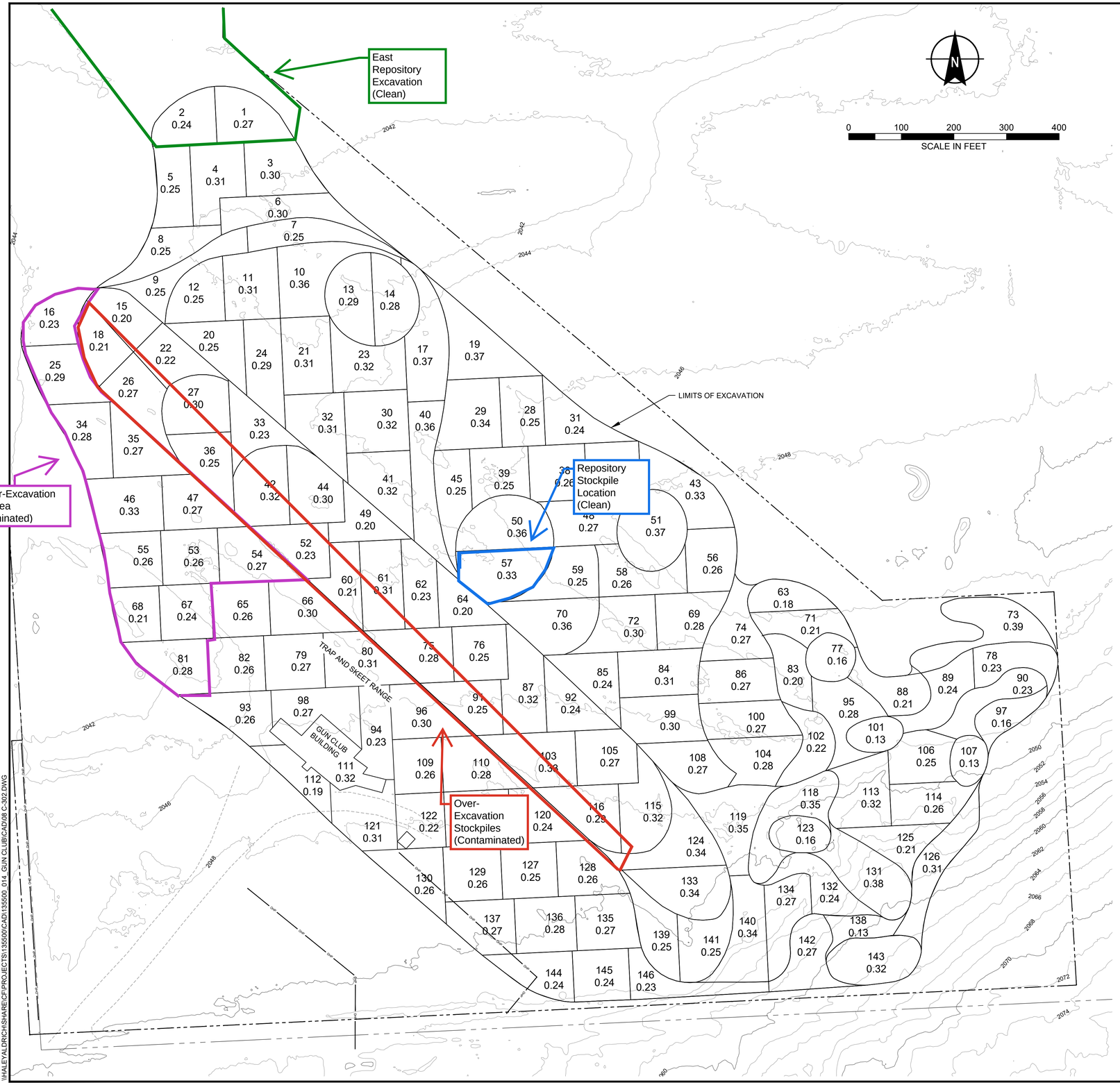
ATTACHMENT C

Plan **Sheet Markups**



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.36
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

DFR Markup
LWP
2 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

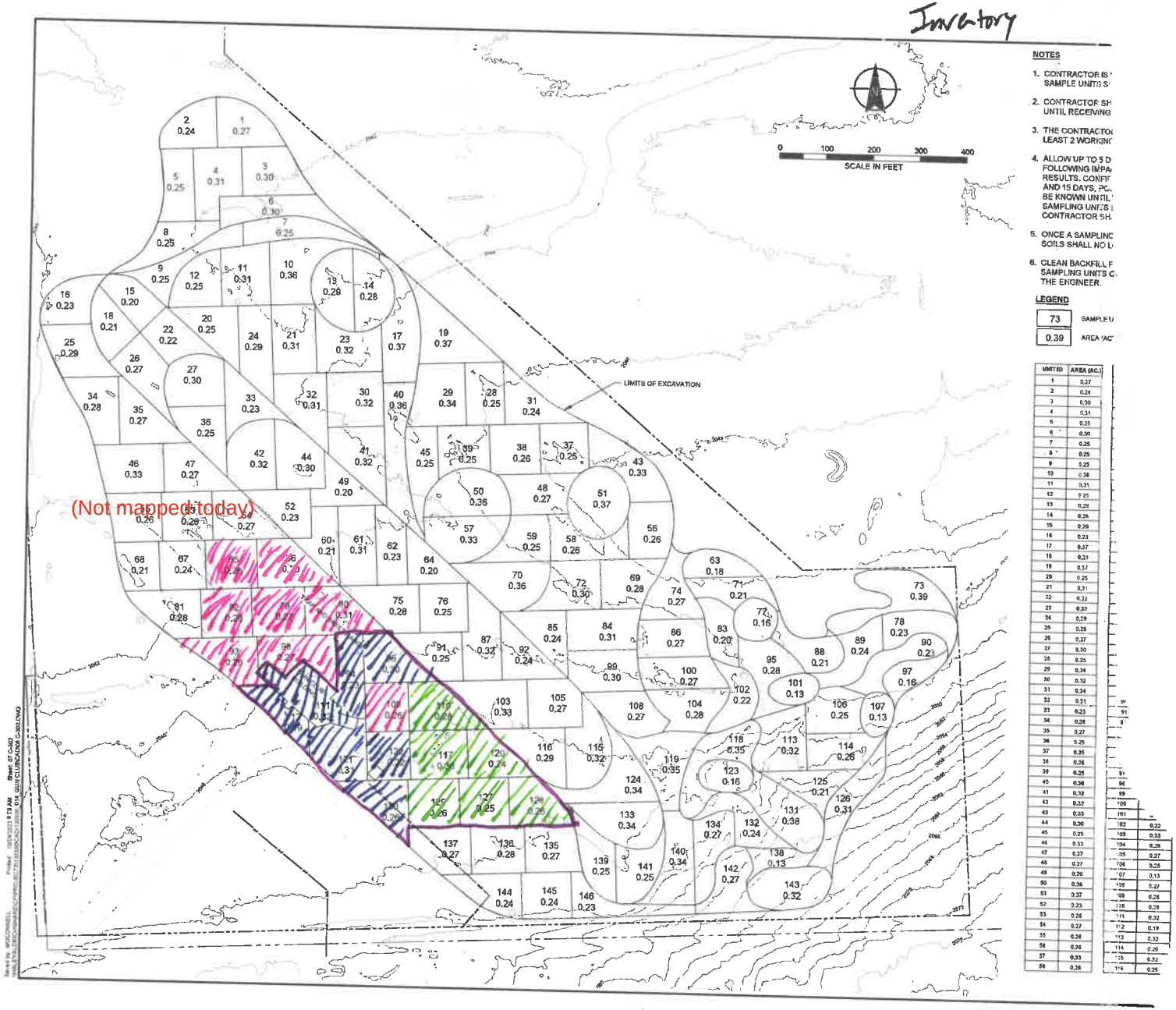
Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

ATTACHMENT D
Over-Excavation Visual Inventory

By observation: 2 ft cuts

12-2-24
Ove-Ex
Inventory



Good/Bad/Mixed is a visual designation only based on soil color and presence/ absence of debris. Not indicative of chemical concentrations.

- Stacked

- bad (dark soil, ~~debris~~ no debris observed)

- good (light soil, no debris)

- mixed

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	27
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	3 December 2024
Client	Central Valley School District	**Page**	1 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast	**Temperature**	30°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation

Haley and Aldrich observed HALME finish over-excavating 1 foot of soil from contaminated units on the NW portion of the site. Haley & Aldrich then observed HALME begin over-excavating 1 foot of soil from contaminated units on the SE portion of the site, where the excavated soil was pushed into stockpiles running through the middle of the site.

b. Repository Excavation

Haley & Aldrich observed HALME continue excavation on the east side of the repository and begin excavation on the west side of the repository, with an access road separating the two sides. The clean repository dirt from the east side was hauled to units verified as clean and dumped into stockpiles, while the clean repository dirt from the west side was transported to a stockpile near the garage, located just before reaching contaminated units.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of earthwork today and operated from 07:20 to 15:30. Samsara DM 47181 was positioned upwind of site work and DM 49913 was positioned downwind of site work. The relative humidity in the morning was approximately 95% and the wind was to the northeast.

Dust levels did not exceed the threshold of 2.5 mg/m^3 total particulates at the downwind property boundary. However, they did exceed the threshold of 0.025 mg/m^3 PM_{10}, 120-minute rolling average at the downwind property boundary. The upwind and downwind monitors reported nearly the same dust concentrations. This can be attributed to the day's high humidity level, where water vapor interferes with the monitors' ability to accurately record air particulate concentrations. After subtracting upwind measurements from downwind measurements, the 0.025 mg/m^3 PM_{10} 120-minute rolling average was never exceeded. Dust monitoring data is attached.

III. CONFIRMATION SAMPLING:

Haley & Aldrich collected the following confirmation samples today:

Name	Time	Analysis	Cut Depth	Soil Color	Soil Texture
CP_127_2	1020	PAHs	2	Mostly Light	Mostly Coarse
CP_129_2	1100	PAHs	2	Light	Coarse
CP_117_2	1200	PAHs	2	Light	Coarse
CP_110_2	1230	PAHs	2	Mixed	Fine to Coarse

Samples were shipped to Eurofins via UPS at 14:30.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	27
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	3 December 2024
Client	Central Valley School District	**Page**	2 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast	**Temperature**	30°F

IV. OTHER SITE ACTIVITIES:

Haley & Aldrich noticed five more plastic liners were delivered and unloaded near the front of the site by HALME; exact time is unknown.

Visitors/Specialty Contractors	Representing	Time
Truck Driver	SKAPS Industries	Unknown

Discussions:

Name	Topic
HALME, H&A	06:55 HALME held a morning safety meeting, where they discussed vehicle safety and specifics.
HALME Crew Member, H&A	10:30 Haley & Aldrich was asked by a crew member about the depth being over-excavated on the SE side of the site. Haley & Aldrich responded that the SE side was likely to be over-excavated by 1 foot, but that the crew member should call their PM to verify.

ATTACHMENTS:
A – Photo Log
B – Dust Monitoring Data
C – COC
D – Plan Sheet Markups
E – Over-Excavation Visual Inventory

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden, EIT	8	0.75	8.75

Distribution:

CVSD; Attn: Jay Rowell, OAC; Attn: Jeff Jurgensen



https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2024/12_03_2024_LWP_DFR_27/12_03_2024_LWP_DFR_27.docx

Haley & Aldrich, Inc.

ATTACHMENT A
Photo Log



Photo 01. Downwind dust monitor.



Photo 02. Upwind dust monitor.

Site Photographs – 3 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Finished 1-ft over-excavation of NW portion of site.



Photo 04. 1-ft over-excavation of contaminated units – SE portion of site.

Site Photographs – 3 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 05. Western repository excavation, facing NE.



Photo 06. Western repository excavation, facing NW.

Site Photographs – 3 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 07. Eastern repository excavation.

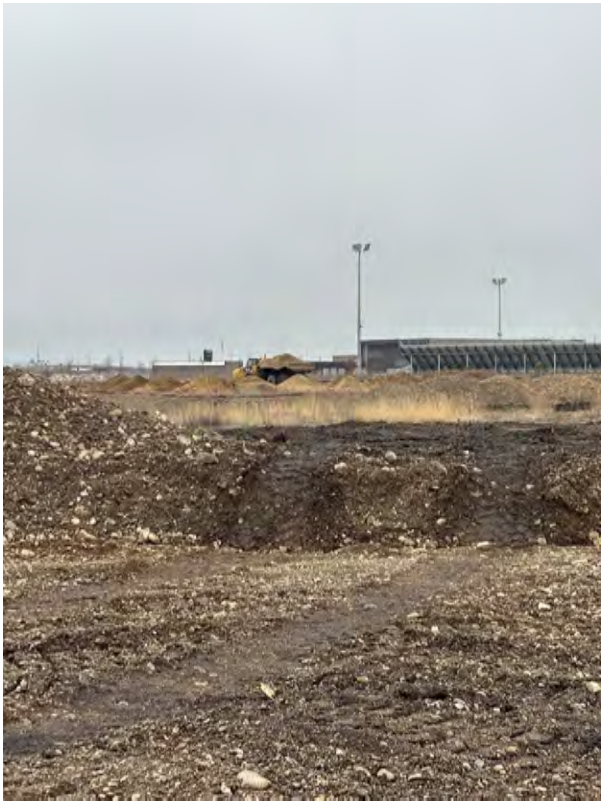


Photo 08. Eastern repository dirt stockpiled on clean units.

Site Photographs 3 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 09. Western repository dirt stockpiled near garage, just before reaching contaminated units.

Site Photographs – 3 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
Dust Monitoring Data

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Site Mobilized Dust (DW-UW)
Upwind (UW)									
Modem 47181	12/3/2024 19:50	12/3/2024 20:00	0.030	0.030	0.030	0.031	0.031	0.031	
Modem 47181	12/3/2024 19:40	12/3/2024 19:50	0.030	0.030	0.030	0.031	0.031	0.030	
Modem 47181	12/3/2024 19:30	12/3/2024 19:40	0.030	0.030	0.030	0.031	0.031	0.030	
Modem 47181	12/3/2024 19:20	12/3/2024 19:30	0.030	0.030	0.030	0.031	0.031	0.030	
Modem 47181	12/3/2024 19:10	12/3/2024 19:20	0.030	0.030	0.030	0.031	0.031	0.030	
Modem 47181	12/3/2024 19:00	12/3/2024 19:10	0.030	0.030	0.030	0.031	0.031	0.029	
Modem 47181	12/3/2024 18:50	12/3/2024 19:00	0.030	0.030	0.030	0.031	0.031	0.029	
Modem 47181	12/3/2024 18:40	12/3/2024 18:50	0.030	0.030	0.030	0.031	0.031	0.029	
Modem 47181	12/3/2024 18:30	12/3/2024 18:40	0.030	0.030	0.030	0.031	0.031	0.029	
Modem 47181	12/3/2024 18:20	12/3/2024 18:30	0.030	0.030	0.030	0.031	0.031	0.028	
Modem 47181	12/3/2024 18:10	12/3/2024 18:20	0.030	0.030	0.030	0.031	0.031	0.028	
Modem 47181	12/3/2024 18:00	12/3/2024 18:10	0.029	0.029	0.029	0.029	0.029	0.028	
Modem 47181	12/3/2024 17:50	12/3/2024 18:00	0.028	0.028	0.029	0.029	0.029	0.028	
Modem 47181	12/3/2024 17:40	12/3/2024 17:50	0.027	0.027	0.027	0.028	0.028	0.028	
Modem 47181	12/3/2024 17:30	12/3/2024 17:40	0.027	0.027	0.027	0.027	0.027	0.027	
Modem 47181	12/3/2024 17:20	12/3/2024 17:30	0.027	0.028	0.028	0.028	0.028	0.027	
Modem 47181	12/3/2024 17:10	12/3/2024 17:20	0.027	0.027	0.028	0.028	0.028	0.027	
Modem 47181	12/3/2024 17:00	12/3/2024 17:10	0.027	0.028	0.028	0.028	0.028	0.027	
Modem 47181	12/3/2024 16:50	12/3/2024 17:00	0.027	0.028	0.028	0.029	0.029	0.027	
Modem 47181	12/3/2024 16:40	12/3/2024 16:50	0.026	0.027	0.027	0.027	0.027	0.026	
Modem 47181	12/3/2024 16:30	12/3/2024 16:40	0.026	0.026	0.026	0.026	0.026	0.026	
Modem 47181	12/3/2024 16:20	12/3/2024 16:30	0.026	0.026	0.026	0.026	0.026	0.026	
Modem 47181	12/3/2024 16:10	12/3/2024 16:20	0.029	0.029	0.029	0.030	0.030	0.026	
Modem 47181	12/3/2024 16:00	12/3/2024 16:10	0.026	0.027	0.028	0.030	0.030	0.026	
Modem 47181	12/3/2024 15:50	12/3/2024 16:00	0.025	0.025	0.026	0.026	0.026	0.025	
Modem 47181	12/3/2024 15:40	12/3/2024 15:50	0.026	0.026	0.026	0.026	0.026	0.025	
Modem 47181	12/3/2024 15:30	12/3/2024 15:40	0.024	0.024	0.024	0.024	0.024	0.025	
Modem 47181	12/3/2024 15:20	12/3/2024 15:30	0.024	0.024	0.024	0.025	0.025	0.025	
Modem 47181	12/3/2024 15:10	12/3/2024 15:20	0.024	0.024	0.024	0.024	0.024	0.025	

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Site Mobilized Dust (DW-UW)
Modem 47181	12/3/2024 15:00	12/3/2024 15:10	0.027	0.027	0.027	0.027	0.027	0.025	
Modem 47181	12/3/2024 14:50	12/3/2024 15:00	0.025	0.025	0.025	0.026	0.026	0.025	
Modem 47181	12/3/2024 14:40	12/3/2024 14:50	0.026	0.026	0.026	0.026	0.026	0.025	
Modem 47181	12/3/2024 14:30	12/3/2024 14:40	0.026	0.026	0.027	0.027	0.027	0.025	
Modem 47181	12/3/2024 14:20	12/3/2024 14:30	0.025	0.025	0.025	0.025	0.025	0.025	
Modem 47181	12/3/2024 14:10	12/3/2024 14:20	0.024	0.024	0.024	0.025	0.025	0.025	
Modem 47181	12/3/2024 14:00	12/3/2024 14:10	0.024	0.024	0.024	0.024	0.024	0.026	
Modem 47181	12/3/2024 13:50	12/3/2024 14:00	0.025	0.026	0.026	0.026	0.026	0.027	
Modem 47181	12/3/2024 13:40	12/3/2024 13:50	0.024	0.025	0.025	0.026	0.026	0.027	
Modem 47181	12/3/2024 13:30	12/3/2024 13:40	0.022	0.023	0.023	0.023	0.023	0.028	
Modem 47181	12/3/2024 13:20	12/3/2024 13:30	0.022	0.022	0.022	0.023	0.023	0.029	
Modem 47181	12/3/2024 13:10	12/3/2024 13:20	0.022	0.022	0.022	0.023	0.023	0.031	
Modem 47181	12/3/2024 13:00	12/3/2024 13:10	0.023	0.024	0.024	0.024	0.024	0.032	
Modem 47181	12/3/2024 12:50	12/3/2024 13:00	0.024	0.024	0.025	0.025	0.025	0.033	
Modem 47181	12/3/2024 12:40	12/3/2024 12:50	0.025	0.026	0.026	0.026	0.026	0.034	
Modem 47181	12/3/2024 12:30	12/3/2024 12:40	0.027	0.027	0.027	0.027	0.027	0.035	
Modem 47181	12/3/2024 12:20	12/3/2024 12:30	0.026	0.027	0.027	0.027	0.027	0.036	
Modem 47181	12/3/2024 12:10	12/3/2024 12:20	0.029	0.029	0.029	0.029	0.029	0.037	
Modem 47181	12/3/2024 12:00	12/3/2024 12:10	0.032	0.033	0.033	0.033	0.033	0.038	
Modem 47181	12/3/2024 11:50	12/3/2024 12:00	0.032	0.032	0.033	0.033	0.033		
Modem 47181	12/3/2024 11:40	12/3/2024 11:50	0.034	0.034	0.034	0.034	0.034		
Modem 47181	12/3/2024 11:30	12/3/2024 11:40	0.032	0.032	0.032	0.032	0.032		
Modem 47181	12/3/2024 11:20	12/3/2024 11:30	0.034	0.034	0.035	0.036	0.045		
Modem 47181	12/3/2024 11:10	12/3/2024 11:20	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 11:00	12/3/2024 11:10	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 10:50	12/3/2024 11:00	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 10:40	12/3/2024 10:50	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 10:30	12/3/2024 10:40	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 10:20	12/3/2024 10:30	0.039	0.040	0.040	0.040	0.040		
Modem 47181	12/3/2024 10:10	12/3/2024 10:20	0.039	0.040	0.040	0.040	0.040		

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Site Mobilized Dust (DW-UW)
Modem 47181	12/3/2024 10:00	12/3/2024 10:10	0.039	0.040	0.040	0.040	0.040		
Downwind (DW)									
Modem 49913	12/3/2024 19:50	12/3/2024 20:00	0.026	0.027	0.027	0.027	0.027	0.029	-0.002
Modem 49913	12/3/2024 19:40	12/3/2024 19:50	0.026	0.027	0.027	0.027	0.027	0.029	-0.001
Modem 49913	12/3/2024 19:30	12/3/2024 19:40	0.026	0.027	0.027	0.027	0.027	0.029	-0.001
Modem 49913	12/3/2024 19:20	12/3/2024 19:30	0.026	0.027	0.027	0.027	0.027	0.029	0.000
Modem 49913	12/3/2024 19:10	12/3/2024 19:20	0.026	0.027	0.027	0.027	0.027	0.030	0.000
Modem 49913	12/3/2024 19:00	12/3/2024 19:10	0.026	0.027	0.027	0.027	0.027	0.030	0.001
Modem 49913	12/3/2024 18:50	12/3/2024 19:00	0.026	0.027	0.027	0.027	0.027	0.030	0.001
Modem 49913	12/3/2024 18:40	12/3/2024 18:50	0.026	0.027	0.027	0.027	0.027	0.031	0.002
Modem 49913	12/3/2024 18:30	12/3/2024 18:40	0.026	0.027	0.027	0.027	0.027	0.031	0.003
Modem 49913	12/3/2024 18:20	12/3/2024 18:30	0.027	0.027	0.027	0.027	0.027	0.031	0.003
Modem 49913	12/3/2024 18:10	12/3/2024 18:20	0.044	0.045	0.045	0.045	0.045	0.031	0.003
Modem 49913	12/3/2024 18:00	12/3/2024 18:10	0.036	0.036	0.036	0.037	0.037	0.030	0.002
Modem 49913	12/3/2024 17:50	12/3/2024 18:00	0.027	0.027	0.027	0.027	0.027	0.029	0.001
Modem 49913	12/3/2024 17:40	12/3/2024 17:50	0.027	0.027	0.028	0.028	0.028	0.030	0.002
Modem 49913	12/3/2024 17:30	12/3/2024 17:40	0.026	0.026	0.027	0.027	0.027	0.030	0.003
Modem 49913	12/3/2024 17:20	12/3/2024 17:30	0.029	0.029	0.029	0.030	0.030	0.030	0.003
Modem 49913	12/3/2024 17:10	12/3/2024 17:20	0.031	0.031	0.032	0.032	0.032	0.029	0.002
Modem 49913	12/3/2024 17:00	12/3/2024 17:10	0.028	0.028	0.029	0.029	0.029	0.029	0.002
Modem 49913	12/3/2024 16:50	12/3/2024 17:00	0.032	0.032	0.033	0.033	0.033	0.028	0.002
Modem 49913	12/3/2024 16:40	12/3/2024 16:50	0.028	0.029	0.029	0.029	0.029	0.028	0.001
Modem 49913	12/3/2024 16:30	12/3/2024 16:40	0.034	0.035	0.035	0.036	0.036	0.028	0.001
Modem 49913	12/3/2024 16:20	12/3/2024 16:30	0.025	0.025	0.025	0.025	0.025	0.027	0.000
Modem 49913	12/3/2024 16:10	12/3/2024 16:20	0.025	0.025	0.026	0.026	0.026	0.027	0.000
Modem 49913	12/3/2024 16:00	12/3/2024 16:10	0.028	0.028	0.029	0.029	0.029	0.027	0.001
Modem 49913	12/3/2024 15:50	12/3/2024 16:00	0.024	0.025	0.025	0.025	0.025	0.027	0.001
Modem 49913	12/3/2024 15:40	12/3/2024 15:50	0.038	0.038	0.039	0.039	0.039	0.026	0.001
Modem 49913	12/3/2024 15:30	12/3/2024 15:40	0.027	0.028	0.028	0.029	0.029	0.025	0.000
Modem 49913	12/3/2024 15:20	12/3/2024 15:30	0.024	0.024	0.024	0.025	0.025	0.025	0.000

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Site Mobilized Dust (DW-UW)
Modem 49913	12/3/2024 15:10	12/3/2024 15:20	0.022	0.022	0.022	0.023	0.023	0.025	0.000
Modem 49913	12/3/2024 15:00	12/3/2024 15:10	0.023	0.024	0.024	0.024	0.024	0.025	0.000
Modem 49913	12/3/2024 14:50	12/3/2024 15:00	0.025	0.025	0.025	0.025	0.025	0.025	0.000
Modem 49913	12/3/2024 14:40	12/3/2024 14:50	0.025	0.025	0.026	0.026	0.026	0.025	0.001
Modem 49913	12/3/2024 14:30	12/3/2024 14:40	0.027	0.027	0.027	0.027	0.027	0.026	0.001
Modem 49913	12/3/2024 14:20	12/3/2024 14:30	0.024	0.024	0.024	0.024	0.024	0.026	0.001
Modem 49913	12/3/2024 14:10	12/3/2024 14:20	0.025	0.025	0.025	0.025	0.025	0.027	0.002
Modem 49913	12/3/2024 14:00	12/3/2024 14:10	0.026	0.026	0.026	0.027	0.027	0.027	0.002
Modem 49913	12/3/2024 13:50	12/3/2024 14:00	0.025	0.026	0.026	0.026	0.026	0.028	0.002
Modem 49913	12/3/2024 13:40	12/3/2024 13:50	0.022	0.022	0.023	0.023	0.023	0.029	0.002
Modem 49913	12/3/2024 13:30	12/3/2024 13:40	0.024	0.024	0.024	0.025	0.025	0.030	0.003
Modem 49913	12/3/2024 13:20	12/3/2024 13:30	0.023	0.024	0.024	0.024	0.024	0.031	0.002
Modem 49913	12/3/2024 13:10	12/3/2024 13:20	0.022	0.022	0.022	0.023	0.023	0.032	0.001
Modem 49913	12/3/2024 13:00	12/3/2024 13:10	0.026	0.026	0.027	0.027	0.027	0.033	0.001
Modem 49913	12/3/2024 12:50	12/3/2024 13:00	0.025	0.026	0.026	0.026	0.026	0.031	-0.002
Modem 49913	12/3/2024 12:40	12/3/2024 12:50	0.026	0.027	0.027	0.027	0.027	0.033	-0.002
Modem 49913	12/3/2024 12:30	12/3/2024 12:40	0.030	0.030	0.031	0.031	0.031	0.034	-0.001
Modem 49913	12/3/2024 12:20	12/3/2024 12:30	0.032	0.032	0.032	0.032	0.032	0.035	-0.001
Modem 49913	12/3/2024 12:10	12/3/2024 12:20	0.033	0.033	0.033	0.033	0.033	0.036	-0.001
Modem 49913	12/3/2024 12:00	12/3/2024 12:10	0.032	0.033	0.033	0.033	0.033	0.037	-0.001
Modem 49913	12/3/2024 11:50	12/3/2024 12:00	0.034	0.035	0.035	0.035	0.035		0.000
Modem 49913	12/3/2024 11:40	12/3/2024 11:50	0.037	0.037	0.038	0.038	0.038		0.000
Modem 49913	12/3/2024 11:30	12/3/2024 11:40	0.037	0.037	0.037	0.038	0.038		0.000
Modem 49913	12/3/2024 11:20	12/3/2024 11:30	0.036	0.036	0.037	0.037	0.037		0.000
Modem 49913	12/3/2024 11:10	12/3/2024 11:20	0.036	0.037	0.037	0.037	0.037		0.000
Modem 49913	12/3/2024 11:00	12/3/2024 11:10	0.040	0.040	0.040	0.040	0.040		0.000
Modem 49913	12/3/2024 10:50	12/3/2024 11:00	0.000	0.000	0.000	0.000	0.000		0.000
Modem 49913	12/3/2024 10:40	12/3/2024 10:50	0.044	0.044	0.044	0.045	0.045		0.000
Modem 49913	12/3/2024 10:30	12/3/2024 10:40	0.044	0.044	0.044	0.045	0.045		0.000
Modem 49913	12/3/2024 10:20	12/3/2024 10:30	0.044	0.044	0.044	0.045	0.045		0.000

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Site Mobilized Dust (DW-UW)
Modem 49913	12/3/2024 10:10	12/3/2024 10:20	0.044	0.044	0.044	0.045	0.045		0.000
Modem 49913	12/3/2024 10:00	12/3/2024 10:10	0.044	0.044	0.044	0.045	0.045		0.000

ATTACHMENT C
Chain of Custody

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447
Page 1 of 1

H&A FILE NO. 0207349
PROJECT NAME LVSD
H&A CONTACT Breeyn Greer

LABORATORY Eurofins
ADDRESS 5755 8th St, E Tacoma, WA 98424
CONTACT

DELIVERY DATE 12/3/24
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	CPAH Priority Spike List + SGM Processing	Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)
LWP [redacted]	12/3/24	—	2 ft	Soil	[redacted] LWP	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CP_127_2		10:20				1	Archive for 1 month
CP_129_2		11:00				1	
LWP [redacted]		—			[redacted] LWP	1	
CP_117_2		12:00				1	
CP_110_2		12:30				1	

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Peda	Print
Firm Haley & Aldrich	Firm
Date 12/3/24 Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

PRESERVATION KEY

A Sample chilled — C NaOH — E H_2SO_4 — G Methanol
B Sample filtered — D HNO_3 — F HCL — H Water/NaHSO4 (circle)

Sampling Comments

Non-Hazardous

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
_____
_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory

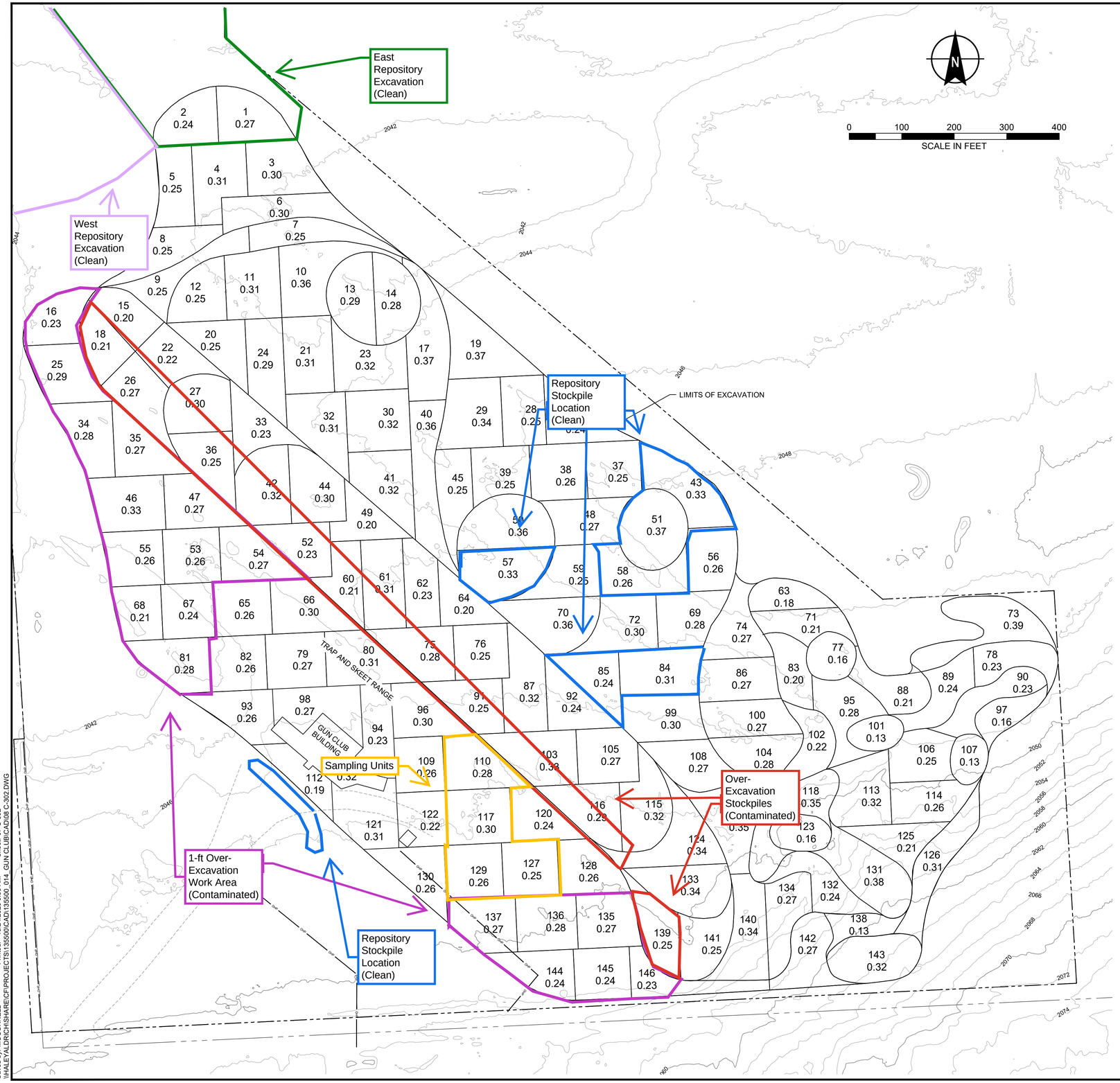
Form 3003

November 2024

Drop Off Package Receipt: of 1

ATTACHMENT **D**

Plan **Sheet Markups**



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

DFR Markup
LWP
3 December 2024

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

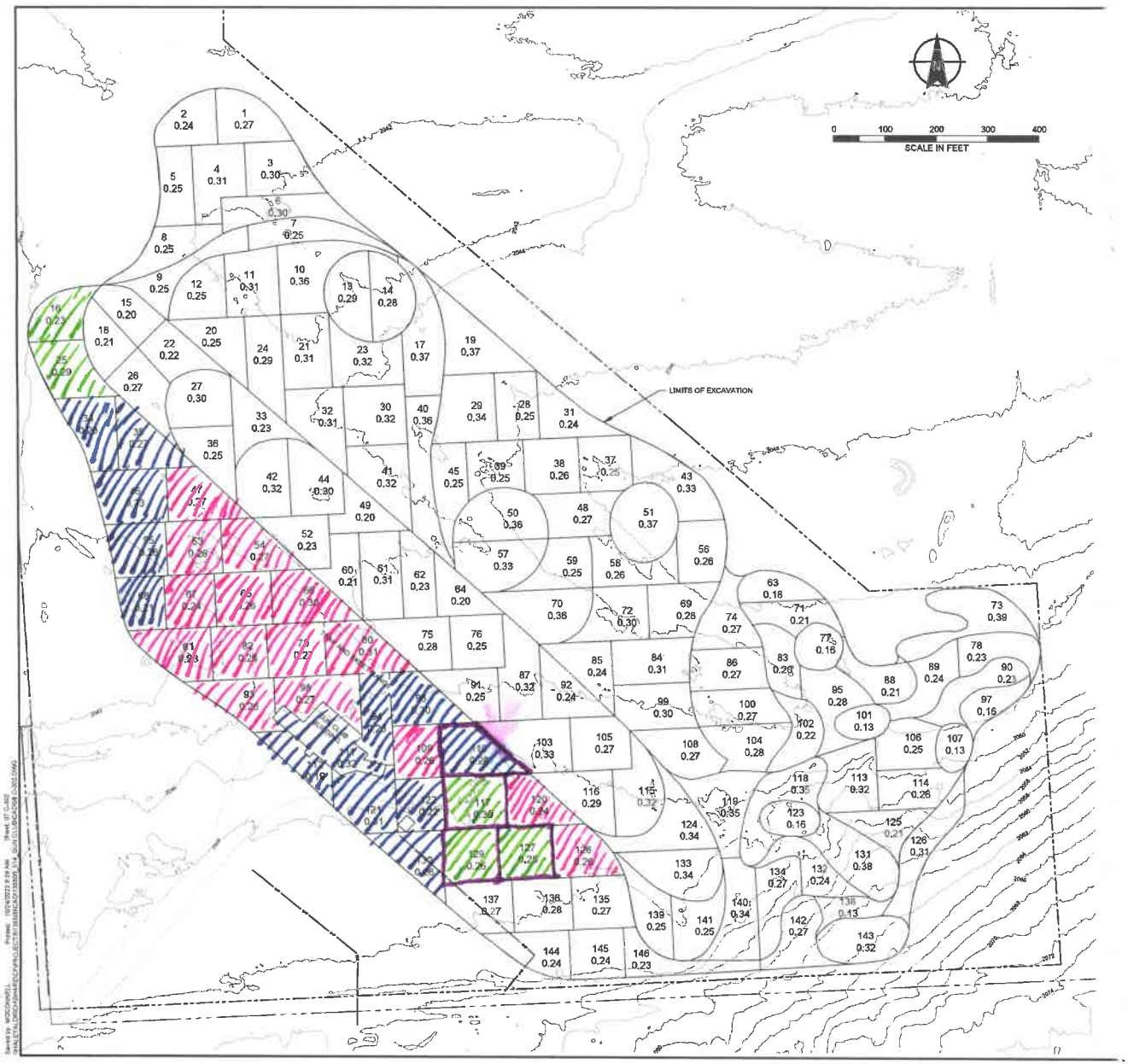
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\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

ATTACHMENT E
Over-Excavation Visual Inventory

By Observation: 2 Ft cuts

12-3-24
Over-Ex
Inventory



Good/Bad/Mixed is a visual designation only based on soil color and presence/ absence of debris. Not indicative of chemical concentrations.

- Sampled
- bad (dark soil, debris)
- mixed
- good (light soil, no debris)

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	28
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	4 December 2024
Client	Central Valley School District	**Page**	1 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast	**Temperature**	31°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation
Haley & Aldrich observed HALME continue over-excavating 1 foot of soil from contaminated units on the SE portion of the site. The excavated soil was pushed into stockpiles running through the middle of the site.

b. Repository Excavation
Haley & Aldrich observed HALME continue excavation on the east and west sides of the repository, with an access road separating the two sides. The clean repository dirt from the east side was hauled to units verified as clean and dumped into stockpiles, while the clean repository dirt from the west side was transported to both the stockpile near the garage and a stockpile right next to the repository.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of earthwork today and operated from 07:15 to 15:30. Samsara DM 47181 was positioned upwind of site work and DM 49913 was positioned downwind of site work. The relative humidity in the morning was approximately 89% and the wind was to the southwest.

Dust levels did not exceed the threshold of 2.5 mg/m^3 total particulates at the downwind property boundary. However, they did exceed the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Both the upwind and downwind monitors reported nearly the same dust concentrations within a reasonable level of variance. This can be attributed to the day's high humidity level, where water vapor interferes with the monitors' ability to accurately record air particulate concentrations. After subtracting upwind measurements from downwind measurements, the 0.025 mg/m^3 PM_{10} 120-minute rolling average was not exceeded. Dust monitoring data is attached.

III. CONFIRMATION SAMPLING:

Confirmation sampling was not conducted today.

Discussions:

Name	**Topic**
HALME, H&A	06:55 HALME held a morning safety meeting, where they discussed plans for up to three separate stockpiles near the garage. They also mentioned that CVSD requested that the first three doors of the garage not be blocked.

ATTACHMENTS:
A – Photo Log
B – Dust Monitoring Data
C – Plan Sheet Markups
D – Over-Excavation Visual Inventory

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	28
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	4 December 2024
Client	Central Valley School District	**Page**	2 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast	**Temperature**	31°F

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden, EIT	6	0.75	6.75

Distribution:
CVSD; Attn: Jay Rowell, OAC; Attn: Jeff Jurgensen



https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2024/12_04_2024_LWP_DFR_28/12_04_24_LWP_DFR_28.docx

Haley & Aldrich, Inc.

ATTACHMENT A
Photo Log



Photo 01. Downwind dust monitor.



Photo 02. Upwind dust monitor.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Partially-completed 1-ft over-excavation of SE portion of site.



Photo 04. Continued 1-ft over-excavation of SE portion of site, facing NE.

Site Photographs- Date	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 05. Continued 1-ft over-excavation of SE portion of site, facing E.



Photo 06. Eastern repository excavation, facing NW.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 07. Eastern repository excavation, facing north.



Photo 08. Western repository excavation.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 09. Eastern repository dirt stockpiled on clean units.



Photo 10. Western repository dirt stockpiled right next to repository, facing northwest.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 11. Western repository dirt stockpiled right next to repository, facing north.



Photo 12. Western repository dirt stockpiled near garage, just before reaching contaminated units.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 13. Excavator helping to get a scraper unstuck on top of garage stockpile.

Site Photographs – 4 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
Dust Monitoring Data

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Mobilized Site Dust (DW-UW)
Upwind (UW)									
Modem 47181	12/4/2024 19:50	12/4/2024 20:00	0.027	0.027	0.027	0.028	0.028	0.028	
Modem 47181	12/4/2024 19:40	12/4/2024 19:50	0.027	0.027	0.027	0.028	0.028	0.028	
Modem 47181	12/4/2024 19:30	12/4/2024 19:40	0.027	0.027	0.027	0.028	0.028	0.028	
Modem 47181	12/4/2024 19:20	12/4/2024 19:30	0.027	0.027	0.027	0.028	0.028	0.028	
Modem 47181	12/4/2024 19:10	12/4/2024 19:20	0.027	0.027	0.027	0.028	0.028	0.029	
Modem 47181	12/4/2024 19:00	12/4/2024 19:10	0.027	0.027	0.027	0.028	0.028	0.029	
Modem 47181	12/4/2024 18:50	12/4/2024 19:00	0.027	0.027	0.027	0.028	0.028	0.030	
Modem 47181	12/4/2024 18:40	12/4/2024 18:50	0.027	0.027	0.027	0.028	0.028	0.030	
Modem 47181	12/4/2024 18:30	12/4/2024 18:40	0.027	0.027	0.027	0.028	0.028	0.030	
Modem 47181	12/4/2024 18:20	12/4/2024 18:30	0.027	0.027	0.027	0.028	0.028	0.030	
Modem 47181	12/4/2024 18:10	12/4/2024 18:20	0.027	0.027	0.027	0.028	0.028	0.030	
Modem 47181	12/4/2024 18:00	12/4/2024 18:10	0.025	0.025	0.025	0.025	0.025	0.030	
Modem 47181	12/4/2024 17:50	12/4/2024 18:00	0.030	0.030	0.030	0.030	0.030	0.030	
Modem 47181	12/4/2024 17:40	12/4/2024 17:50	0.030	0.030	0.030	0.030	0.031	0.029	
Modem 47181	12/4/2024 17:30	12/4/2024 17:40	0.028	0.028	0.028	0.028	0.028	0.029	
Modem 47181	12/4/2024 17:20	12/4/2024 17:30	0.029	0.030	0.030	0.030	0.030	0.029	
Modem 47181	12/4/2024 17:10	12/4/2024 17:20	0.035	0.035	0.035	0.035	0.035	0.028	
Modem 47181	12/4/2024 17:00	12/4/2024 17:10	0.031	0.031	0.031	0.032	0.032	0.028	
Modem 47181	12/4/2024 16:50	12/4/2024 17:00	0.033	0.033	0.033	0.034	0.034	0.027	
Modem 47181	12/4/2024 16:40	12/4/2024 16:50	0.034	0.034	0.034	0.034	0.034	0.027	
Modem 47181	12/4/2024 16:30	12/4/2024 16:40	0.029	0.029	0.029	0.029	0.029	0.026	
Modem 47181	12/4/2024 16:20	12/4/2024 16:30	0.027	0.027	0.027	0.027	0.027	0.026	
Modem 47181	12/4/2024 16:10	12/4/2024 16:20	0.026	0.026	0.027	0.027	0.027	0.025	
Modem 47181	12/4/2024 16:00	12/4/2024 16:10	0.026	0.027	0.027	0.027	0.027	0.025	
Modem 47181	12/4/2024 15:50	12/4/2024 16:00	0.025	0.025	0.025	0.025	0.025	0.025	
Modem 47181	12/4/2024 15:40	12/4/2024 15:50	0.023	0.023	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 15:30	12/4/2024 15:40	0.024	0.024	0.024	0.025	0.025	0.024	
Modem 47181	12/4/2024 15:20	12/4/2024 15:30	0.024	0.024	0.025	0.025	0.025	0.024	

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Mobilized Site Dust (DW-UW)
Modem 47181	12/4/2024 15:10	12/4/2024 15:20	0.025	0.025	0.025	0.026	0.026	0.024	
Modem 47181	12/4/2024 15:00	12/4/2024 15:10	0.026	0.026	0.026	0.026	0.026	0.024	
Modem 47181	12/4/2024 14:50	12/4/2024 15:00	0.025	0.025	0.026	0.026	0.026	0.024	
Modem 47181	12/4/2024 14:40	12/4/2024 14:50	0.026	0.026	0.026	0.026	0.026	0.024	
Modem 47181	12/4/2024 14:30	12/4/2024 14:40	0.024	0.025	0.025	0.025	0.025	0.024	
Modem 47181	12/4/2024 14:20	12/4/2024 14:30	0.023	0.023	0.023	0.023	0.023	0.024	
Modem 47181	12/4/2024 14:10	12/4/2024 14:20	0.021	0.021	0.021	0.022	0.022	0.024	
Modem 47181	12/4/2024 14:00	12/4/2024 14:10	0.022	0.022	0.023	0.023	0.023	0.024	
Modem 47181	12/4/2024 13:50	12/4/2024 14:00	0.023	0.023	0.023	0.023	0.023	0.024	
Modem 47181	12/4/2024 13:40	12/4/2024 13:50	0.022	0.022	0.022	0.022	0.022	0.024	
Modem 47181	12/4/2024 13:30	12/4/2024 13:40	0.024	0.024	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 13:20	12/4/2024 13:30	0.024	0.024	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 13:10	12/4/2024 13:20	0.024	0.024	0.025	0.025	0.025	0.024	
Modem 47181	12/4/2024 13:00	12/4/2024 13:10	0.024	0.024	0.025	0.025	0.025	0.024	
Modem 47181	12/4/2024 12:50	12/4/2024 13:00	0.023	0.024	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 12:40	12/4/2024 12:50	0.023	0.023	0.024	0.024	0.024	0.022	
Modem 47181	12/4/2024 12:30	12/4/2024 12:40	0.023	0.023	0.024	0.024	0.025	0.023	
Modem 47181	12/4/2024 12:20	12/4/2024 12:30	0.024	0.024	0.025	0.025	0.025	0.023	
Modem 47181	12/4/2024 12:10	12/4/2024 12:20	0.023	0.024	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 12:00	12/4/2024 12:10	0.024	0.024	0.024	0.024	0.024	0.024	
Modem 47181	12/4/2024 11:50	12/4/2024 12:00	0.023	0.023	0.023	0.024	0.024		
Modem 47181	12/4/2024 11:40	12/4/2024 11:50	0.023	0.023	0.023	0.024	0.024		
Modem 47181	12/4/2024 11:30	12/4/2024 11:40	0.023	0.024	0.024	0.024	0.024		
Modem 47181	12/4/2024 11:20	12/4/2024 11:30	0.023	0.023	0.024	0.024	0.024		
Modem 47181	12/4/2024 11:10	12/4/2024 11:20	0.022	0.022	0.023	0.023	0.023		
Modem 47181	12/4/2024 11:00	12/4/2024 11:10	0.023	0.023	0.023	0.023	0.023		
Modem 47181	12/4/2024 10:50	12/4/2024 11:00	0.023	0.024	0.024	0.024	0.024		
Modem 47181	12/4/2024 10:40	12/4/2024 10:50	0.000	0.000	0.000	0.000	0.000		
Modem 47181	12/4/2024 10:30	12/4/2024 10:40	0.030	0.030	0.030	0.031	0.031		

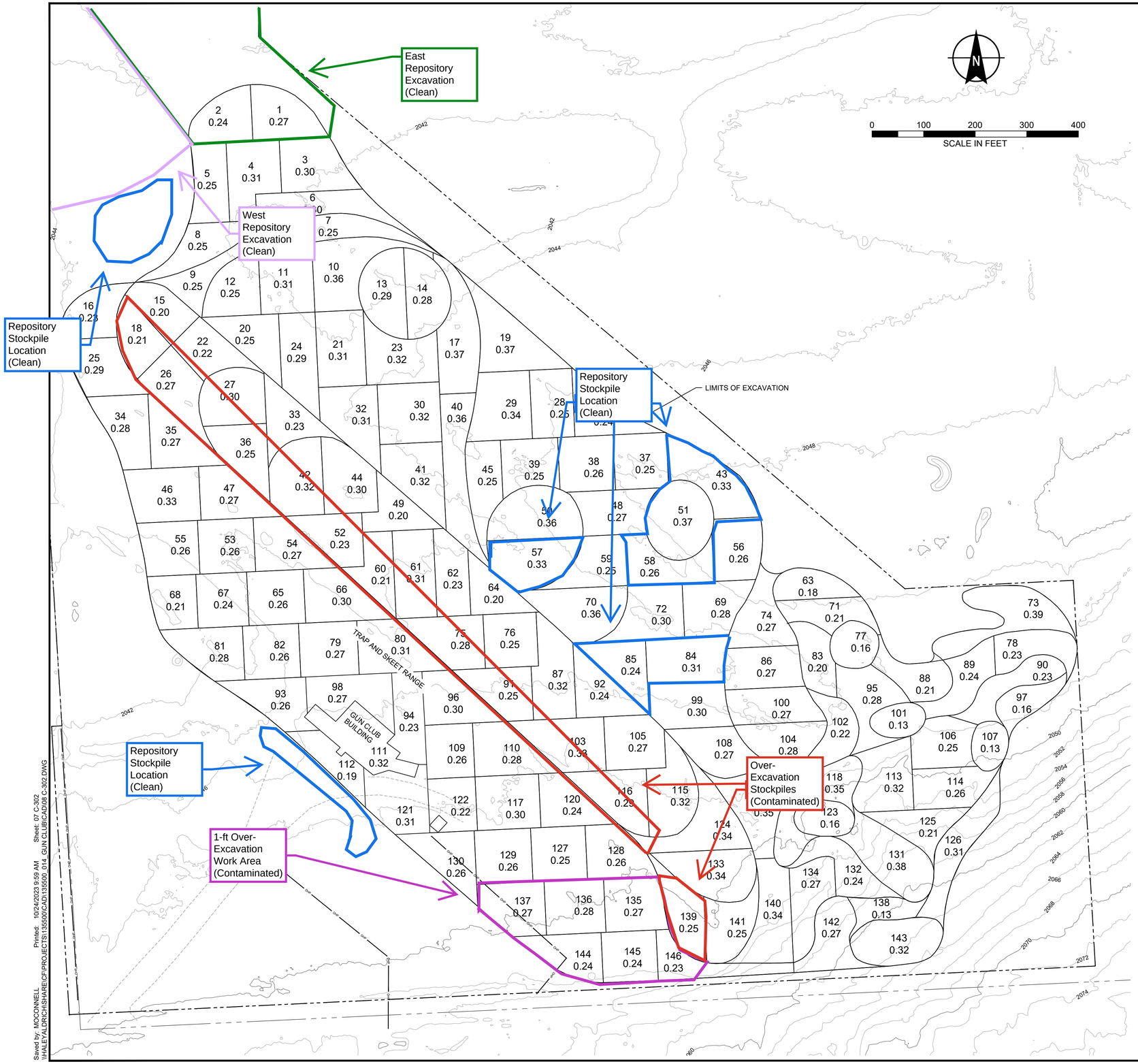
Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Mobilized Site Dust (DW-UW)
Modem 47181	12/4/2024 10:20	12/4/2024 10:30	0.030	0.030	0.030	0.031	0.031		
Modem 47181	12/4/2024 10:10	12/4/2024 10:20	0.030	0.030	0.030	0.031	0.031		
Modem 47181	12/4/2024 10:00	12/4/2024 10:10	0.030	0.030	0.030	0.031	0.031		
Downwind (DW)									
Modem 49913	12/4/2024 19:50	12/4/2024 20:00	0.000	0.000	0.000	0.000	0.000	0.006	-0.021
Modem 49913	12/4/2024 19:40	12/4/2024 19:50	0.000	0.000	0.000	0.000	0.000	0.009	-0.020
Modem 49913	12/4/2024 19:30	12/4/2024 19:40	0.000	0.000	0.000	0.000	0.000	0.011	-0.018
Modem 49913	12/4/2024 19:20	12/4/2024 19:30	0.000	0.000	0.000	0.000	0.000	0.013	-0.016
Modem 49913	12/4/2024 19:10	12/4/2024 19:20	0.000	0.000	0.000	0.000	0.000	0.015	-0.014
Modem 49913	12/4/2024 19:00	12/4/2024 19:10	0.000	0.000	0.000	0.000	0.000	0.018	-0.011
Modem 49913	12/4/2024 18:50	12/4/2024 19:00	0.000	0.000	0.000	0.000	0.000	0.021	-0.009
Modem 49913	12/4/2024 18:40	12/4/2024 18:50	0.000	0.000	0.000	0.000	0.000	0.023	-0.007
Modem 49913	12/4/2024 18:30	12/4/2024 18:40	0.000	0.000	0.000	0.000	0.000	0.025	-0.005
Modem 49913	12/4/2024 18:20	12/4/2024 18:30	0.000	0.000	0.000	0.000	0.000	0.027	-0.003
Modem 49913	12/4/2024 18:10	12/4/2024 18:20	0.027	0.028	0.028	0.028	0.028	0.029	-0.001
Modem 49913	12/4/2024 18:00	12/4/2024 18:10	0.025	0.025	0.025	0.025	0.025	0.029	-0.001
Modem 49913	12/4/2024 17:50	12/4/2024 18:00	0.030	0.031	0.031	0.031	0.031	0.029	-0.001
Modem 49913	12/4/2024 17:40	12/4/2024 17:50	0.027	0.027	0.027	0.027	0.027	0.028	-0.001
Modem 49913	12/4/2024 17:30	12/4/2024 17:40	0.026	0.026	0.026	0.027	0.027	0.028	-0.001
Modem 49913	12/4/2024 17:20	12/4/2024 17:30	0.026	0.026	0.027	0.027	0.027	0.028	-0.001
Modem 49913	12/4/2024 17:10	12/4/2024 17:20	0.033	0.033	0.033	0.034	0.034	0.027	-0.001
Modem 49913	12/4/2024 17:00	12/4/2024 17:10	0.031	0.031	0.031	0.031	0.031	0.027	-0.001
Modem 49913	12/4/2024 16:50	12/4/2024 17:00	0.035	0.036	0.036	0.037	0.037	0.026	-0.001
Modem 49913	12/4/2024 16:40	12/4/2024 16:50	0.028	0.029	0.029	0.029	0.029	0.025	-0.002
Modem 49913	12/4/2024 16:30	12/4/2024 16:40	0.026	0.026	0.026	0.027	0.027	0.025	-0.001
Modem 49913	12/4/2024 16:20	12/4/2024 16:30	0.027	0.027	0.028	0.028	0.028	0.024	-0.001
Modem 49913	12/4/2024 16:10	12/4/2024 16:20	0.026	0.026	0.026	0.026	0.026	0.024	-0.001
Modem 49913	12/4/2024 16:00	12/4/2024 16:10	0.026	0.026	0.026	0.026	0.026	0.024	-0.001

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Mobilized Site Dust (DW-UW)
Modem 49913	12/4/2024 15:50	12/4/2024 16:00	0.025	0.026	0.026	0.026	0.026	0.024	-0.001
Modem 49913	12/4/2024 15:40	12/4/2024 15:50	0.022	0.023	0.023	0.023	0.023	0.025	0.001
Modem 49913	12/4/2024 15:30	12/4/2024 15:40	0.023	0.023	0.023	0.023	0.023	0.025	0.001
Modem 49913	12/4/2024 15:20	12/4/2024 15:30	0.023	0.023	0.023	0.023	0.023	0.026	0.002
Modem 49913	12/4/2024 15:10	12/4/2024 15:20	0.023	0.023	0.023	0.023	0.023	0.026	0.002
Modem 49913	12/4/2024 15:00	12/4/2024 15:10	0.024	0.024	0.024	0.024	0.024	0.026	0.002
Modem 49913	12/4/2024 14:50	12/4/2024 15:00	0.024	0.024	0.024	0.024	0.024	0.026	0.002
Modem 49913	12/4/2024 14:40	12/4/2024 14:50	0.024	0.024	0.024	0.024	0.024	0.026	0.002
Modem 49913	12/4/2024 14:30	12/4/2024 14:40	0.024	0.024	0.024	0.024	0.024	0.026	0.002
Modem 49913	12/4/2024 14:20	12/4/2024 14:30	0.021	0.021	0.022	0.022	0.022	0.027	0.003
Modem 49913	12/4/2024 14:10	12/4/2024 14:20	0.024	0.024	0.025	0.025	0.025	0.027	0.003
Modem 49913	12/4/2024 14:00	12/4/2024 14:10	0.023	0.023	0.023	0.024	0.024	0.027	0.003
Modem 49913	12/4/2024 13:50	12/4/2024 14:00	0.022	0.022	0.022	0.022	0.022	0.027	0.003
Modem 49913	12/4/2024 13:40	12/4/2024 13:50	0.045	0.046	0.046	0.047	0.047	0.027	0.003
Modem 49913	12/4/2024 13:30	12/4/2024 13:40	0.024	0.024	0.025	0.025	0.025	0.027	0.002
Modem 49913	12/4/2024 13:20	12/4/2024 13:30	0.027	0.028	0.028	0.029	0.029	0.027	0.003
Modem 49913	12/4/2024 13:10	12/4/2024 13:20	0.026	0.026	0.026	0.027	0.027	0.029	0.005
Modem 49913	12/4/2024 13:00	12/4/2024 13:10	0.024	0.024	0.024	0.024	0.024	0.029	0.005
Modem 49913	12/4/2024 12:50	12/4/2024 13:00	0.023	0.023	0.023	0.023	0.023	0.035	0.011
Modem 49913	12/4/2024 12:40	12/4/2024 12:50	0.024	0.024	0.024	0.024	0.024	0.035	0.013
Modem 49913	12/4/2024 12:30	12/4/2024 12:40	0.024	0.024	0.025	0.025	0.025	0.036	0.013
Modem 49913	12/4/2024 12:20	12/4/2024 12:30	0.028	0.029	0.029	0.029	0.029	0.036	0.013
Modem 49913	12/4/2024 12:10	12/4/2024 12:20	0.027	0.028	0.028	0.028	0.028	0.036	0.012
Modem 49913	12/4/2024 12:00	12/4/2024 12:10	0.023	0.024	0.024	0.024	0.024	0.036	0.011
Modem 49913	12/4/2024 11:50	12/4/2024 12:00	0.026	0.027	0.027	0.027	0.027		
Modem 49913	12/4/2024 11:40	12/4/2024 11:50	0.024	0.024	0.024	0.025	0.025		
Modem 49913	12/4/2024 11:30	12/4/2024 11:40	0.036	0.036	0.036	0.036	0.036		
Modem 49913	12/4/2024 11:20	12/4/2024 11:30	0.030	0.030	0.030	0.031	0.031		
Modem 49913	12/4/2024 11:10	12/4/2024 11:20	0.055	0.055	0.055	0.056	0.056		

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	Mobilized Site Dust (DW-UW)
Modem 49913	12/4/2024 11:00	12/4/2024 11:10	0.028	0.028	0.028	0.029	0.029		
Modem 49913	12/4/2024 10:50	12/4/2024 11:00	0.090	0.091	0.091	0.092	0.092		
Modem 49913	12/4/2024 10:40	12/4/2024 10:50	0.029	0.030	0.030	0.030	0.030		
Modem 49913	12/4/2024 10:30	12/4/2024 10:40	0.030	0.030	0.030	0.031	0.031		
Modem 49913	12/4/2024 10:20	12/4/2024 10:30	0.026	0.027	0.027	0.027	0.027		
Modem 49913	12/4/2024 10:10	12/4/2024 10:20	0.026	0.027	0.027	0.027	0.027		
Modem 49913	12/4/2024 10:00	12/4/2024 10:10	0.026	0.027	0.027	0.027	0.027		

ATTACHMENT **C**

Plan **Sheet Markups**



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

DFR Markup
LWP
3 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

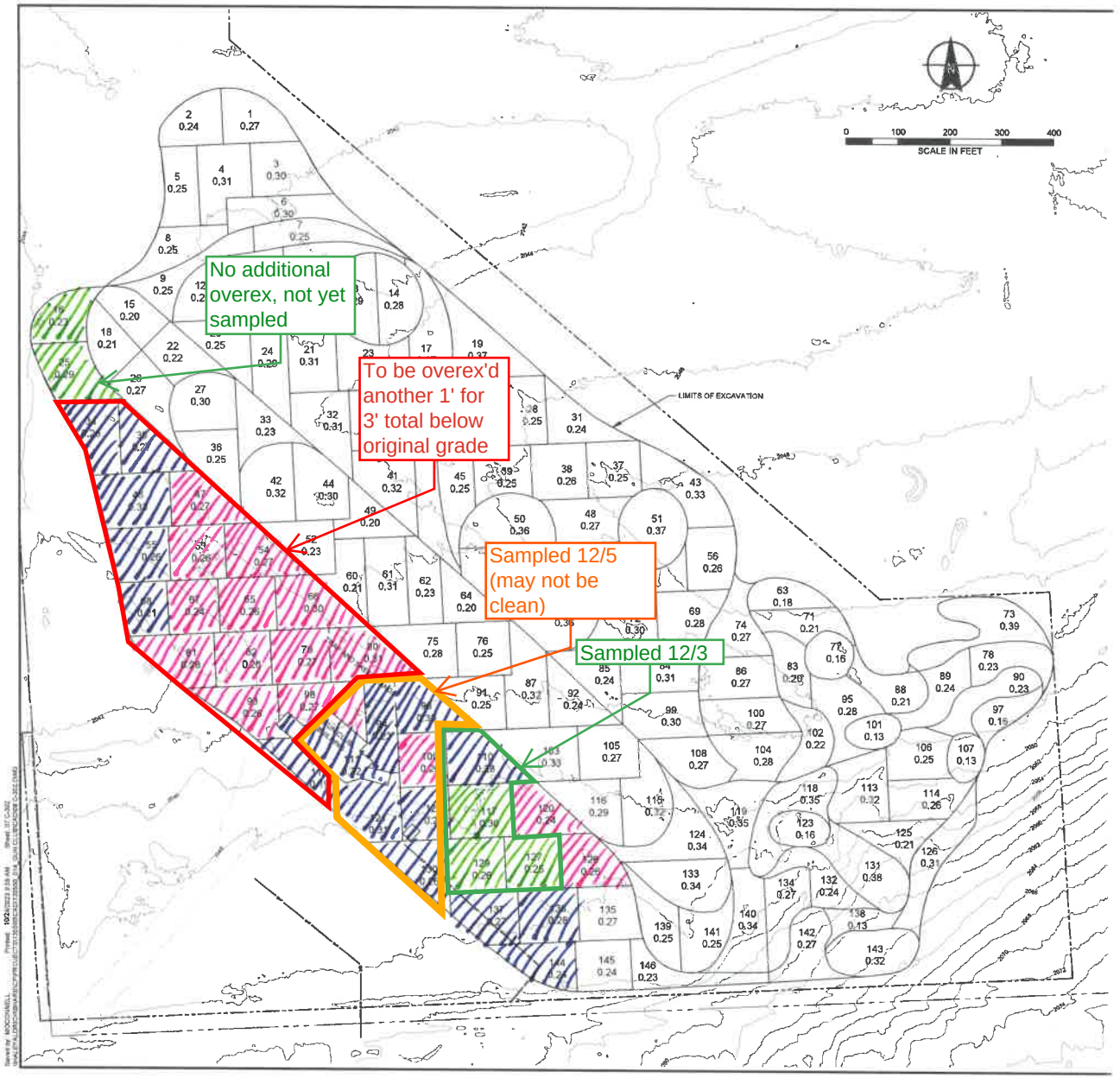
Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

ATTACHMENT D
Over-Excavation Visual Inventory

By observation: 2 ft cuts

12-4-24
Over-Ex
Inventory



Good/Bad/Mixed is a visual classification based on color and presence/absence of debris. It is not indicative of chemical concentrations.

▨ - bad (dark soil, debris)

▨ - good (light soil, no debris)

▨ - mixed

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	29
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	5 December 2024
Client	Central Valley School District	**Page**	1 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast, light Rain	**Temperature**	30-32°

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation

Halme began in the morning by making additional cuts at approximately sampling units 136 and 128 ultimately cutting these units down to meet the 2-foot below ground surface cut depth of surrounding units. Contaminated material from these excavation activities is stockpiled on the west border of unit 124. These excavation activities ceased at noon.

b. Repository Excavation

Halme began in the morning utilizing one excavator and one dozer to excavate the repository. Two Haul trucks were utilized to transport and stockpile clean backfill material onto units that have received clean confirmation results. These excavation operations lasted the length of the excavation day.

c. Backfill

Backfill was deposited on sampling units that received clean contamination samples along the southeast border of the sampling units. This clean fill material is being stored on the following sampling units: 43, 51, 58, 57, 70, 85, 63, and 71 in preparation for backfilling sampling units that receive clean confirmation results.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was upwind, and Unit 47181 was downwind. It was noted today that the relative humidity in the morning was approximately 90% and the wind direction was east to west.

It was observed that dust levels did not exceed the threshold of 2.5 mg/m^3 total particulates at the property boundary today. However, the PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and light rainfall. In the occurrences where the 120-minute rolling average was exceeded, light rainfall and fog were observed in the excavation area. Haley and Aldrich calculated the variance between the upwind and downwind dust data. The variance never exceeded 0.025 mg/m^3, showing that the downwind dust monitor was not recording more airborne particulates than the upwind dust monitor. Dust monitoring data is attached.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	29
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	5 December 2024
Client	Central Valley School District	**Page**	2 of 2
Contractor	HALME	**File No.**	0202349
Weather	Overcast, light Rain	**Temperature**	30-32°

III. CONFIRMATION SAMPLING:

Sample Name	Analysis	Time	Notes
CP_121_2	cPAHs	11:30	Visible striping between light and dark-colored soils.
CP_109_2	cPAHs	12:00	Visible striping between light and dark-colored soils.
CP_94_2	cPAHs	12:30	Unit has visible orange pigeon debris. Visible striping between light and dark-colored soils.
CP_111_2	cPAHs	13:00	Unit has visible orange pigeon debris. Visible striping between light and dark-colored soils.

Samples collected today were shipped to Friedman and Bruya on 12-05-24 via UPS.

Discussions:

Name	Topic
HALME, H&A	Haley & Aldrich spoke with HALME construction after construction activities ended to recap and verify construction progress made today, 12/05/2024.

ATTACHMENTS:
Attachment A – Photo Log
Attachment B – Dust Monitoring Data
Attachment C – Plan Sheet Markups
Attachment D – Chain of Custody

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	9.25	1.00	10.25

Distribution:

CVSD; Attn: Jay Rowell, OAC; Attn: Jeff Jurgensen



https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2024/12_05_2024_CL_DFR_29/12-05-24 DFR.docx

Haley & Aldrich, Inc.

ATTACHMENT A
Photo Log



Photo 1. Stockpiled clean material at approximately sampling unit 57 and 70. (View looking west)



Photo 2. Stockpiled clean material at approximately sampling unit 43 and 51. (View Looking south west)

Site Photographs – 5 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Excavation progress of the repository. (View looking west)



Photo 4. Approximate sampling units 126 and 138 where additional 2 foot cuts were made. Contaminates stockpile in view located on the west border of sampling unit 124. (View looking west from approximate sampling unit 137)

Site Photographs – 5 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
Dust Monitoring Data

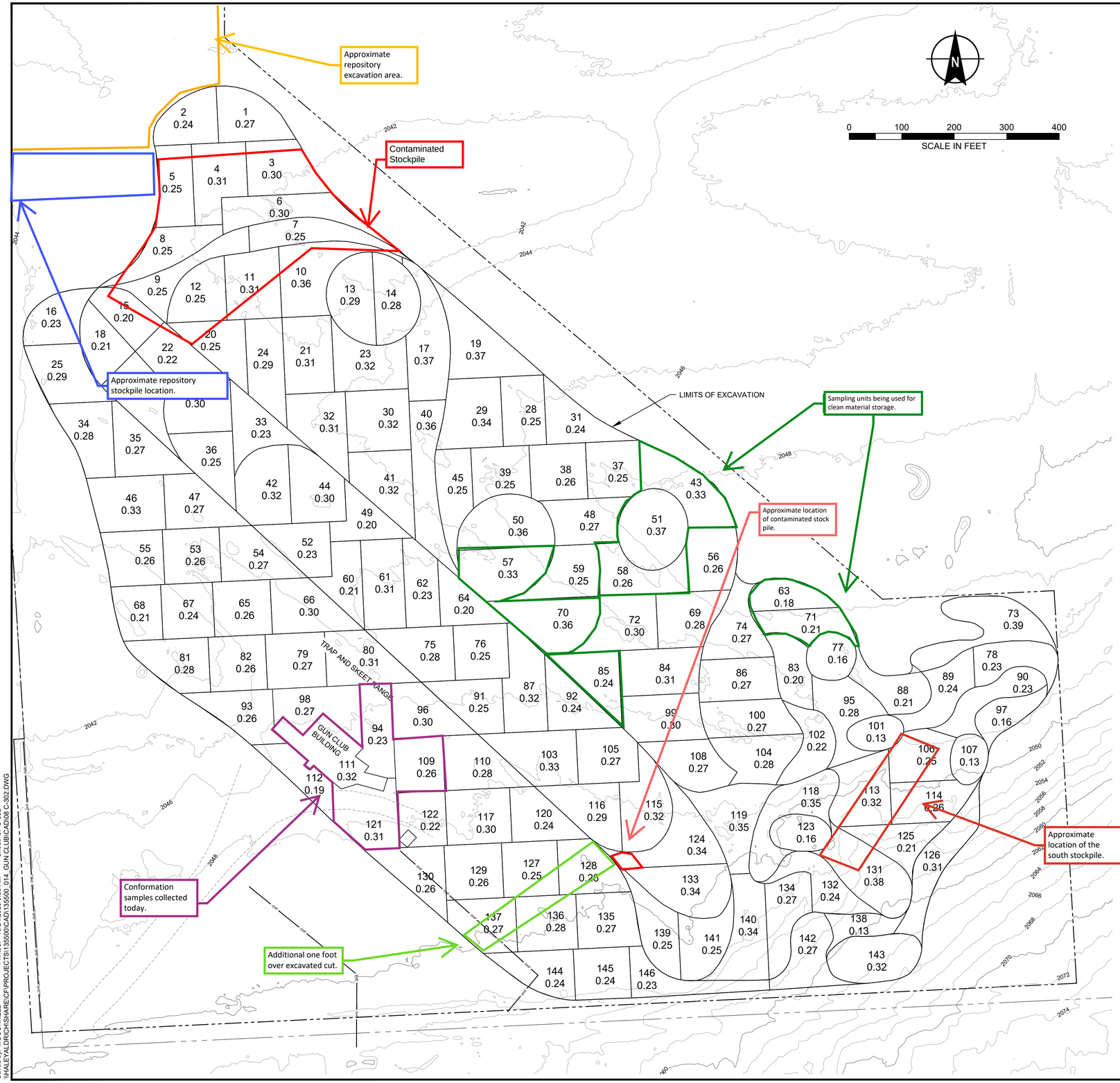
Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.	Upwind-Downwind variance
	(EST)	(EST)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Upwind									
Modem 47181	12/5/2024 18:30	12/5/2024 18:40	0.03	0.03	0.031	0.031	0.031	0.033	0.000
Modem 47181	12/5/2024 18:20	12/5/2024 18:30	0.029	0.029	0.029	0.029	0.029	0.033	0.000
Modem 47181	12/5/2024 18:10	12/5/2024 18:20	0.036	0.037	0.037	0.038	0.038	0.034	0.000
Modem 47181	12/5/2024 18:00	12/5/2024 18:10	0.026	0.026	0.027	0.027	0.027	0.034	0.001
Modem 47181	12/5/2024 17:50	12/5/2024 18:00	0.034	0.035	0.036	0.041	0.041	0.037	0.003
Modem 47181	12/5/2024 17:40	12/5/2024 17:50	0.032	0.032	0.032	0.032	0.032	0.036	0.002
Modem 47181	12/5/2024 17:30	12/5/2024 17:40	0.026	0.027	0.027	0.027	0.028	0.037	0.002
Modem 47181	12/5/2024 17:20	12/5/2024 17:30	0.028	0.028	0.029	0.029	0.029	0.037	0.002
Modem 47181	12/5/2024 17:10	12/5/2024 17:20	0.028	0.028	0.028	0.028	0.028	0.037	0.002
Modem 47181	12/5/2024 17:00	12/5/2024 17:10	0.033	0.033	0.033	0.034	0.034	0.038	0.002
Modem 47181	12/5/2024 16:50	12/5/2024 17:00	0.038	0.038	0.038	0.039	0.039	0.037	0.002
Modem 47181	12/5/2024 16:40	12/5/2024 16:50	0.033	0.033	0.034	0.034	0.035	0.039	0.004
Modem 47181	12/5/2024 16:30	12/5/2024 16:40	0.035	0.035	0.036	0.037	0.037	0.040	0.005
Modem 47181	12/5/2024 16:20	12/5/2024 16:30	0.036	0.037	0.037	0.038	0.038	0.040	0.005
Modem 47181	12/5/2024 16:10	12/5/2024 16:20	0.035	0.036	0.036	0.037	0.037	0.040	0.006
Modem 47181	12/5/2024 16:00	12/5/2024 16:10	0.042	0.042	0.042	0.043	0.043	0.040	0.006
Modem 47181	12/5/2024 15:50	12/5/2024 16:00	0.056	0.056	0.056	0.057	0.057	0.039	0.006
Modem 47181	12/5/2024 15:40	12/5/2024 15:50	0.033	0.033	0.033	0.033	0.033	0.037	0.004
Modem 47181	12/5/2024 15:30	12/5/2024 15:40	0.035	0.036	0.036	0.037	0.038	0.037	0.004
Modem 47181	12/5/2024 15:20	12/5/2024 15:30	0.032	0.032	0.032	0.033	0.033	0.036	0.003
Modem 47181	12/5/2024 15:10	12/5/2024 15:20	0.032	0.032	0.032	0.032	0.032	0.035	0.003
Modem 47181	12/5/2024 15:00	12/5/2024 15:10	0.032	0.032	0.032	0.032	0.032	0.035	0.003
Modem 47181	12/5/2024 14:50	12/5/2024 15:00	0.031	0.032	0.032	0.032	0.032	0.035	0.003
Modem 47181	12/5/2024 14:40	12/5/2024 14:50	0.06	0.06	0.06	0.061	0.061	0.037	0.006
Modem 47181	12/5/2024 14:30	12/5/2024 14:40	0.049	0.049	0.05	0.05	0.05	0.034	0.004
Modem 47181	12/5/2024 14:20	12/5/2024 14:30	0.031	0.031	0.032	0.032	0.032	0.033	0.003
Modem 47181	12/5/2024 14:10	12/5/2024 14:20	0.033	0.034	0.034	0.035	0.036	0.033	0.003
Modem 47181	12/5/2024 14:00	12/5/2024 14:10	0.033	0.033	0.034	0.036	0.036	0.033	0.002
Modem 47181	12/5/2024 13:50	12/5/2024 14:00	0.031	0.031	0.031	0.032	0.032	0.032	0.002
Modem 47181	12/5/2024 13:40	12/5/2024 13:50	0.03	0.031	0.031	0.031	0.031	0.032	0.002
Modem 47181	12/5/2024 13:30	12/5/2024 13:40	0.03	0.03	0.03	0.031	0.031	0.032	0.002
Modem 47181	12/5/2024 13:20	12/5/2024 13:30	0.027	0.027	0.027	0.028	0.028	0.033	0.002
Modem 47181	12/5/2024 13:10	12/5/2024 13:20	0.027	0.027	0.027	0.027	0.027	0.034	0.004
Modem 47181	12/5/2024 13:00	12/5/2024 13:10	0.026	0.026	0.026	0.026	0.026	0.036	0.006
Modem 47181	12/5/2024 12:50	12/5/2024 13:00	0.027	0.027	0.027	0.027	0.027	0.036	0.006
Modem 47181	12/5/2024 12:40	12/5/2024 12:50	0.059	0.059	0.06	0.061	0.062	0.034	0.003
Modem 47181	12/5/2024 12:30	12/5/2024 12:40	0.029	0.029	0.029	0.029	0.029	0.032	0.001
Modem 47181	12/5/2024 12:20	12/5/2024 12:30	0.035	0.036	0.036	0.038	0.038	0.032	0.001

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.	Upwind-Downwind variance
	(EST)	(EST)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 47181	12/5/2024 12:10	12/5/2024 12:20	0.029	0.029	0.029	0.029	0.029	0.031	0.002
Modem 47181	12/5/2024 12:00	12/5/2024 12:10	0.03	0.03	0.031	0.031	0.031	0.031	0.005
Modem 47181	12/5/2024 11:50	12/5/2024 12:00	0.029	0.029	0.029	0.029	0.03		
Modem 47181	12/5/2024 11:40	12/5/2024 11:50	0.032	0.032	0.032	0.032	0.032		
Modem 47181	12/5/2024 11:30	12/5/2024 11:40	0.03	0.03	0.031	0.031	0.031		
Modem 47181	12/5/2024 11:20	12/5/2024 11:30	0.032	0.033	0.033	0.035	0.035		
Modem 47181	12/5/2024 11:10	12/5/2024 11:20	0.048	0.048	0.048	0.049	0.049		
Modem 47181	12/5/2024 11:00	12/5/2024 11:10	0.047	0.048	0.048	0.048	0.048		
Modem 47181	12/5/2024 10:50	12/5/2024 11:00	0.03	0.03	0.03	0.031	0.031		
Modem 47181	12/5/2024 10:40	12/5/2024 10:50	0	0	0	0	0		
Modem 47181	12/5/2024 10:30	12/5/2024 10:40	0.027	0.027	0.027	0.028	0.028		
Modem 47181	12/5/2024 10:20	12/5/2024 10:30	0.027	0.027	0.027	0.028	0.028		
Modem 47181	12/5/2024 10:10	12/5/2024 10:20	0.027	0.027	0.027	0.028	0.028		
Modem 47181	12/5/2024 10:00	12/5/2024 10:10	0.027	0.027	0.027	0.028	0.028		
Downwind									
Modem 49913	12/5/2024 18:30	12/5/2024 18:40	0.032	0.032	0.032	0.033	0.033	0.033	
Modem 49913	12/5/2024 18:20	12/5/2024 18:30	0.031	0.031	0.031	0.031	0.031	0.033	
Modem 49913	12/5/2024 18:10	12/5/2024 18:20	0.036	0.036	0.036	0.037	0.037	0.034	
Modem 49913	12/5/2024 18:00	12/5/2024 18:10	0.035	0.036	0.036	0.037	0.037	0.034	
Modem 49913	12/5/2024 17:50	12/5/2024 18:00	0.03	0.031	0.031	0.031	0.031	0.034	
Modem 49913	12/5/2024 17:40	12/5/2024 17:50	0.027	0.028	0.028	0.028	0.028	0.034	
Modem 49913	12/5/2024 17:30	12/5/2024 17:40	0.027	0.027	0.027	0.027	0.027	0.035	
Modem 49913	12/5/2024 17:20	12/5/2024 17:30	0.032	0.032	0.032	0.033	0.033	0.035	
Modem 49913	12/5/2024 17:10	12/5/2024 17:20	0.031	0.031	0.031	0.032	0.032	0.035	
Modem 49913	12/5/2024 17:00	12/5/2024 17:10	0.03	0.03	0.031	0.031	0.031	0.035	
Modem 49913	12/5/2024 16:50	12/5/2024 17:00	0.04	0.04	0.041	0.041	0.041	0.035	
Modem 49913	12/5/2024 16:40	12/5/2024 16:50	0.032	0.032	0.032	0.033	0.033	0.035	
Modem 49913	12/5/2024 16:30	12/5/2024 16:40	0.036	0.036	0.036	0.036	0.036	0.035	
Modem 49913	12/5/2024 16:20	12/5/2024 16:30	0.035	0.035	0.035	0.036	0.036	0.034	
Modem 49913	12/5/2024 16:10	12/5/2024 16:20	0.036	0.036	0.037	0.037	0.037	0.034	
Modem 49913	12/5/2024 16:00	12/5/2024 16:10	0.036	0.036	0.036	0.036	0.036	0.034	
Modem 49913	12/5/2024 15:50	12/5/2024 16:00	0.038	0.038	0.039	0.039	0.039	0.033	
Modem 49913	12/5/2024 15:40	12/5/2024 15:50	0.033	0.033	0.034	0.034	0.034	0.032	
Modem 49913	12/5/2024 15:30	12/5/2024 15:40	0.034	0.034	0.035	0.035	0.035	0.033	
Modem 49913	12/5/2024 15:20	12/5/2024 15:30	0.032	0.033	0.033	0.033	0.033	0.032	
Modem 49913	12/5/2024 15:10	12/5/2024 15:20	0.033	0.033	0.033	0.033	0.033	0.032	
Modem 49913	12/5/2024 15:00	12/5/2024 15:10	0.033	0.033	0.033	0.034	0.034	0.032	
Modem 49913	12/5/2024 14:50	12/5/2024 15:00	0.032	0.032	0.033	0.033	0.033	0.032	

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.	Upwind-Downwind variance
	(EST)	(EST)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	12/5/2024 14:40	12/5/2024 14:50	0.032	0.033	0.033	0.033	0.033	0.031	
Modem 49913	12/5/2024 14:30	12/5/2024 14:40	0.032	0.032	0.032	0.033	0.033	0.031	
Modem 49913	12/5/2024 14:20	12/5/2024 14:30	0.031	0.031	0.031	0.032	0.032	0.031	
Modem 49913	12/5/2024 14:10	12/5/2024 14:20	0.031	0.031	0.031	0.031	0.031	0.031	
Modem 49913	12/5/2024 14:00	12/5/2024 14:10	0.03	0.03	0.03	0.031	0.031	0.031	
Modem 49913	12/5/2024 13:50	12/5/2024 14:00	0.03	0.03	0.031	0.031	0.031	0.030	
Modem 49913	12/5/2024 13:40	12/5/2024 13:50	0.029	0.029	0.029	0.029	0.029	0.030	
Modem 49913	12/5/2024 13:30	12/5/2024 13:40	0.034	0.034	0.034	0.036	0.036	0.031	
Modem 49913	12/5/2024 13:20	12/5/2024 13:30	0.031	0.031	0.032	0.032	0.033	0.030	
Modem 49913	12/5/2024 13:10	12/5/2024 13:20	0.03	0.03	0.03	0.031	0.031	0.030	
Modem 49913	12/5/2024 13:00	12/5/2024 13:10	0.03	0.031	0.031	0.031	0.031	0.030	
Modem 49913	12/5/2024 12:50	12/5/2024 13:00	0.026	0.026	0.026	0.026	0.026	0.030	
Modem 49913	12/5/2024 12:40	12/5/2024 12:50	0.027	0.027	0.027	0.027	0.027	0.031	
Modem 49913	12/5/2024 12:30	12/5/2024 12:40	0.03	0.03	0.03	0.03	0.03	0.031	
Modem 49913	12/5/2024 12:20	12/5/2024 12:30	0.03	0.03	0.03	0.031	0.031	0.031	
Modem 49913	12/5/2024 12:10	12/5/2024 12:20	0.03	0.03	0.03	0.031	0.031	0.028	
Modem 49913	12/5/2024 12:00	12/5/2024 12:10	0.03	0.03	0.03	0.03	0.03	0.026	
Modem 49913	12/5/2024 11:50	12/5/2024 12:00	0.03	0.03	0.03	0.03	0.03		
Modem 49913	12/5/2024 11:40	12/5/2024 11:50	0.03	0.03	0.031	0.031	0.031		
Modem 49913	12/5/2024 11:30	12/5/2024 11:40	0.031	0.031	0.031	0.031	0.031		
Modem 49913	12/5/2024 11:20	12/5/2024 11:30	0.032	0.032	0.032	0.032	0.032		
Modem 49913	12/5/2024 11:10	12/5/2024 11:20	0.032	0.032	0.032	0.033	0.033		
Modem 49913	12/5/2024 11:00	12/5/2024 11:10	0.031	0.031	0.031	0.032	0.032		
Modem 49913	12/5/2024 10:50	12/5/2024 11:00	0.03	0.03	0.03	0.03	0.03		
Modem 49913	12/5/2024 10:40	12/5/2024 10:50	0.032	0.032	0.032	0.032	0.032		
Modem 49913	12/5/2024 10:30	12/5/2024 10:40	0.028	0.028	0.028	0.028	0.028		
Modem 49913	12/5/2024 10:20	12/5/2024 10:30	0.029	0.029	0.029	0.029	0.029		
Modem 49913	12/5/2024 10:10	12/5/2024 10:20	0	0	0	0	0		
Modem 49913	12/5/2024 10:00	12/5/2024 10:10	0	0	0	0	0		

ATTACHMENT C

Plan **Sheet Markups**



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan
Markup CAL
5 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
\\HALEYALDRICH\SHARE\CF\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

ATTACHMENT D
Chain of Custody

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Report To: Breeyn Greer
Company:
Address: 505 West Riverside Ave. Ste 450
City, State, ZIP: Spokane, WA 99201
Phone: 612-232-7343 Email: bgreer@haleyaldrich.com

SAMPLERS (signature): Cam Luckey

PROJECT NAME: CVSD Gun Club

PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME
~~Standard Turnaround~~
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TSM Processing	cPAHs Project Specific List				Notes
CP_121_2		12-5-24	11:30	Soil	1							X	X				project specific list
CP_109_2		"	12:00	"	"							X	X				"
CP_94_2		"	12:30	"	"							X	X				"
CP_111_2		"	13:00	"	"							X	X				"

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Cameron Luckey	Haley + Aldrich	12-5-24	14:30
Received by:					
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

FORMS\COC\COC.DOC

HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	30
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	09-13 December 2024
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Overcast; Slight Breeze	**Average Temperature**	32°F

I. CLEANUP ACTIVITIES:

CL - 12/09/2024

Weather: 31°F, Slight Breeze, Overcast, Humidity 90%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today. Accordingly, dust monitors were not deployed today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material continued to be stockpiled on clean sampling units 43,51,58,59,57,70,85,63, and 71. Clean material was also being stockpiled adjacent to sampling units 73, 77, and 88, but outside the excavation boundary. Clean material was also stockpiled adjacent and east of the headwaters shop located on the west side of the site.

LWP - 12/10/2024

Weather: 32°F, Overcast, Humidity 85%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material continued to be stockpiled on all of the same units and areas as 12/09, except for Unit 57 which was not used for stockpiling today. Haley & Aldrich, Inc. (Haley & Aldrich) found that Halme had backfilled Unit 50 directly adjacent to Unit 57, which had been sampled but results had not yet been received. As such, Halme was instructed to stop all stockpiling operations on Unit 50 until the results for Unit 50 were received.

Project	Spokane Gun Club Cleanup	**Report No.**	30
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	09-13 December 2024
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Overcast; Slight Breeze	**Average Temperature**	32°F

LWP - 12/11/2024

Weather: 32°F, Partly Cloudy, Humidity 83%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today. Accordingly, dust monitors were not deployed today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material continued to be stockpiled on all of the same units and areas as 12/10, again with the exception of Unit 57. The stockpiles on clean units were flattened and then topped with more repository fill. The stockpile by the shop was extended along the road leading to the repository.

CL - 12/12/2024

Weather: 31°F, Slight Breeze, Overcast, Humidity 90%

d. Contaminated Soil Excavation:
No contaminated soil was excavated today.

e. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day. Halme informed Haley & Aldrich that they are, on average, 12 vertical feet from the original depth of the repository.

f. Backfill:
Clean material has continued to be stockpiled on clean sampling units, as well as directly adjacent and east of the headquarters shop as well as the east property boundary. The clean material stockpile adjacent and east of the shop has been extended northwest. The extent of this clean stockpile runs from the shop northwest to approximate sampling Unit 25 but on the outside of the excavation area. Clean material is also being stored on the east property boundary but outside of the excavation area.

CL - 12/13/2024

Weather: 30°F, Slight Breeze, Humidity 94%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material has been stockpiled on clean sampling units, as well as directly adjacent and east of the headquarters shop and along the east property boundary. T areas where clean material is being stockpiled did not change from the prior day. Haley & Aldrich confirmed that Halme was stockpiling clean material in approved areas.

II. DUST MONITORS:

12/9/2024 THROUGH 12/13/2024

Dust monitors were not deployed for construction due to contaminated material not being moved or excavated on this day.

III. CONFIRMATION SAMPLING:

CL - 12/9/2024

No confirmation sampling activities were conducted today.

LWP - 12/10/2024

Haley & Aldrich collected the following confirmation samples today:

Name	Time	Analysis	Cut Depth	Soil Color	Soil Texture
CP_25_2	11:20	PAHs	2	Light	Coarse
CP_16_2	11:55	PAHs	2	Light	Coarse

Samples were shipped to Friedman & Bruya, Inc. via UPS at 13:40.

HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	30
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	09-13 December 2024
Client	Central Valley School District (CVSD)	**Page**	4 of 4
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Overcast; Slight Breeze	**Average Temperature**	32°F

12/11/2024 THROUGH 12/13/2024

No confirmation sampling activities were conducted today.

Field Representative(s)	**Time on Site**	**Report/Travel/Other**	**Total Time**
Cameron Luckey (CL)	8.00 Hours	6.00 Hours	14.00 Hours
Luke Peden, E.I.T. (LWP)	8.00 Hours	4.00 Hours	12.00 Hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Site Photos
Attachment B – Chain of Custody Record
Attachment C – Site Map Markup



Haley & Aldrich, Inc.



Photo 1. Repository excavation progress on 9 December 2024, looking north.



Photo 2. Repository excavation progress on 10 December 2024, looking north.

Site Photographs — 9-13 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 3. Repository excavation progress (southern sidewall) and adjacent contaminated stockpile as of 11 December 2024.



Photo 4. Contaminated windrow progress as of 11 December 2024, looking southeast.

Site Photographs — 9-13 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 5. Contaminated windrow (foreground) and clean stockpile (background) as of 12 December 2024, looking north.



Photo 6. Clean stockpile being constructed just north of the shop with excavation to right of photo as of 12 December 2024, looking west.

Site Photographs — 9-13 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

412201

CHAIN OF CUSTODY RECORD

12/11/24 ISM/FI

Phone (509) 960-7447
Fax (509) 960-7447
Page 1 of 1

H&A FILE NO. 0202349
PROJECT NAME CVSD
H&A CONTACT Breeyn Greer

LABORATORY Friedman & Bruya
ADDRESS 5600 4th Ave S, Seattle, WA, 98108
CONTACT

DELIVERY DATE 12/10/24
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Analysis Requested: CAM Project Spec. List	Analysis Requested: ISM Processing	Analysis Requested: F&B lab ID	Number of Containers
CP_25_2	12/10/24	11:20	2 ft	Soil	X	X	01	1
CP_16_2	12/10/24	11:55	2 ft	Soil	X	X	02	1

Comments(special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

- Archive for 1 month
- CPAH Project Specific List
- ISM Processing

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Peden	Print Nhan Phan
Firm Haley & Aldrich	Firm FedEx
Date 12/10/24 Time 13:40	Date 12/11/24 Time 1315

Relinquished by	Received by
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

Relinquished by	Received by
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Samples received at 3 °C

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

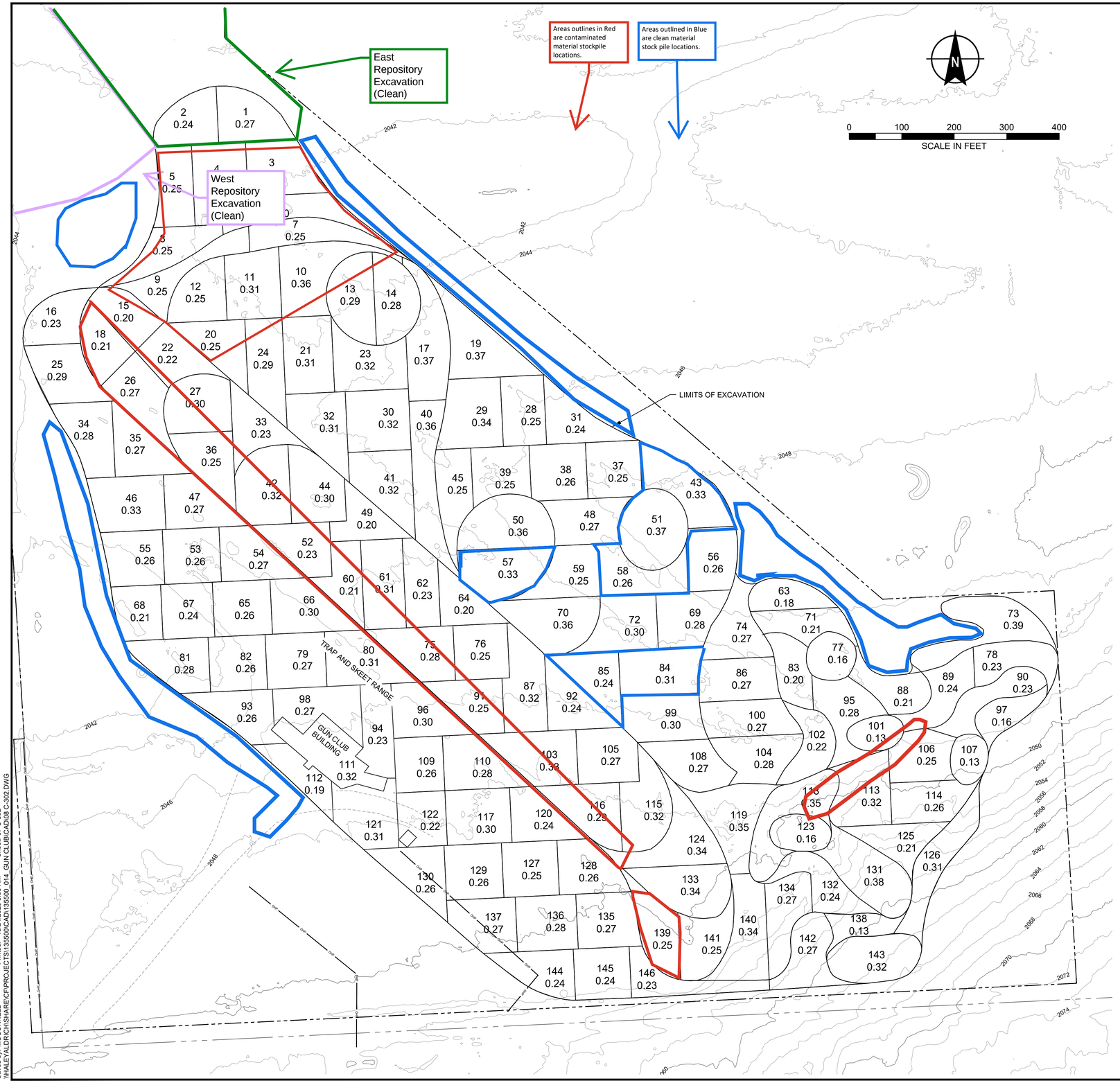
Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory

November 2024

Form 3003



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Material stock pile locations
12 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
\\HALEYALDRICH\SHARE\CF\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	31
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	16-20 December 2024
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Highly Variable	**Average Temperature**	Highly Variable

I. CLEANUP ACTIVITIES:

LWP - 12/16/2024

Weather: 30°F, Snow, Humidity 89%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material continued to be stockpiled on the same clean Units and areas as the end of last week, with the addition of Units 56, 72, and 74. Clean material was further stockpiled east of the garage, extending towards the entrance to the site.

LWP - 12/17/2024

Weather: 34°F, Rain, Humidity 90%

a. Contaminated Soil Excavation:
No contaminated soil was excavated today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material continued to be stockpiled on the same clean Units and areas as yesterday, with the addition of Unit 19. Clean material was further stockpiled on top of the garage stockpile as well as the stockpile adjacent to the repository. Unit 50 was also confirmed to still be contaminated, meaning that the clean repository dirt stockpiled on top of this Unit will need to be moved, leaving a buffer of clean soil on top of the Unit to prevent cross-contamination.

HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	31
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	16-20 December 2024
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Highly Variable	**Average Temperature**	Highly Variable

BMG - 12/18/2024

Weather:

a. Contaminated Soil Excavation:
No contaminated soil was excavated today.

b. Repository Excavation:
Halme continued to excavate the repository. Excavation activities lasted the entire length of the construction day.

c. Backfill:
Clean material was further stockpiled on to the northwest of the shop, as well as the stockpile adjacent to the repository. All existing clean stockpiles were added to laterally and vertically.

II. DUST MONITORS:

12/16/2024 THROUGH 12/18/2024

Dust monitors were not deployed for construction due to no contaminated material being moved or excavated on this day.

III. CONFIRMATION SAMPLING:

12/16/2024 THROUGH 12/18/2024

No confirmation sampling activities were conducted today.

Field Representative(s)	**Time on Site**	**Report/Travel/Other**	**Total Time**
Luke Peden, E.I.T. (LWP)	3.00 Hours	7.00 Hours	10.00 Hours
Breeyn Greer, PE (BMG)	3.00 Hours	2.00 Hours	5.00 Hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachment A – Site Photos
Attachment B – Site Map Markup

Breeyn Greer

Haley & Aldrich, Inc.



Photo 1. Repository excavation progress as of 16 December 2024, looking north.



Photo 2. Clean stockpile/windrow progress as of 17 December 2024, looking southeast.

Site Photographs — 16-18 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 3. Repository excavation progress as of 17 December 2024, looking north.



Photo 4. Repository excavation progress as of 17 December 2024, looking east.

Site Photographs — 16-18 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 5. Repository excavation progress as of 18 December 2024, looking south.



Photo 6. Repository excavation progress as of 18 December 2024, looking west at northern sidewall.

Site Photographs — 16-18 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**

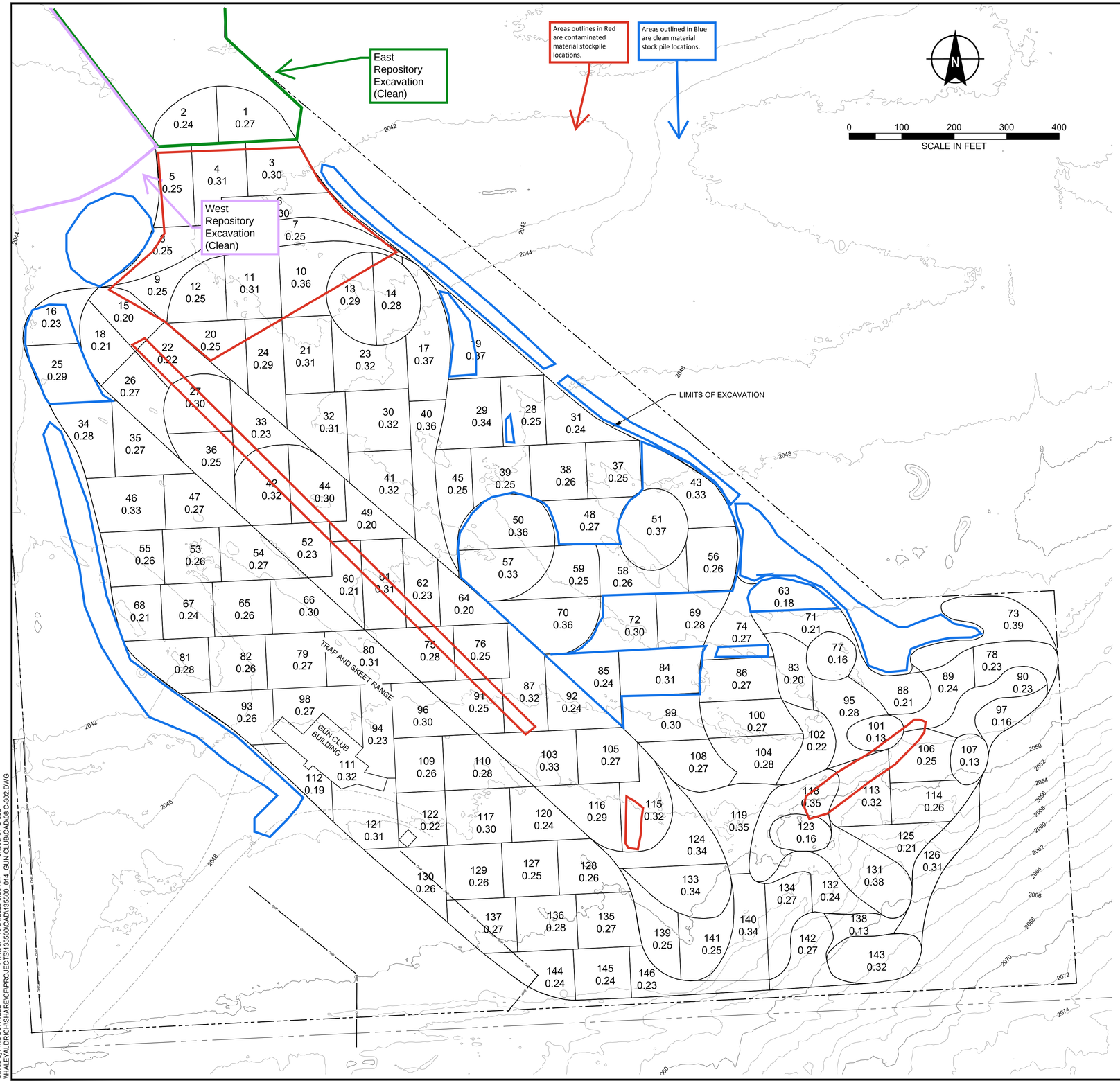


Photo 7. Contaminated stockpile windrow storage as of 18 December 2024, looking west.



Photo 8. Clean windrow/stockpile progress as of 18 December 2024, looking south. Shop is located south of this windrow/stockpile.

Site Photographs — 16-18 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Material stock pile locations
12 December 2024

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	32
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	23-27 December 2024
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Variable	**Average Temperature**	Variable

I. CLEANUP ACTIVITIES:

12/23/2024

Weather: 43°F, Partly Cloudy, Humidity 87%

a. Contaminated Soil Excavation: No contaminated soil excavation occurred today.

b. Repository Excavation: Repository excavation continued today. Hauling and repository excavation activities utilized: four haul trucks, two excavators, one dozer, and one scraper. Clean repository material was stored on-site on sample units that had clean confirmation sample results. Halme Construction, Inc. (Halme) worked on the excavation all day (clean material stockpiled locations markup attached).

c. Backfill: No backfill activities occurred today.

12/24/2024

Weather: 40°F, Rain, Humidity 90%

a. Contaminated Soil Excavation: No contaminated soil excavation occurred today.

b. Repository Excavation: Halme utilized a full crew today to the excavation of the repository. Clean material was stored east of the headquarters shop and on the east side of the excavation area on units that have received clean confirmation results. No new clean material stockpiles were made today. Halme worked a full excavation day.

c. Backfill: No backfill activities occurred today.

12/25/2024

Holiday – No Work Today

12/26/2024

Weather: 34°F, Rain, Humidity 95%

a. Contaminated Soil Excavation: No contaminated soil excavation occurred today.

b. Repository Excavation: Excavation of the repository continued today. There were no new clean material stockpile locations. Excavation utilized: three haul trucks, one dozer, and one excavator. All material was being stored on units that received clean confirmation samples located on the east side of the excavation area. Halme utilized a smaller crew than usual today due to the holiday. Halme worked on the excavation all day.

c. Backfill: No backfill activities occurred today.

Project	Spokane Gun Club Cleanup	**Report No.**	32
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	23-27 December 2024
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Variable	**Average Temperature**	Variable

12/27/2024

Weather: 32°F, Intermittent Rain, Humidity 92%

a. Contaminated Soil Excavation: N/A

b. Repository Excavation: Halme continued excavation within the repository. They utilized three haul trucks, one dozer, one excavator, and one scraper. Clean material was stockpiled on sampling units that received clean sampling results on the east portion of the excavation area. Clean material today was also stored to the east of the headquarters shop located on the west portion of the excavation area. Halme worked on the excavation all day.

c. Backfill: N/A

II. DUST MONITORS:

12/23-27/2024

Dust monitors were not deployed for construction due to no contaminated material being moved or excavated this week.

III. CONFIRMATION SAMPLING:

12/23-27/2024

No confirmation sampling activities were conducted this week.

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	32
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	23-27 December 2024
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Variable	**Average Temperature**	Variable

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey (CAL)	12 hours	4 hours	16 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photo Log
Attachment B – Confirmation Sampling Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2024/12_23-27_2024_CAL_WFR_32/12_23-27_2024_CAL_WFR_32.docx



Photo 1. View of repository excavation looking north on 23 December 2024.



Photo 2. View of clean stockpiles looking east on 23 December 2024.

Site Photographs - 23 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

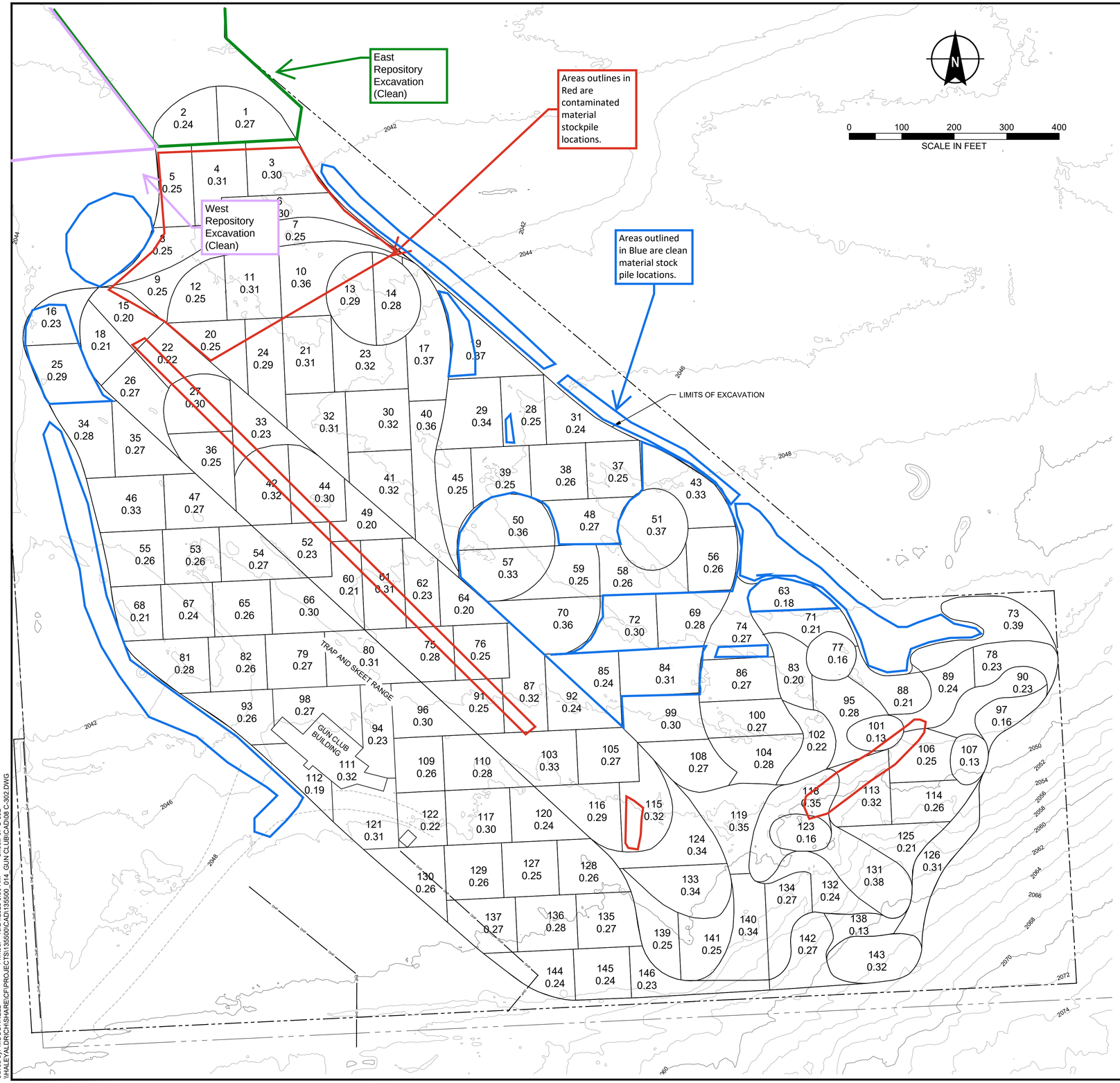


Photo 1. View of repository excavation looking northeast on 27 December 2024.



Photo 2. View of contaminated haul route adjacent to clean stockpiles in the center of the Site, looking west on 27 December 2024.

Site Photographs - 27 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Material stockpile locations
27 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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HALEY ALDRICH

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	33
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	30 December 2024 - 2 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Variable	**Average Temperature**	Variable

I. CLEANUP ACTIVITIES:

12/30/2024

Weather: 37°F, Partly Cloudy, Humidity 94%

a. Contaminated Soil Excavation: N/A

b. Repository Excavation: Excavation continued today. Clean material removed from the repository was stored outside the eastern and western border of the excavation areas. Equipment utilized: three haul trucks, two excavators, and one dozer. No new stockpile locations were used. Halme worked on the excavation all day (clean material stockpiled locations markup attached).

c. Backfill: N/A

12/31/2024

Weather: 37°F, Overcast, Humidity 92%

a. Contaminated Soil Excavation: N/A

b. Repository Excavation: Excavation continued today. Clean material was stockpiled on existing clean material stockpile just east of the headquarters shop. Clean material was not placed in other areas for the duration Haley & Aldrich, Inc. was on site. Equipment utilized: two dozers, one excavator, and two haul trucks. Halme worked a complete excavation day.

c. Backfill: N/A

01/01/2024

Holiday – No Work Today

01/02/2024

Weather: 34°F, Rain, Humidity 95%

a. Contaminated Soil Excavation: N/A

b. Repository Excavation: Excavation continued today. Clean material was stockpiled on units that received clean confirmation samples. Equipment utilized: two haul trucks, two excavators, and two dozers. No new stockpile locations were used. Halme worked a complete excavation day.

c. Backfill: N/A

WEEKLY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	33
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	30 December 2024 - 2 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
General Weather	Variable	**Average Temperature**	Variable

II. DUST MONITORS:

12/30/2024 - 01/02/2025

Dust monitors were not deployed for construction due to no contaminated material being hauled or excavated.

III. CONFIRMATION SAMPLING:

12/30/2024 - 01/02/2025

No confirmation sampling activities were conducted on these days.

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey (CAL)	15 hours	5 hours	20 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Confirmation Sampling Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2024/12_30_2024-1_2_2025_CAL_WFR_33/12_30_2024-1_2_2025_CAL_33.docx



Photo 1. Repository excavation progress (view looking north).



Photo 2. Repository excavation progress (view looking east).

Site Photographs – 30 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 1. Repository excavation progress (view Looking northwest).



Photo 2. Repository excavation progress (view looking north).

Site Photographs – 31 December 2024	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

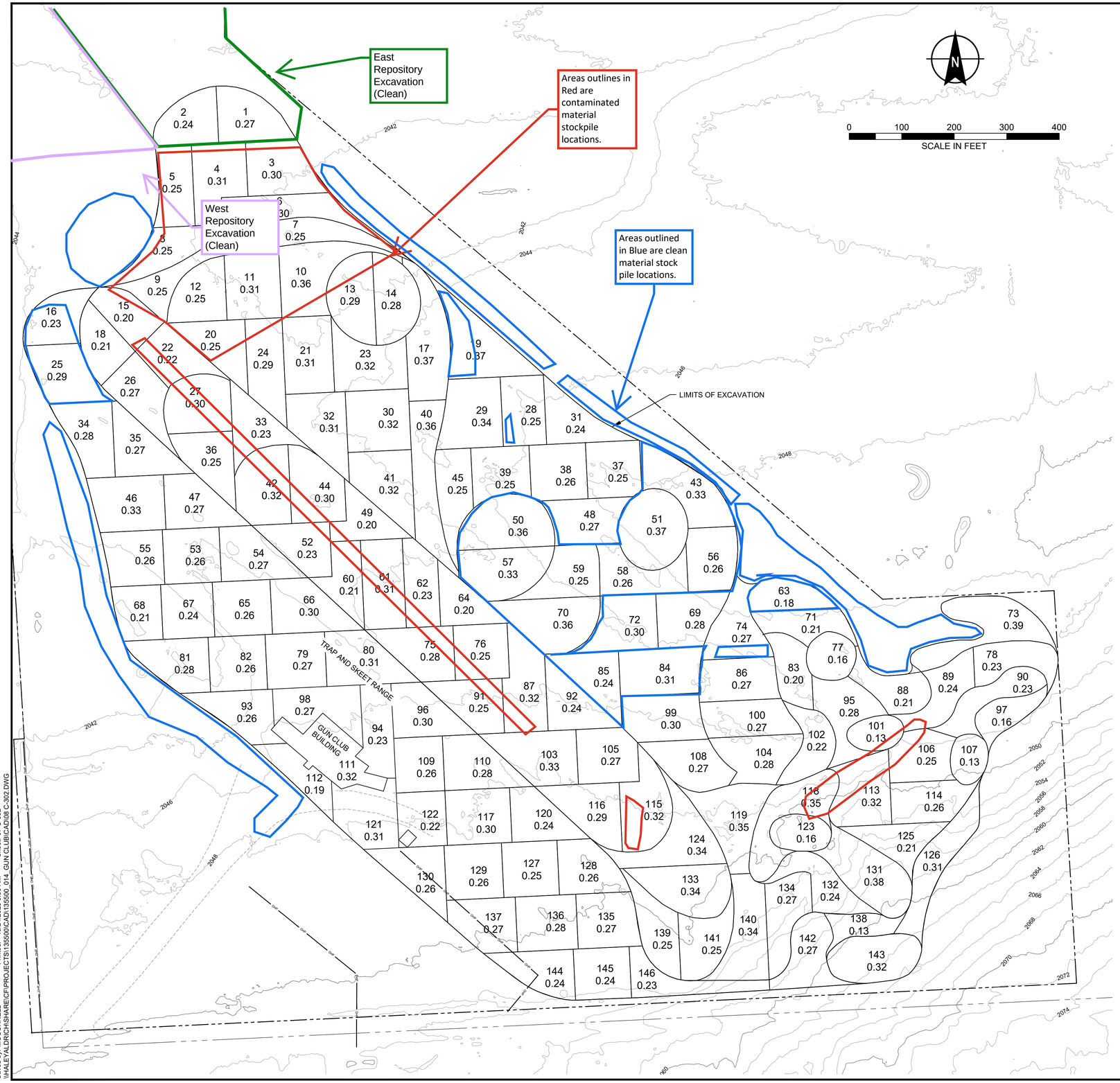


Photo 1. Clean material stockpile and cover located on the eastern border of the excavation area (view looking south).



Photo 2. Repository excavation progress (view looking northwest).

Site Photographs – 2 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
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LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Material stockpile locations
27 December 2024

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	34
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	03 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Sunny	**Temperature**	32-37°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: N/A (no work today)

b. Repository Excavation: Excavation of the repository continued today on the west side of the repository. One excavator and one haul truck were utilized to excavate clean material from the east side of the repository. This material was transported to the clean stockpile directly east of the headquarters shop.

c. Backfill: Halme began back filling the repository today. Orange delineation fence was placed in all areas experiencing work today within the repository. Halme began constructing an access ramp down into the repository for haul truck access. Halme began laying down the first 18-inch lift of contaminated material in the bottom of the repository around mid-day. Backfill work within the repository occurred on the south and southeast side of the repository. This ramp and backfill activities utilized contaminated material from the Northern Contaminated Stockpile.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 95%, and the wind direction was east to west.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did not exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground from heavy rainfall in previous days (see Photolog). Dust monitoring data is attached.

III. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	34
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	03 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Sunny	**Temperature**	32-37°F

Discussions:

Name	Topic
Halme; Haley & Aldrich, Inc. (H&A)	H&A representative Cameron Luckey spoke with Casey of Halme regarding excavation progress and timelines.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey (CAL)	9.75 hours	0.75 hours	10.50 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_03_25_CAL_DFR_34/01-03-25 DFR.docx



Photo 1. Visual Delineation material laid in the bottom of the repository once Repository final limits attained (view looking west).



Photo 2. Delineation material laid in the bottom of the repository (view looking southwest).

Site Photographs – 03 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3.Delineation material laid in the bottom of the repository (view looking southwest).

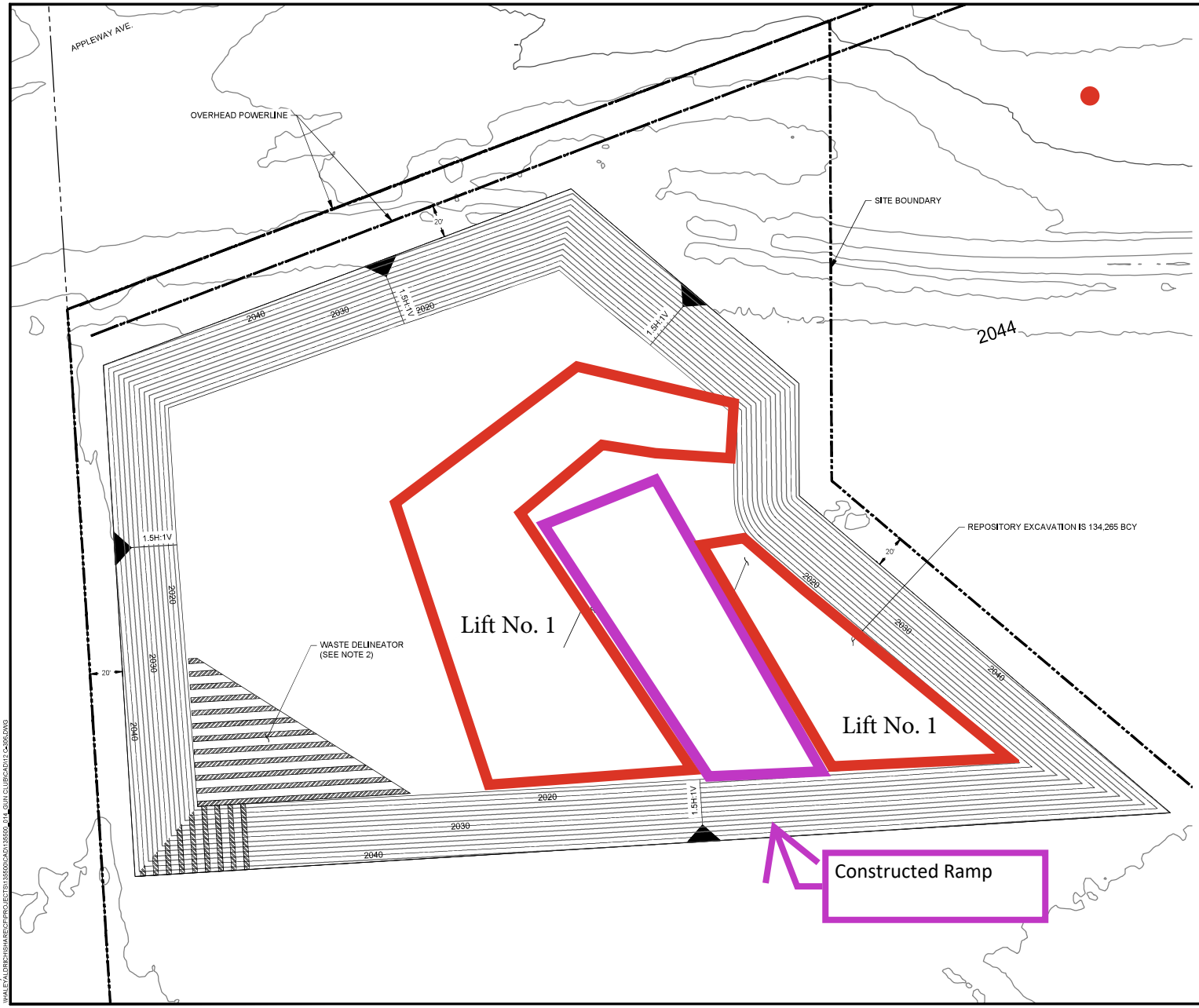


Photo 4. Delineation material laid in the bottom of the repository (view looking south).

Site Photographs – 03 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
DownWind								
Modem 47181	1/3/2025 18:30	1/3/2025 18:40	0	0	0	0	0	0
Modem 47181	1/3/2025 18:20	1/3/2025 18:30	0	0	0	0	0	0
Modem 47181	1/3/2025 18:10	1/3/2025 18:20	0	0	0	0	0	0
Modem 47181	1/3/2025 18:00	1/3/2025 18:10	0	0	0	0	0	0
Modem 47181	1/3/2025 17:50	1/3/2025 18:00	0	0	0	0	0	0
Modem 47181	1/3/2025 17:40	1/3/2025 17:50	0	0	0	0	0	0
Modem 47181	1/3/2025 17:30	1/3/2025 17:40	0	0	0	0	0	0
Modem 47181	1/3/2025 17:20	1/3/2025 17:30	0	0	0	0	0	0
Modem 47181	1/3/2025 17:10	1/3/2025 17:20	0	0	0	0	0	0
Modem 47181	1/3/2025 17:00	1/3/2025 17:10	0	0	0	0	0	0
Modem 47181	1/3/2025 16:50	1/3/2025 17:00	0	0	0	0	0	0
Modem 47181	1/3/2025 16:40	1/3/2025 16:50	0	0	0	0	0	0
Modem 47181	1/3/2025 16:30	1/3/2025 16:40	0	0	0	0	0	0
Modem 47181	1/3/2025 16:20	1/3/2025 16:30	0	0	0	0	0	0
Modem 47181	1/3/2025 16:10	1/3/2025 16:20	0	0	0	0	0	0
Modem 47181	1/3/2025 16:00	1/3/2025 16:10	0	0	0	0	0	0
Modem 47181	1/3/2025 15:50	1/3/2025 16:00	0	0	0	0	0	0
Modem 47181	1/3/2025 15:40	1/3/2025 15:50	0	0	0	0	0	0
Modem 47181	1/3/2025 15:30	1/3/2025 15:40	0	0	0	0	0	0
Modem 47181	1/3/2025 15:20	1/3/2025 15:30	0	0	0	0	0	0
Modem 47181	1/3/2025 15:10	1/3/2025 15:20	0	0	0	0	0	0
Modem 47181	1/3/2025 15:00	1/3/2025 15:10	0	0	0	0	0	0
Modem 47181	1/3/2025 14:50	1/3/2025 15:00	0	0	0	0	0	0
Modem 47181	1/3/2025 14:40	1/3/2025 14:50	0	0	0	0	0	0
Modem 47181	1/3/2025 14:30	1/3/2025 14:40	0	0	0	0	0	0
Modem 47181	1/3/2025 14:20	1/3/2025 14:30	0	0	0	0	0	0
Modem 47181	1/3/2025 14:10	1/3/2025 14:20	0	0	0	0	0	0
Modem 47181	1/3/2025 14:00	1/3/2025 14:10	0	0	0	0	0	0
Modem 47181	1/3/2025 13:50	1/3/2025 14:00	0	0	0	0	0	0
Modem 47181	1/3/2025 13:40	1/3/2025 13:50	0	0	0	0	0	0
Modem 47181	1/3/2025 13:30	1/3/2025 13:40	0	0	0	0	0	0
Modem 47181	1/3/2025 13:20	1/3/2025 13:30	0	0	0	0	0	0
Modem 47181	1/3/2025 13:10	1/3/2025 13:20	0	0	0	0	0	0
Modem 47181	1/3/2025 13:00	1/3/2025 13:10	0	0	0	0	0	0
Modem 47181	1/3/2025 12:50	1/3/2025 13:00	0	0	0	0	0	0
Modem 47181	1/3/2025 12:40	1/3/2025 12:50	0	0	0	0	0	0
Modem 47181	1/3/2025 12:30	1/3/2025 12:40	0	0	0	0	0	0
Modem 47181	1/3/2025 12:20	1/3/2025 12:30	0	0	0	0	0	
Modem 47181	1/3/2025 12:10	1/3/2025 12:20	0	0	0	0	0	
Modem 47181	1/3/2025 12:00	1/3/2025 12:10	0	0	0	0	0	
Modem 47181	1/3/2025 11:50	1/3/2025 12:00	0	0	0	0	0	
Modem 47181	1/3/2025 11:40	1/3/2025 11:50	0	0	0	0	0	
Modem 47181	1/3/2025 11:30	1/3/2025 11:40	0	0	0	0	0	
Modem 47181	1/3/2025 11:20	1/3/2025 11:30	0	0	0	0	0	
Modem 47181	1/3/2025 11:10	1/3/2025 11:20	0	0	0	0	0	
Modem 47181	1/3/2025 11:00	1/3/2025 11:10	0	0	0	0	0	
Modem 47181	1/3/2025 10:50	1/3/2025 11:00	0	0	0	0	0	
Modem 47181	1/3/2025 10:40	1/3/2025 10:50	0	0	0	0	0	
Modem 47181	1/3/2025 10:30	1/3/2025 10:40	0	0	0	0	0	
UpWind								
Modem 49913	1/3/2025 18:30	1/3/2025 18:40	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	1/3/2025 18:20	1/3/2025 18:30	0.005	0.006	0.006	0.006	0.006	0.004
Modem 49913	1/3/2025 18:10	1/3/2025 18:20	0	0	0	0	0	0.0015
Modem 49913	1/3/2025 18:00	1/3/2025 18:10	0.001	0.001	0.001	0.001	0.001	0.0015

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Modem 49913	1/3/2025 17:50	1/3/2025 18:00	0	0	0	0	0	0.0005
Modem 49913	1/3/2025 17:40	1/3/2025 17:50	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	1/3/2025 17:30	1/3/2025 17:40	0	0	0	0	0	0
Modem 49913	1/3/2025 17:20	1/3/2025 17:30	0.001	0.001	0.001	0.001	0.001	0.0005
Modem 49913	1/3/2025 17:10	1/3/2025 17:20	0.001	0.001	0.001	0.001	0.001	0.0005
Modem 49913	1/3/2025 17:00	1/3/2025 17:10	0.001	0.001	0.001	0.001	0.001	0.0005
Modem 49913	1/3/2025 16:50	1/3/2025 17:00	0	0	0	0	0	0.0025
Modem 49913	1/3/2025 16:40	1/3/2025 16:50	0	0	0	0	0	0
Modem 49913	1/3/2025 16:30	1/3/2025 16:40	0.002	0.002	0.002	0.002	0.002	0.001
Modem 49913	1/3/2025 16:20	1/3/2025 16:30	0.001	0.002	0.002	0.002	0.002	0.001
Modem 49913	1/3/2025 16:10	1/3/2025 16:20	0.003	0.003	0.003	0.003	0.003	0.0015
Modem 49913	1/3/2025 16:00	1/3/2025 16:10	0.002	0.002	0.002	0.002	0.002	0.001
Modem 49913	1/3/2025 15:50	1/3/2025 16:00	0.001	0.001	0.001	0.001	0.001	0.0005
Modem 49913	1/3/2025 15:40	1/3/2025 15:50	0.001	0.001	0.001	0.001	0.001	0.002
Modem 49913	1/3/2025 15:30	1/3/2025 15:40	0	0	0	0	0	0
Modem 49913	1/3/2025 15:20	1/3/2025 15:30	0	0	0	0	0	0.0005
Modem 49913	1/3/2025 15:10	1/3/2025 15:20	0	0	0	0	0	0
Modem 49913	1/3/2025 15:00	1/3/2025 15:10	0	0	0	0	0	0
Modem 49913	1/3/2025 14:50	1/3/2025 15:00	0.005	0.005	0.005	0.005	0.005	0.0035
Modem 49913	1/3/2025 14:40	1/3/2025 14:50	0	0	0	0	0	0
Modem 49913	1/3/2025 14:30	1/3/2025 14:40	0	0	0	0	0	0
Modem 49913	1/3/2025 14:20	1/3/2025 14:30	0	0	0	0	0	0
Modem 49913	1/3/2025 14:10	1/3/2025 14:20	0	0	0	0	0	0.0005
Modem 49913	1/3/2025 14:00	1/3/2025 14:10	0	0	0	0	0	0
Modem 49913	1/3/2025 13:50	1/3/2025 14:00	0	0	0	0	0	0.0005
Modem 49913	1/3/2025 13:40	1/3/2025 13:50	0.003	0.003	0.003	0.003	0.003	0.002
Modem 49913	1/3/2025 13:30	1/3/2025 13:40	0	0	0	0	0	0.001
Modem 49913	1/3/2025 13:20	1/3/2025 13:30	0	0.001	0.001	0.001	0.001	0.0015
Modem 49913	1/3/2025 13:10	1/3/2025 13:20	0	0	0	0	0	0.0015
Modem 49913	1/3/2025 13:00	1/3/2025 13:10	0	0	0	0	0	0.002
Modem 49913	1/3/2025 12:50	1/3/2025 13:00	0.002	0.002	0.002	0.002	0.002	0.0035
Modem 49913	1/3/2025 12:40	1/3/2025 12:50	0	0	0	0	0	0.0165
Modem 49913	1/3/2025 12:30	1/3/2025 12:40	0	0	0	0	0	0.0165
Modem 49913	1/3/2025 12:20	1/3/2025 12:30	0	0	0	0	0	
Modem 49913	1/3/2025 12:10	1/3/2025 12:20	0.001	0.001	0.001	0.001	0.001	
Modem 49913	1/3/2025 12:00	1/3/2025 12:10	0	0	0	0	0	
Modem 49913	1/3/2025 11:50	1/3/2025 12:00	0.001	0.001	0.001	0.001	0.001	
Modem 49913	1/3/2025 11:40	1/3/2025 11:50	0.001	0.001	0.001	0.001	0.001	
Modem 49913	1/3/2025 11:30	1/3/2025 11:40	0.002	0.002	0.002	0.002	0.002	
Modem 49913	1/3/2025 11:20	1/3/2025 11:30	0.002	0.002	0.002	0.002	0.002	
Modem 49913	1/3/2025 11:10	1/3/2025 11:20	0.002	0.003	0.003	0.003	0.003	
Modem 49913	1/3/2025 11:00	1/3/2025 11:10	0.004	0.004	0.004	0.004	0.004	
Modem 49913	1/3/2025 10:50	1/3/2025 11:00	0.005	0.005	0.005	0.005	0.005	
Modem 49913	1/3/2025 10:40	1/3/2025 10:50	0.032	0.032	0.032	0.033	0.033	
Modem 49913	1/3/2025 10:30	1/3/2025 10:40	0.032	0.032	0.032	0.033	0.033	



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G. NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY
SUBGRADE
EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 CA06
\\HALEYALDRICH\SHARE\CPROJECTS\135000\CA013500_CVSD_GUN CLUB\CAD\12 C-306.DWG

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	35
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	06 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast, Light Rain	**Temperature**	30-34°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No contaminated soil was excavated today.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Halme started full scale backfill of the repository today. Haley & Aldrich, Inc. (H&A) was on-site performing compaction testing for the entirety of the construction day. Halme competed backfilling and compaction of Lift no. 1. This Lift passed compaction testing to 90% of maximum dry density as conducted by H&A today. Halme then began backfilling Lift No. 2. Lift No. 2 was not compaction tested by H&A today.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 98% and the wind direction was north to south.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did not exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and light rainfall. Upwind monitor 47181 appears to be malfunctioning. H&A is working to troubleshoot this issue.

III. CONFIRMATION SAMPLING:

No confirmation sampling was conducted today.

IV. COMPACTION TESTING

Lift No. 1 passed compaction testing. H&A observed that six passes with a sheep's foot CAT roller created passing compaction values. This CAT roller would then use its blade to create a flat area in order for H&A to compaction test this area. A minimum of one compaction test was conducted per every 5,000 square feet within the repository, with a compaction of 90% of maximum dry density or greater considered adequate.

Lift/Test	% Proctor	Dry Density	Wet Density	% Moisture	Pass/Fail
01/01	93%	125.2	130.6	5.0	P
01/02	87%	117.1	125.3	7.0	F
01/03	85%	114.2	120.9	5.7	F
01/04	89%	118.8	125.2	6.4	P
01/05	98%	131.3	138.3	5.3	P
01/06	99%	132.9	140.3	5.5	P

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	35
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	06 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast, Light Rain	**Temperature**	30-34°F

Lift/Test	% Proctor	Dry Density	Wet Density	% Moisture	Pass/Fail
01/07	101%	134.7	140.3	4.2	P
01/08	93%	125.2	130.6	4.4	P
01/09	101%	135.5	142.3	5.0	P
01/10	98%	131.2	138.2	5.4	P
01/11	102%	136.8	142.7	4.3	P
01/12	102%	137.1	142.4	3.9	P
01/13	99%	132.4	139.1	5.1	P
01/14	96%	129.1	136.2	7.1	P
01/15	96%	129.1	138.6	7.3	P
01/16	103%	137.4	143.4	4.4	P
01/17	98%	131.8	140.4	6.5	P

Discussions:

Name	Topic
Halme; H&A	Haley & Aldrich spoke with Jake of Halme construction about methods used to create passing compaction values within the repository. The result of the discussion was that six passes were needed under current conditions to achieve 90% compaction.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	9.60 hours	0.90 hours	10.50 hours

Distribution:

CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:

Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_06_25_CAL_DFR_35/01-06-25 DFR.docx



Photo 1. Backfill of repository with contaminated dirt (view looking northwest).



Photo 2. CAT 825C Sheeps foot roller used for compaction (view looking north).

Site Photographs – 06 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 3. Access ramp into the repository (view looking south).



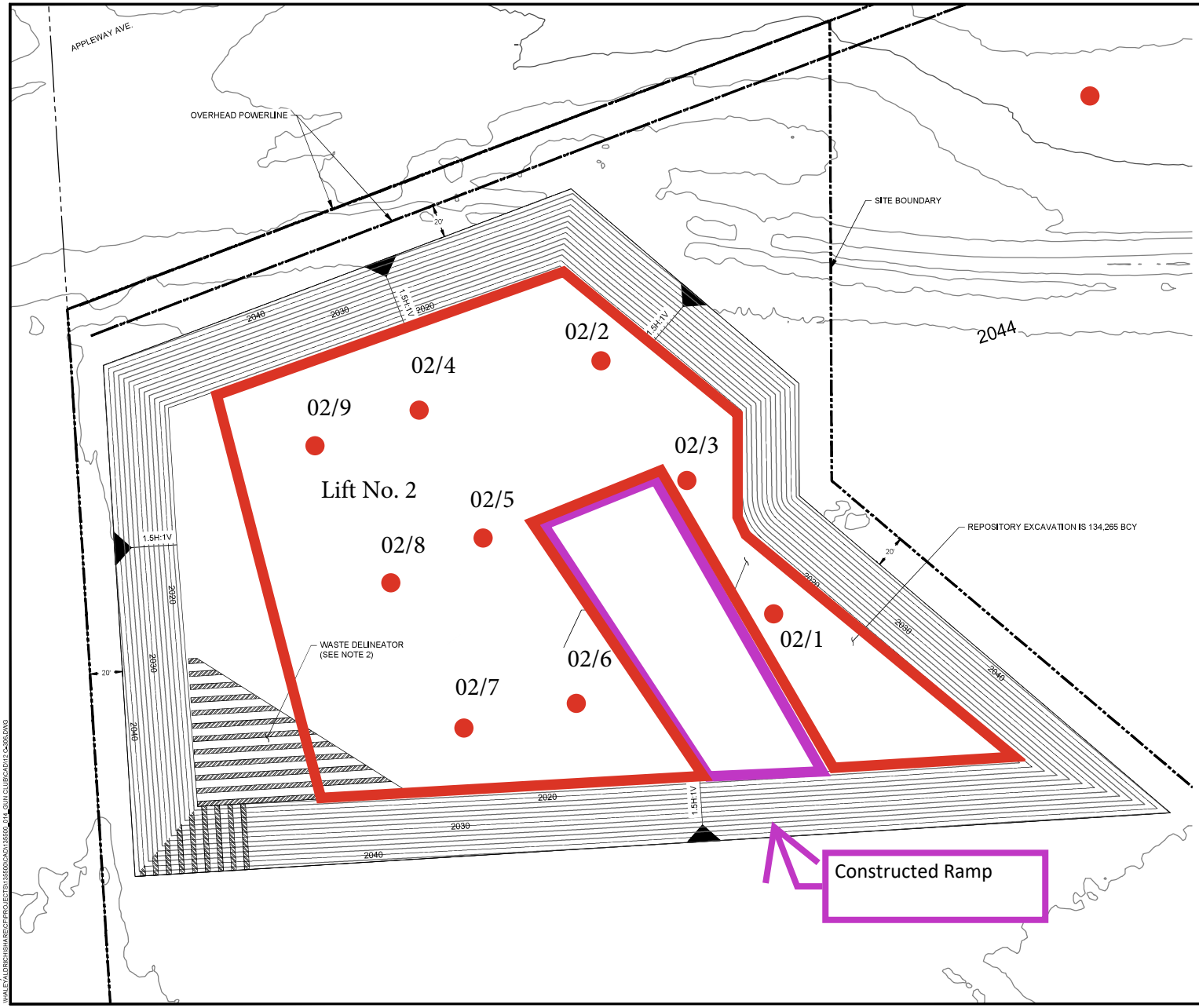
Photo 4. Backfill progress of the repository (view looking southwest).

Site Photographs – 06 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/6/2025 19:20	1/6/2025 19:30	0.006	0.006	0.006	0.007	0.007	0.004
Modem 49913	1/6/2025 19:10	1/6/2025 19:20	0.005	0.005	0.006	0.006	0.006	0.003
Modem 49913	1/6/2025 19:00	1/6/2025 19:10	0.006	0.007	0.007	0.007	0.007	0.004
Modem 49913	1/6/2025 18:50	1/6/2025 19:00	0.008	0.008	0.008	0.009	0.009	0.005
Modem 49913	1/6/2025 18:40	1/6/2025 18:50	0.001	0.001	0.001	0.001	0.001	0.015
Modem 49913	1/6/2025 18:30	1/6/2025 18:40	0	0	0	0	0	0.000
Modem 49913	1/6/2025 18:20	1/6/2025 18:30	0.008	0.008	0.008	0.008	0.008	0.004
Modem 49913	1/6/2025 18:10	1/6/2025 18:20	0	0	0	0	0	0.000
Modem 49913	1/6/2025 18:00	1/6/2025 18:10	0	0	0	0	0	0.002
Modem 49913	1/6/2025 17:50	1/6/2025 18:00	0	0	0	0	0	0.001
Modem 49913	1/6/2025 17:40	1/6/2025 17:50	0	0	0	0	0	0.001
Modem 49913	1/6/2025 17:30	1/6/2025 17:40	0	0	0	0	0	0.001
Modem 49913	1/6/2025 17:20	1/6/2025 17:30	0	0	0	0	0	0.000
Modem 49913	1/6/2025 17:10	1/6/2025 17:20	0	0	0	0	0	0.000
Modem 49913	1/6/2025 17:00	1/6/2025 17:10	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	1/6/2025 16:50	1/6/2025 17:00	0	0	0	0	0	0.001
Modem 49913	1/6/2025 16:40	1/6/2025 16:50	0.009	0.009	0.011	0.024	0.028	0.015
Modem 49913	1/6/2025 16:30	1/6/2025 16:40	-0.001	-0.001	0	0	0	0.002
Modem 49913	1/6/2025 16:20	1/6/2025 16:30	0	0	0	0	0	0.002
Modem 49913	1/6/2025 16:10	1/6/2025 16:20	0	0	0	0	0	0.004
Modem 49913	1/6/2025 16:00	1/6/2025 16:10	0.003	0.003	0.003	0.004	0.004	0.008
Modem 49913	1/6/2025 15:50	1/6/2025 16:00	0.001	0.001	0.001	0.002	0.002	0.005
Modem 49913	1/6/2025 15:40	1/6/2025 15:50	0.002	0.002	0.002	0.002	0.002	0.005
Modem 49913	1/6/2025 15:30	1/6/2025 15:40	0.001	0.001	0.001	0.002	0.002	0.005
Modem 49913	1/6/2025 15:20	1/6/2025 15:30	0	0	0	0	0	0.004
Modem 49913	1/6/2025 15:10	1/6/2025 15:20	0	0	0	0	0	0.004
Modem 49913	1/6/2025 15:00	1/6/2025 15:10	0	0	0	0	0	0.004
Modem 49913	1/6/2025 14:50	1/6/2025 15:00	0	0	0	0.001	0.001	0.005
Modem 49913	1/6/2025 14:40	1/6/2025 14:50	0.001	0.001	0.001	0.001	0.001	0.005
Modem 49913	1/6/2025 14:30	1/6/2025 14:40	0.002	0.002	0.002	0.003	0.003	0.006
Modem 49913	1/6/2025 14:20	1/6/2025 14:30	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	1/6/2025 14:10	1/6/2025 14:20	0.006	0.006	0.007	0.007	0.007	0.008
Modem 49913	1/6/2025 14:00	1/6/2025 14:10	0.01	0.01	0.01	0.011	0.011	0.013
Modem 49913	1/6/2025 13:50	1/6/2025 14:00	0.008	0.008	0.008	0.008	0.008	0.012
Modem 49913	1/6/2025 13:40	1/6/2025 13:50	0.007	0.007	0.007	0.007	0.007	0.011
Modem 49913	1/6/2025 13:30	1/6/2025 13:40	0.006	0.006	0.007	0.007	0.007	0.011
Modem 49913	1/6/2025 13:20	1/6/2025 13:30	0.007	0.007	0.007	0.007	0.007	0.011
Modem 49913	1/6/2025 13:10	1/6/2025 13:20	0.007	0.007	0.007	0.008	0.008	0.009
Modem 49913	1/6/2025 13:00	1/6/2025 13:10	0.007	0.008	0.008	0.008	0.008	0.009
Modem 49913	1/6/2025 12:50	1/6/2025 13:00	0.007	0.008	0.008	0.008	0.008	0.010
Modem 49913	1/6/2025 12:40	1/6/2025 12:50	0.009	0.009	0.009	0.009	0.009	0.011
Modem 49913	1/6/2025 12:30	1/6/2025 12:40	0.008	0.008	0.008	0.008	0.008	0.012
Modem 49913	1/6/2025 12:20	1/6/2025 12:30	0.008	0.008	0.008	0.008	0.008	#REF!
Modem 49913	1/6/2025 12:10	1/6/2025 12:20	0.009	0.009	0.009	0.009	0.009	0.009
Modem 49913	1/6/2025 12:00	1/6/2025 12:10	0.015	0.015	0.015	0.015	0.015	0.008
Modem 49913	1/6/2025 11:50	1/6/2025 12:00	0.015	0.015	0.015	0.015	0.015	0.008
Modem 49913	1/6/2025 11:40	1/6/2025 11:50	0.014	0.014	0.014	0.014	0.014	0.007
Modem 49913	1/6/2025 11:30	1/6/2025 11:40	0.014	0.014	0.014	0.014	0.014	0.007
Modem 49913	1/6/2025 11:20	1/6/2025 11:30	0.014	0.014	0.014	0.014	0.014	0.007
Modem 49913	1/6/2025 11:10	1/6/2025 11:20	0.009	0.009	0.009	0.009	0.009	0.005
Modem 49913	1/6/2025 11:00	1/6/2025 11:10	0.01	0.01	0.01	0.01	0.01	0.005
Modem 49913	1/6/2025 10:50	1/6/2025 11:00	0.011	0.011	0.011	0.011	0.011	0.006
Modem 49913	1/6/2025 10:40	1/6/2025 10:50	0.012	0.012	0.012	0.012	0.012	0.006
Modem 49913	1/6/2025 10:30	1/6/2025 10:40	0.016	0.016	0.016	0.016	0.016	0.008
Upwind								
Modem 47181	1/6/2025 19:20	1/6/2025 19:30	0	0	0	0	0	0
Modem 47181	1/6/2025 19:10	1/6/2025 19:20	0	0	0	0	0	0
Modem 47181	1/6/2025 19:00	1/6/2025 19:10	0	0	0	0	0	0
Modem 47181	1/6/2025 18:50	1/6/2025 19:00	0	0	0	0	0	0

Modem 47181	1/6/2025 18:40	1/6/2025 18:50	0	0	0	0	0	0
Modem 47181	1/6/2025 18:30	1/6/2025 18:40	0	0	0	0	0	0
Modem 47181	1/6/2025 18:20	1/6/2025 18:30	0	0	0	0	0	0
Modem 47181	1/6/2025 18:10	1/6/2025 18:20	0	0	0	0	0	0
Modem 47181	1/6/2025 18:00	1/6/2025 18:10	0	0	0	0	0	0
Modem 47181	1/6/2025 17:50	1/6/2025 18:00	0	0	0	0	0	0
Modem 47181	1/6/2025 17:40	1/6/2025 17:50	0	0	0	0	0	0
Modem 47181	1/6/2025 17:30	1/6/2025 17:40	0	0	0	0	0	0
Modem 47181	1/6/2025 17:20	1/6/2025 17:30	0	0	0	0	0	0
Modem 47181	1/6/2025 17:10	1/6/2025 17:20	0	0	0	0	0	0
Modem 47181	1/6/2025 17:00	1/6/2025 17:10	0	0	0	0	0	0
Modem 47181	1/6/2025 16:50	1/6/2025 17:00	0	0	0	0	0	0
Modem 47181	1/6/2025 16:40	1/6/2025 16:50	0	0	0	0	0	0
Modem 47181	1/6/2025 16:30	1/6/2025 16:40	0	0	0	0	0	0
Modem 47181	1/6/2025 16:20	1/6/2025 16:30	0	0	0	0	0	0
Modem 47181	1/6/2025 16:10	1/6/2025 16:20	0	0	0	0	0	0
Modem 47181	1/6/2025 16:00	1/6/2025 16:10	0	0	0	0	0	0
Modem 47181	1/6/2025 15:50	1/6/2025 16:00	0	0	0	0	0	0
Modem 47181	1/6/2025 15:40	1/6/2025 15:50	0	0	0	0	0	0
Modem 47181	1/6/2025 15:30	1/6/2025 15:40	0	0	0	0	0	0
Modem 47181	1/6/2025 15:20	1/6/2025 15:30	0	0	0	0	0	0
Modem 47181	1/6/2025 15:10	1/6/2025 15:20	0	0	0	0	0	0
Modem 47181	1/6/2025 15:00	1/6/2025 15:10	0	0	0	0	0	0
Modem 47181	1/6/2025 14:50	1/6/2025 15:00	0	0	0	0	0	0
Modem 47181	1/6/2025 14:40	1/6/2025 14:50	0	0	0	0	0	0
Modem 47181	1/6/2025 14:30	1/6/2025 14:40	0	0	0	0	0	0
Modem 47181	1/6/2025 14:20	1/6/2025 14:30	0	0	0	0	0	0
Modem 47181	1/6/2025 14:10	1/6/2025 14:20	0	0	0	0	0	0
Modem 47181	1/6/2025 14:00	1/6/2025 14:10	0	0	0	0	0	0
Modem 47181	1/6/2025 13:50	1/6/2025 14:00	0	0	0	0	0	0
Modem 47181	1/6/2025 13:40	1/6/2025 13:50	0	0	0	0	0	0
Modem 47181	1/6/2025 13:30	1/6/2025 13:40	0	0	0	0	0	0
Modem 47181	1/6/2025 13:20	1/6/2025 13:30	0	0	0	0	0	0
Modem 47181	1/6/2025 13:10	1/6/2025 13:20	0	0	0	0	0	0
Modem 47181	1/6/2025 13:00	1/6/2025 13:10	0	0	0	0	0	0
Modem 47181	1/6/2025 12:50	1/6/2025 13:00	0	0	0	0	0	0
Modem 47181	1/6/2025 12:40	1/6/2025 12:50	0	0	0	0	0	0
Modem 47181	1/6/2025 12:30	1/6/2025 12:40	0	0	0	0	0	0
Modem 47181	1/6/2025 12:20	1/6/2025 12:30	0	0	0	0	0	0
Modem 47181	1/6/2025 12:10	1/6/2025 12:20	0	0	0	0	0	0
Modem 47181	1/6/2025 12:00	1/6/2025 12:10	0	0	0	0	0	0
Modem 47181	1/6/2025 11:50	1/6/2025 12:00	0	0	0	0	0	0
Modem 47181	1/6/2025 11:40	1/6/2025 11:50	0	0	0	0	0	0
Modem 47181	1/6/2025 11:30	1/6/2025 11:40	0	0	0	0	0	0
Modem 47181	1/6/2025 11:20	1/6/2025 11:30	0	0	0	0	0	0
Modem 47181	1/6/2025 11:10	1/6/2025 11:20	0	0	0	0	0	0
Modem 47181	1/6/2025 11:00	1/6/2025 11:10	0	0	0	0	0	0
Modem 47181	1/6/2025 10:50	1/6/2025 11:00	0	0	0	0	0	0
Modem 47181	1/6/2025 10:40	1/6/2025 10:50	0	0	0	0	0	0
Modem 47181	1/6/2025 10:30	1/6/2025 10:40	0	0	0	0	0	0



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY
SUBGRADE
EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 CAD#6
\\HALEYALDRICH\SHARE\CPROJECTS\135000\CAD\135000_FIL_GUN CLUB\CAD\12 C-306.DWG

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	36
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	7 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No contaminated soil was excavated today.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Haley & Aldrich, Inc. (H&A) was on-site compaction testing for the entirety of the construction day. Halme completed backfilling Lift No. 2. The south side of this Lift passed compaction testing conducted by H&A today, while the north side of the Lift was not tested. Halme then began backfilling Lift No. 3 onto the south side of the repository. Lift No. 3 was not compaction tested by H&A today.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated from 07:45 to 16:30. Samsara DM 47181 was positioned upwind of site work and DM 49913 was positioned downwind of site work. The relative humidity in the morning was approximately 89% and the wind was to the south-southwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was well-controlled. Upwind monitor 47181 appears to be malfunctioning. H&A is working to troubleshoot this issue. Dust monitoring data is attached.

III. CONFIRMATION SAMPLING:

No confirmation sampling was conducted today.

IV. COMPACTION TESTING

The south side of Lift No. 2 passed compaction testing; however, testing of the north side of the Lift is incomplete. H&A observed that six passes with a sheep's foot CAT roller typically created passing compaction values; however, occasionally, a total of 12 passes were required to reach adequate compaction. After compaction, this CAT roller would use its blade to create a flat area for H&A to compaction test. A minimum of one compaction test was conducted per every 5,000 square feet within the repository, with a compaction of 90% of maximum dry density or greater considered adequate.

Lift/Test	Proctor	% Proctor	Dry Density	Wet Density	% Moisture
02/01	137.4	91.3	125.5	132.8	5.8
02/02	137.4	95.7	131.5	141.1	7.3
02/03	137.4	92.6	127.2	136.6	7.4
02/04	137.4	91.1	125.2	134.6	7.5
02/05	134.0	92.7	124.2	127.9	3.0

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	36
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	7 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	32°F

Lift/Test	Proctor	% Proctor	Dry Density	Wet Density	% Moisture
02/06	134.0	96.9	129.9	137.9	6.2
02/07	134.0	90.0	120.7	124.5	3.2
02/08	134.0	98.7	132.2	137.9	4.3
02/09	134.0	99.0	132.7	139.0	4.7
02/10	134.0	96.4	129.1	137.9	6.8
02/11	134.0	104.9	140.5	145.1	3.3

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Luke Peden	10.25 hours	1.00 hours	11.25 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_07_25_LWP_DFR_36/01_07_25_DFR_36_LWP.docx



Photo 01. Repository fill progress (view to the northeast).



Photo 02. Repository Compaction (view to the northwest).

Site Photographs – 07 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Repository ramp entrance (view to the south).



Photo 04. Density gauge (testing).

Site Photographs – 07 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



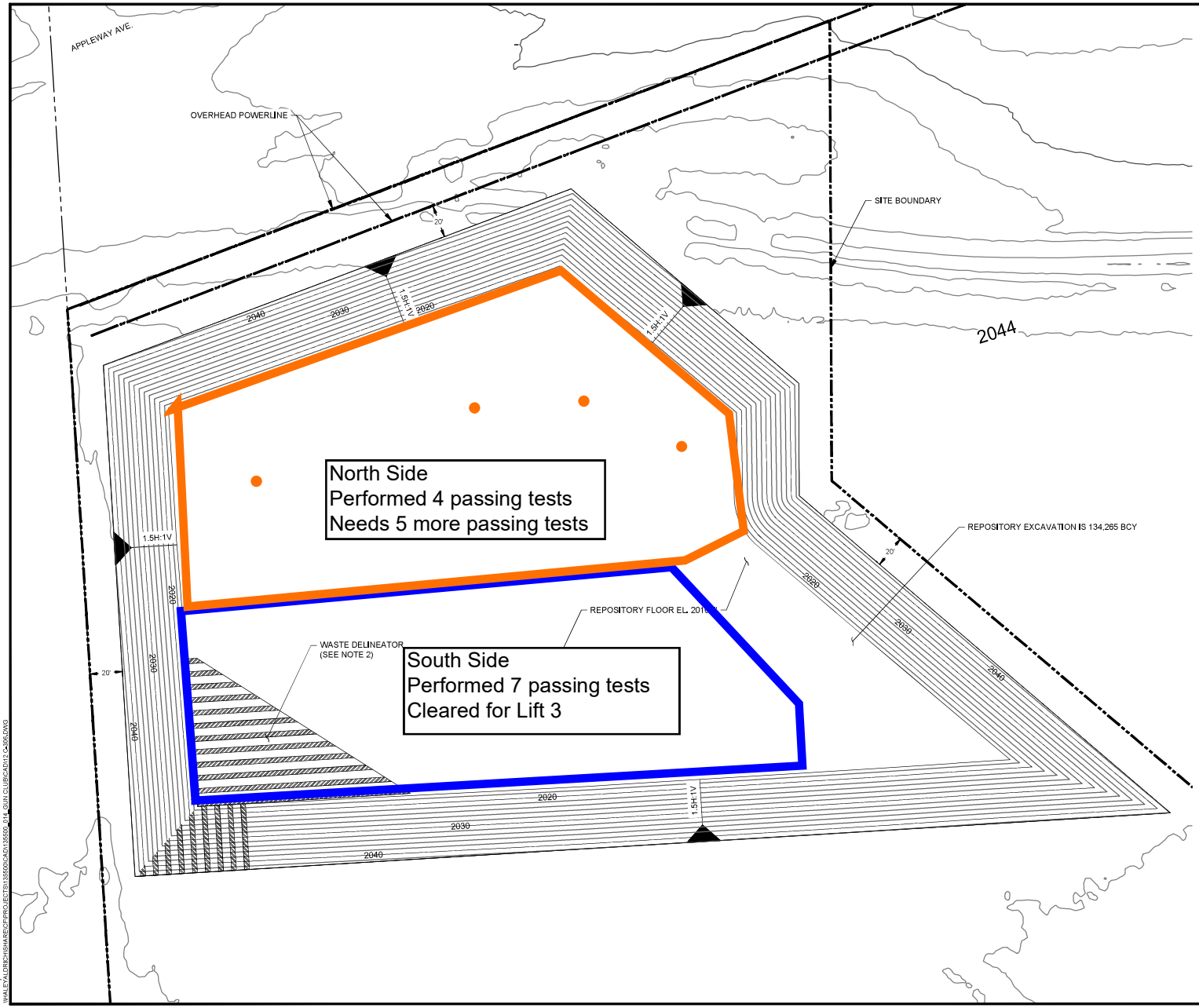
Photo 05. Repository wide-view end of day (view to the northeast).

Site Photographs - 07 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 min Avg. (mg/m^3)
Downwind								
Modem 49913	1/7/2025 20:50	1/7/2025 21:00	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	1/7/2025 20:40	1/7/2025 20:50	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	1/7/2025 20:30	1/7/2025 20:40	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	1/7/2025 20:20	1/7/2025 20:30	0.005	0.005	0.005	0.006	0.006	0.006
Modem 49913	1/7/2025 20:10	1/7/2025 20:20	0.005	0.005	0.005	0.006	0.006	0.006
Modem 49913	1/7/2025 20:00	1/7/2025 20:10	0.005	0.005	0.005	0.006	0.006	0.006
Modem 49913	1/7/2025 19:50	1/7/2025 20:00	0.005	0.005	0.005	0.006	0.006	0.006
Modem 49913	1/7/2025 19:40	1/7/2025 19:50	0.005	0.005	0.005	0.006	0.006	0.007
Modem 49913	1/7/2025 19:30	1/7/2025 19:40	0.005	0.005	0.005	0.006	0.006	0.007
Modem 49913	1/7/2025 19:20	1/7/2025 19:30	0.005	0.005	0.005	0.005	0.005	0.007
Modem 49913	1/7/2025 19:10	1/7/2025 19:20	0.001	0.001	0.001	0.001	0.001	0.007
Modem 49913	1/7/2025 19:00	1/7/2025 19:10	0.001	0.001	0.001	0.001	0.001	0.008
Modem 49913	1/7/2025 18:50	1/7/2025 19:00	0.003	0.003	0.003	0.003	0.003	0.009
Modem 49913	1/7/2025 18:40	1/7/2025 18:50	0.005	0.005	0.005	0.006	0.006	0.009
Modem 49913	1/7/2025 18:30	1/7/2025 18:40	0.007	0.007	0.007	0.007	0.007	0.009
Modem 49913	1/7/2025 18:20	1/7/2025 18:30	0.012	0.012	0.012	0.013	0.013	0.009
Modem 49913	1/7/2025 18:10	1/7/2025 18:20	0.010	0.011	0.011	0.011	0.011	0.009
Modem 49913	1/7/2025 18:00	1/7/2025 18:10	0.009	0.009	0.009	0.009	0.009	0.008
Modem 49913	1/7/2025 17:50	1/7/2025 18:00	0.009	0.009	0.009	0.009	0.009	0.008
Modem 49913	1/7/2025 17:40	1/7/2025 17:50	0.009	0.009	0.009	0.009	0.009	0.008
Modem 49913	1/7/2025 17:30	1/7/2025 17:40	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 17:20	1/7/2025 17:30	0.008	0.008	0.009	0.009	0.009	0.009
Modem 49913	1/7/2025 17:10	1/7/2025 17:20	0.009	0.009	0.009	0.009	0.009	0.009
Modem 49913	1/7/2025 17:00	1/7/2025 17:10	0.010	0.011	0.011	0.011	0.011	0.009
Modem 49913	1/7/2025 16:50	1/7/2025 17:00	0.008	0.008	0.008	0.008	0.008	0.009
Modem 49913	1/7/2025 16:40	1/7/2025 16:50	0.008	0.008	0.008	0.008	0.008	0.010
Modem 49913	1/7/2025 16:30	1/7/2025 16:40	0.007	0.007	0.008	0.008	0.008	0.010
Modem 49913	1/7/2025 16:20	1/7/2025 16:30	0.007	0.007	0.007	0.007	0.008	0.010
Modem 49913	1/7/2025 16:10	1/7/2025 16:20	0.006	0.006	0.006	0.006	0.006	0.011
Modem 49913	1/7/2025 16:00	1/7/2025 16:10	0.007	0.007	0.007	0.007	0.007	0.012
Modem 49913	1/7/2025 15:50	1/7/2025 16:00	0.007	0.007	0.008	0.008	0.008	0.014
Modem 49913	1/7/2025 15:40	1/7/2025 15:50	0.009	0.009	0.009	0.009	0.009	0.015
Modem 49913	1/7/2025 15:30	1/7/2025 15:40	0.010	0.010	0.011	0.011	0.011	0.016
Modem 49913	1/7/2025 15:20	1/7/2025 15:30	0.010	0.011	0.011	0.011	0.011	0.017
Modem 49913	1/7/2025 15:10	1/7/2025 15:20	0.010	0.010	0.010	0.010	0.010	0.018
Modem 49913	1/7/2025 15:00	1/7/2025 15:10	0.011	0.012	0.012	0.012	0.012	0.019
Modem 49913	1/7/2025 14:50	1/7/2025 15:00	0.012	0.012	0.012	0.012	0.012	0.019
Modem 49913	1/7/2025 14:40	1/7/2025 14:50	0.013	0.014	0.014	0.015	0.015	0.020
Modem 49913	1/7/2025 14:30	1/7/2025 14:40	0.013	0.013	0.013	0.013	0.013	0.021
Modem 49913	1/7/2025 14:20	1/7/2025 14:30	0.013	0.013	0.013	0.013	0.013	0.021
Modem 49913	1/7/2025 14:10	1/7/2025 14:20	0.019	0.019	0.019	0.020	0.020	0.022
Modem 49913	1/7/2025 14:00	1/7/2025 14:10	0.020	0.020	0.020	0.021	0.021	0.022
Modem 49913	1/7/2025 13:50	1/7/2025 14:00	0.020	0.020	0.021	0.021	0.021	0.022
Modem 49913	1/7/2025 13:40	1/7/2025 13:50	0.021	0.021	0.021	0.021	0.021	0.023
Modem 49913	1/7/2025 13:30	1/7/2025 13:40	0.022	0.022	0.022	0.022	0.022	0.023
Modem 49913	1/7/2025 13:20	1/7/2025 13:30	0.023	0.023	0.023	0.024	0.024	0.023
Modem 49913	1/7/2025 13:10	1/7/2025 13:20	0.024	0.024	0.024	0.024	0.024	0.023
Modem 49913	1/7/2025 13:00	1/7/2025 13:10	0.024	0.024	0.024	0.024	0.024	0.024
Modem 49913	1/7/2025 12:50	1/7/2025 13:00	0.022	0.022	0.023	0.023	0.023	0.023
Modem 49913	1/7/2025 12:40	1/7/2025 12:50	0.022	0.023	0.023	0.023	0.023	0.022
Modem 49913	1/7/2025 12:30	1/7/2025 12:40	0.020	0.020	0.020	0.021	0.021	0.021

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 min Avg. (mg/m^3)
Modem 49913	1/7/2025 12:20	1/7/2025 12:30	0.021	0.021	0.021	0.021	0.021	0.020
Modem 49913	1/7/2025 12:10	1/7/2025 12:20	0.021	0.021	0.021	0.021	0.021	0.019
Modem 49913	1/7/2025 12:00	1/7/2025 12:10	0.022	0.022	0.022	0.022	0.022	0.018
Modem 49913	1/7/2025 11:50	1/7/2025 12:00	0.023	0.023	0.023	0.023	0.023	0.017
Modem 49913	1/7/2025 11:40	1/7/2025 11:50	0.024	0.024	0.024	0.024	0.024	0.016
Modem 49913	1/7/2025 11:30	1/7/2025 11:40	0.027	0.027	0.027	0.027	0.027	0.015
Modem 49913	1/7/2025 11:20	1/7/2025 11:30	0.024	0.024	0.024	0.024	0.024	0.013
Modem 49913	1/7/2025 11:10	1/7/2025 11:20	0.028	0.028	0.028	0.028	0.028	0.012
Modem 49913	1/7/2025 11:00	1/7/2025 11:10	0.030	0.030	0.030	0.030	0.031	0.011
Modem 49913	1/7/2025 10:50	1/7/2025 11:00	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 10:40	1/7/2025 10:50	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 10:30	1/7/2025 10:40	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 10:20	1/7/2025 10:30	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 10:10	1/7/2025 10:20	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 10:00	1/7/2025 10:10	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/7/2025 9:50	1/7/2025 10:00	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 9:40	1/7/2025 9:50	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 9:30	1/7/2025 9:40	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 9:20	1/7/2025 9:30	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 9:10	1/7/2025 9:20	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 9:00	1/7/2025 9:10	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:50	1/7/2025 9:00	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:40	1/7/2025 8:50	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:30	1/7/2025 8:40	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:20	1/7/2025 8:30	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:10	1/7/2025 8:20	0.008	0.008	0.008	0.009	0.009	
Modem 49913	1/7/2025 8:00	1/7/2025 8:10	0.008	0.008	0.008	0.009	0.009	
Upwind unavailable (unit not functional)								



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
6	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY
SUBGRADE
EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 CA06
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	37
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	08 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast; 1.5 inches of snow on ground surface	**Temperature**	30-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No contaminated soil was excavated today.

b. Repository Excavation: No repository excavation was conducted today.

II. BACKFILL AND COMPACTION

Haley & Aldrich, Inc. (H&A) representative Garrett Jones observed backfilling and compacting in the northwest pit. The material for backfilling consisted of silty sand with gravel. H&A evaluated the top of each lift using a soil density gauge. Test results are shown below in Table 1. The material was placed in lifts of generally 18-inch thickness. Each lift was compacted with the CAT 825C Compactor, using 10 or more passes, to have the required 90% of maximum dry density for the tests performed (see Table 1). Based on the observations, backfill and compaction was completed in general accordance with the plans and specifications.

III. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 96% and the wind direction was west to east.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did not exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and light snowfall. Upwind monitor 47181 appears to be malfunctioning. H&A is working to trouble shoot this issue.

IV. CONFIRMATION SAMPLING:

H&A collected confirmation samples today, as follows:

Name	Time	Analysis	Cut Depth
CP_34_2	09:50	cPAHs	2

Samples will be shipped to the laboratory today (08 January 2025).

V. COMPACTION TESTING

Table 1. Density Testing Summary

Test No.	Location	Maximum Dry Density (pcf)	Field Dry Density (pcf)	Field Density Percentage (%)	Optimum Moisture Content (%)	Field Moisture Content (%)	Pass/Fail?
02-1	NE	134	125.5	93.7	6.7	5.2	Pass
02-2	NE	134	126.7	94.6	6.7	6.3	Pass
02-3	N	134	123.2	91.9	6.7	5.5	Pass
03-4	SW	134	124.7	91.6	6.7	3.9	Pass
03-5	S	134	124.7	93.0	6.7	3.5	Pass
03-6	S	134	131.9	98.5	6.7	7.5	Pass
03-7	SW	134	125.1	93.4	6.7	5.9	Pass
03-8	SE	134	127.6	95.2	6.7	6.3	Pass
03-9	SE	134	127.6	95.3	6.7	4.0	Pass
03-10	SW	134	115.6	86.3	6.7	4.1	Pass
03-11	SW	134	113.0	84.8	6.7	3.8	Pass
02-12	NW	134	131.5	98.1	6.7	4.8	Pass
02-13	NW	134	128.1	95.6	6.7	4.3	Pass
03-1	SE of ramp	134	121.3	90.5	6.7	3.8	Pass
03-2	SE of ramp	134	126.8	94.6	6.7	5.4	Pass
02-3	NW	134	132.8	99.1	6.7	6.1	Pass
02-4	NW	134	132.5	98.9	6.7	5.0	Pass
03-5	SW	134	122.3	91.3	6.7	4.9	Pass
03-6	S	134	126.2	94.2	6.7	5.6	Pass
03-7	SE	134	130.5	97.4	6.7	3.9	Pass
03-8	Middle	134	112.6	84.0	6.7	3.1	Fail
03-9	W	134	108.8	81.2	6.7	3.0	Fail
03-10	W	134	116.7	87.1	6.7	3.1	Fail

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	37
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	08 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast; 1.5 inches of snow on ground surface	**Temperature**	30-32°F

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme about methods used to create passing compaction values within the repository.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	8.35 hours	0.90 hours	9.25 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody
Attachment D – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_08_25_CAL_DFR_37/01-08-24 DFR.docx



Photo 1. CAT 825C (equipment used for compaction today).



Photo 2. Backfill progress of the repository (view looking west).

Site Photographs – 08 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Compaction efforts in the repository (view looking west).

Site Photographs – 08 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Downwind								
Modem 49913	1/8/2025 19:20	1/8/2025 19:30	0.009	0.009	0.009	0.009	0.009	0.011
Modem 49913	1/8/2025 19:10	1/8/2025 19:20	0.008	0.009	0.009	0.009	0.009	0.01
Modem 49913	1/8/2025 19:00	1/8/2025 19:10	0.005	0.005	0.005	0.005	0.005	0.0125
Modem 49913	1/8/2025 18:50	1/8/2025 19:00	0.006	0.006	0.007	0.007	0.007	0.0065
Modem 49913	1/8/2025 18:40	1/8/2025 18:50	0.007	0.007	0.007	0.007	0.007	0.0085
Modem 49913	1/8/2025 18:30	1/8/2025 18:40	0.005	0.006	0.006	0.006	0.006	0.009
Modem 49913	1/8/2025 18:20	1/8/2025 18:30	0.006	0.006	0.006	0.006	0.006	0.006
Modem 49913	1/8/2025 18:10	1/8/2025 18:20	0.004	0.004	0.004	0.004	0.004	0.007
Modem 49913	1/8/2025 18:00	1/8/2025 18:10	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	1/8/2025 17:50	1/8/2025 18:00	0.005	0.005	0.005	0.005	0.005	0.0185
Modem 49913	1/8/2025 17:40	1/8/2025 17:50	0.007	0.007	0.007	0.007	0.007	0.0075
Modem 49913	1/8/2025 17:30	1/8/2025 17:40	0.007	0.007	0.007	0.007	0.007	0.014
Modem 49913	1/8/2025 17:20	1/8/2025 17:30	0.012	0.013	0.013	0.013	0.013	0.012
Modem 49913	1/8/2025 17:10	1/8/2025 17:20	0.01	0.011	0.011	0.011	0.011	0.0075
Modem 49913	1/8/2025 17:00	1/8/2025 17:10	0.019	0.02	0.02	0.02	0.02	0.012
Modem 49913	1/8/2025 16:50	1/8/2025 17:00	0.006	0.006	0.006	0.006	0.006	0.0045
Modem 49913	1/8/2025 16:40	1/8/2025 16:50	0.01	0.01	0.01	0.01	0.01	0.008
Modem 49913	1/8/2025 16:30	1/8/2025 16:40	0.011	0.011	0.012	0.012	0.012	0.009
Modem 49913	1/8/2025 16:20	1/8/2025 16:30	0.006	0.006	0.006	0.006	0.006	0.0075
Modem 49913	1/8/2025 16:10	1/8/2025 16:20	0.01	0.01	0.01	0.01	0.01	0.0155
Modem 49913	1/8/2025 16:00	1/8/2025 16:10	0.006	0.006	0.007	0.007	0.007	0.008
Modem 49913	1/8/2025 15:50	1/8/2025 16:00	0.031	0.031	0.032	0.032	0.032	0.019
Modem 49913	1/8/2025 15:40	1/8/2025 15:50	0.008	0.008	0.008	0.008	0.008	0.0105
Modem 49913	1/8/2025 15:30	1/8/2025 15:40	0.02	0.021	0.021	0.021	0.021	0.016
Modem 49913	1/8/2025 15:20	1/8/2025 15:30	0.011	0.011	0.011	0.011	0.011	0.01
Modem 49913	1/8/2025 15:10	1/8/2025 15:20	0.004	0.004	0.004	0.004	0.004	0.0065
Modem 49913	1/8/2025 15:00	1/8/2025 15:10	0.003	0.003	0.004	0.004	0.004	0.0065
Modem 49913	1/8/2025 14:50	1/8/2025 15:00	0.003	0.003	0.003	0.003	0.003	0.0095
Modem 49913	1/8/2025 14:40	1/8/2025 14:50	0.005	0.006	0.006	0.006	0.006	0.0085
Modem 49913	1/8/2025 14:30	1/8/2025 14:40	0.006	0.006	0.006	0.006	0.006	0.0095
Modem 49913	1/8/2025 14:20	1/8/2025 14:30	0.009	0.009	0.009	0.009	0.009	0.01
Modem 49913	1/8/2025 14:10	1/8/2025 14:20	0.021	0.021	0.021	0.021	0.021	0.0155
Modem 49913	1/8/2025 14:00	1/8/2025 14:10	0.009	0.009	0.009	0.009	0.009	0.009
Modem 49913	1/8/2025 13:50	1/8/2025 14:00	0.006	0.006	0.006	0.006	0.006	0.009
Modem 49913	1/8/2025 13:40	1/8/2025 13:50	0.012	0.013	0.013	0.013	0.013	0.01
Modem 49913	1/8/2025 13:30	1/8/2025 13:40	0.011	0.011	0.011	0.011	0.011	0.0105
Modem 49913	1/8/2025 13:20	1/8/2025 13:30	0.008	0.009	0.009	0.009	0.009	0.0105
Modem 49913	1/8/2025 13:10	1/8/2025 13:20	0.009	0.009	0.009	0.009	0.009	0.01
Modem 49913	1/8/2025 13:00	1/8/2025 13:10	0.009	0.009	0.009	0.009	0.009	0.0145
Modem 49913	1/8/2025 12:50	1/8/2025 13:00	0.016	0.016	0.016	0.016	0.016	0.0225
Modem 49913	1/8/2025 12:40	1/8/2025 12:50	0.01	0.01	0.01	0.011	0.011	0.009
Modem 49913	1/8/2025 12:30	1/8/2025 12:40	0.012	0.013	0.013	0.013	0.013	0.0135
Modem 49913	1/8/2025 12:20	1/8/2025 12:30	0.011	0.011	0.011	0.011	0.011	
Modem 49913	1/8/2025 12:10	1/8/2025 12:20	0.01	0.01	0.01	0.01	0.01	
Modem 49913	1/8/2025 12:00	1/8/2025 12:10	0.009	0.009	0.009	0.009	0.009	
Modem 49913	1/8/2025 11:50	1/8/2025 12:00	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/8/2025 11:40	1/8/2025 11:50	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/8/2025 11:30	1/8/2025 11:40	0.01	0.01	0.01	0.01	0.01	
Modem 49913	1/8/2025 11:20	1/8/2025 11:30	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/8/2025 11:10	1/8/2025 11:20	0.011	0.011	0.011	0.011	0.011	

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/8/2025 11:00	1/8/2025 11:10	0.02	0.02	0.02	0.02	0.02	
Modem 49913	1/8/2025 10:50	1/8/2025 11:00	0.029	0.029	0.029	0.029	0.029	
Modem 49913	1/8/2025 10:40	1/8/2025 10:50	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/8/2025 10:30	1/8/2025 10:40	0.013	0.013	0.013	0.014	0.014	
Upwind unavailable (unit not functional)								

CL

~~SAMPLE~~ CHAIN OF CUSTODY

Page # 1 of 1

Report To Breeyn Greer
Company
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*): Cam Luckey
PROJECT NAME: CVSD Gun Club
PO #: 0202349-002
REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No
INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

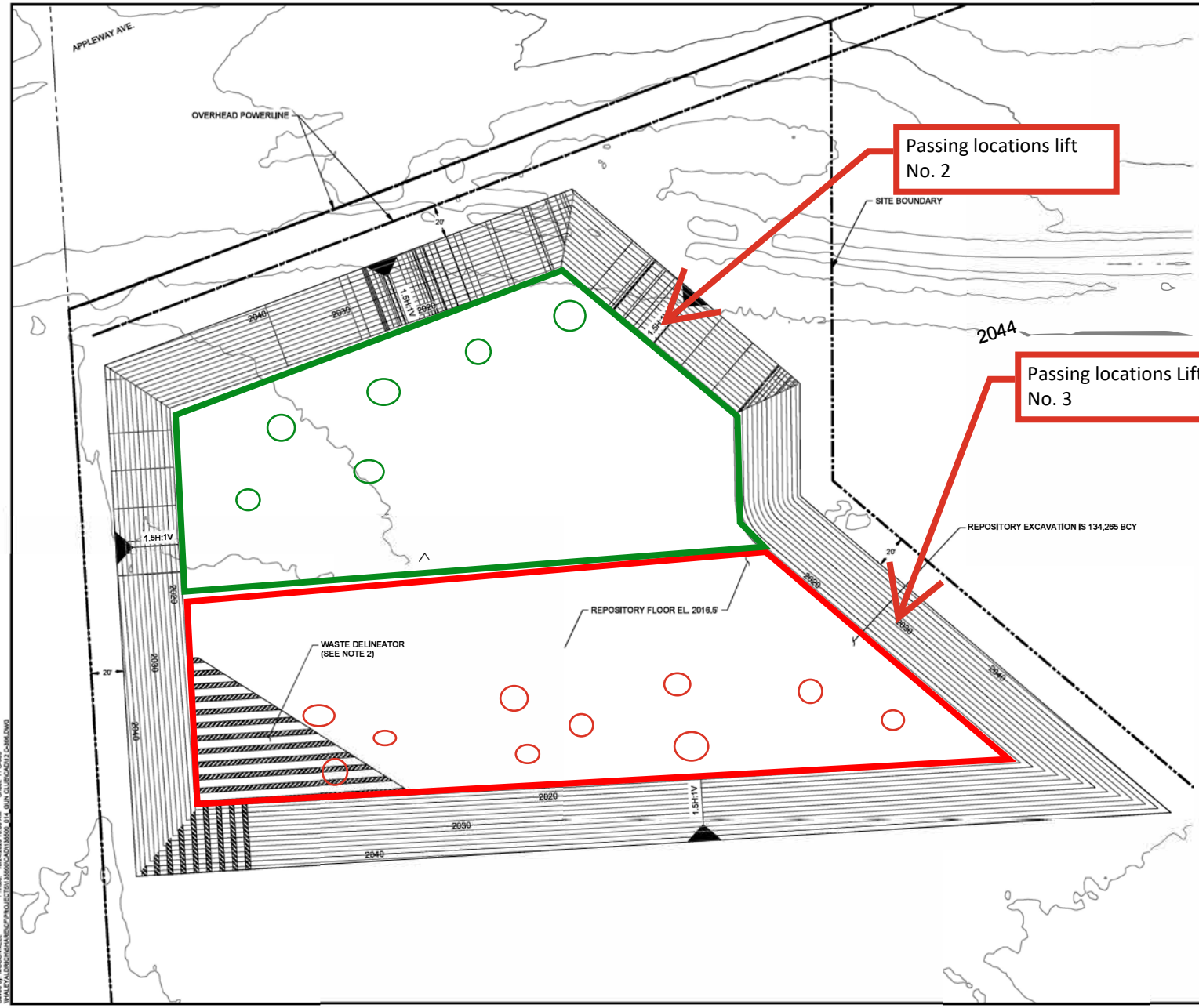
SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	cPAHs (project specific LIST	ISM processing				Notes
CP_34_2		01-08-25	9:50	Soil	1							X	X				

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Cam Luckey	Cameron Luckey	Haley + Aldrich	01-08-25	1221
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282



NOTES

1. PRIORTO EXCAVATION TOPSOIL SHALLBE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTORASTM D 1557/AASHTO T 180.
6. CONCRETEAND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALLSTOCKPILEBOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NEST THEM SUCH THAT VOIDS ARE TED, BOULDERS AND COBBLES SHALL BE AD OUT UNIFORMLY SO SOIL FILLS ND THEM.
9. EMENT OF OVERSIZED MATERIALS (12 - 24 S SHALL ALLOW COMPACTION MENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZSONO
Designed By:	BD
Checked By:	KH
Approved By:	JHKH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/16/23
0	ISSUED FOR BID	BD	10/16/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL
Printed: 10/24/2023 10:00 AM
Sheet: 11 C-306

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	38
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	09 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	27-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme began over excavating Sampling Units 50, 38, and 39. Halme hauled this contaminated material directly into the repository.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Lift No. 4 passed compaction testing and completely backfilled. Lift No. 5 compaction testing and backfilling was not completed by the end of operations today.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 98% and the wind direction was north to south. It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10}120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and light snowfall. Upwind monitor 47181 appears to be malfunctioning. H&A is working to trouble shoot this issue. Dust data is attached.

III. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

IV. COMPACTION TESTING

H&A observed that four passes with a sheep's foot CAT roller created passing compaction values. This CAT roller would then use its blade to create a flat area for H&A to compaction test. Halme was generally working north to south when backfilling and compacting the repository. A minimum of one compaction test was conducted per every 5,000 square feet within the repository, with a compaction of 90% of maximum dry density or greater considered adequate. A map of compacted Lift No. 4 of the repository is attached; Lift No. 5 map will be included in the Daily Field Report on the day it is completed.

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	38
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	09 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	27-32°F

Lift No. 4:

Test	%PR	DD	WD	%m	P/F
04/01-	89%	118.8	123.2	3.7	P
04/02-	90%	120.7	126.3	4.6	P
04/03-	93%	124.5	130.4	4.7	P
04/04-	87%	117.2	122.3	4.4	F
04/05-	93%	124.1	129.7	4.5	P
04/06-	82%	110.3	117.6	6.7	F
04/07-	89%	118.8	125.6	5.8	P
04/08-	97%	130.2	136	4.4	P
04/09-	93%	124.3	129.9	4.5	P
04/10-	92%	123.1	129.7	5.3	P
04/11-	95%	127.4	133.9	5.1	P
04/12-	83%	110.8	116.5	5.2	F
04/13-	86%	114.6	120.5	5.2	F
04/14-	96%	128.4	134.7	4.9	P
04/15-	93%	125.1	130.5	4.4	P
04/16-	99%	133.2	140.9	5.8	P
04/17-	98%	131.9	139.2	5.5	P
04/18-	94%	125.7	130	3.5	P
04/19-	91%	122.4	128.3	4.9	P
04/20-	97%	130.4	138.5	6.3	P

Lift No. 5

Test	%PR	DD	WD	%m	P/F
05/01-	93%	124	130.7	5.4	P
05/02-	90%	120.8	128.3	6.2	P
05/03-	93%	125.1	134.3	7.4	P
05/04-	93%	124.5	134.1	7.7	P
05/05-	75%	100.4	107.4	7.1	F
05/06-	90%	120.1	127.4	6.1	P
05/07-	92%	122.9	129.9	5.7	P
05/08-	101%	135.1	142	5.1	P
05/09-	100%	133.7	140	4.8	P
05/10-	96%	129	135.4	5	P
05/11-	97%	129.7	137	5.7	P
05/12-	82%	109.8	117.5	7	F
05/13-	89%	119.4	125.8	5.3	P

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with Jake of Halme about passing and failing units and backfill means and methods of compaction.

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.85 hours	0.90 hours	10.75 hours

Distribution:

CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:

Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_09_25_CAL_DFR_38/01-09-24 DFR.docx



Haley & Aldrich, Inc.



Photo 1. Backfill progress of contaminated material (view looking east).

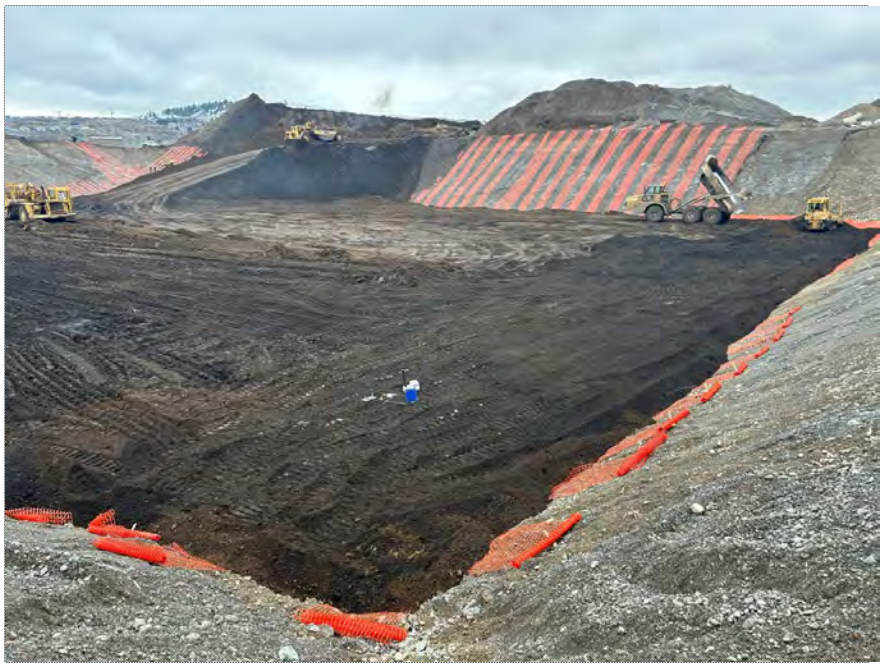


Photo 2. Backfill progression with access ramp (view looking southeast).

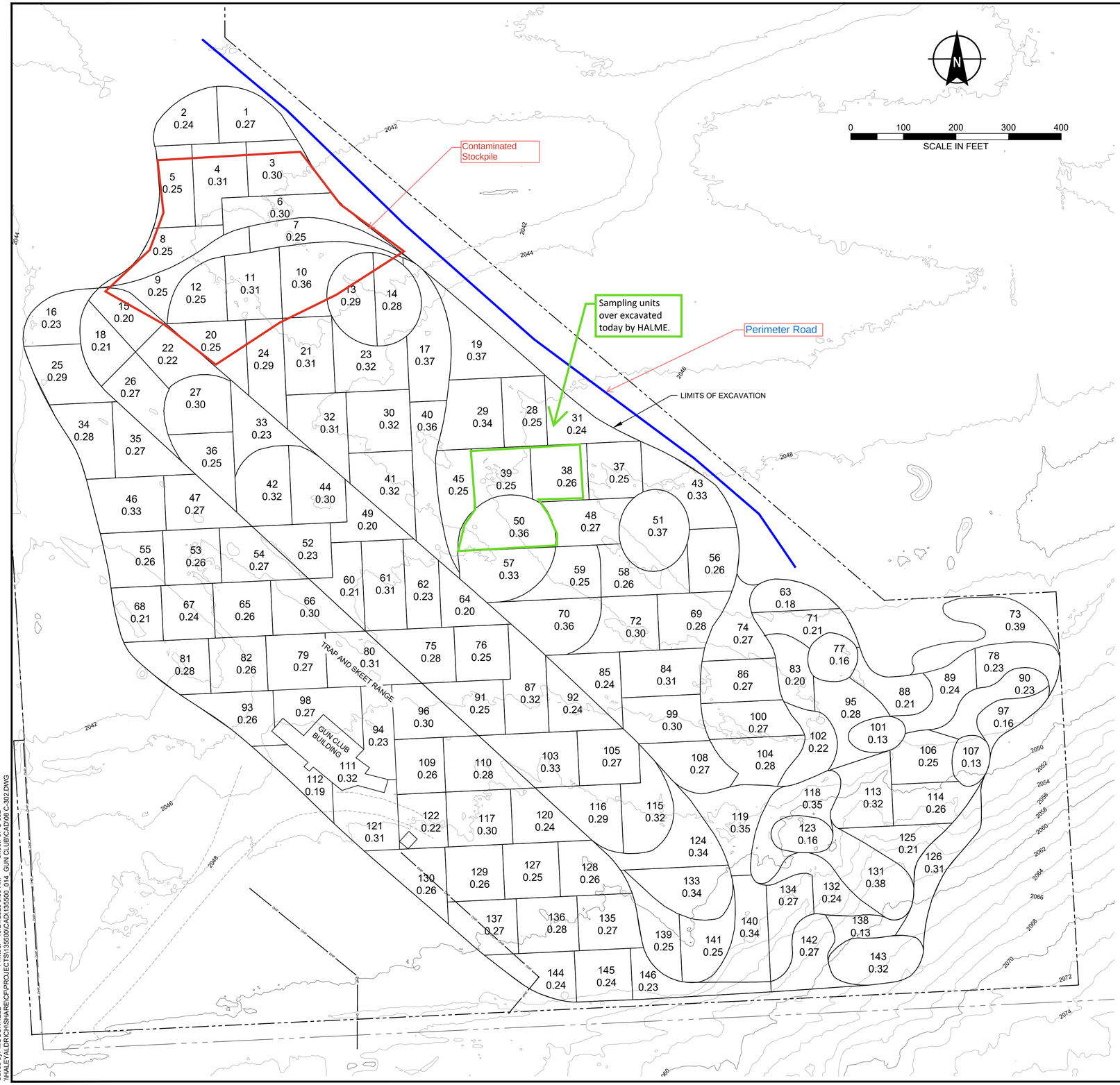
Site Photographs – 09 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/9/2025 19:20	1/9/2025 19:30	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	1/9/2025 19:10	1/9/2025 19:20	0.007	0.007	0.007	0.008	0.008	0.021
Modem 49913	1/9/2025 19:00	1/9/2025 19:10	0.009	0.009	0.009	0.009	0.009	0.020
Modem 49913	1/9/2025 18:50	1/9/2025 19:00	0.01	0.01	0.01	0.01	0.01	0.014
Modem 49913	1/9/2025 18:40	1/9/2025 18:50	0.01	0.01	0.01	0.01	0.01	0.041
Modem 49913	1/9/2025 18:30	1/9/2025 18:40	0.006	0.006	0.006	0.006	0.006	0.015
Modem 49913	1/9/2025 18:20	1/9/2025 18:30	0.008	0.008	0.008	0.008	0.008	0.025
Modem 49913	1/9/2025 18:10	1/9/2025 18:20	0.005	0.005	0.005	0.005	0.005	0.022
Modem 49913	1/9/2025 18:00	1/9/2025 18:10	0.004	0.004	0.004	0.004	0.004	0.017
Modem 49913	1/9/2025 17:50	1/9/2025 18:00	0.008	0.008	0.008	0.009	0.009	0.018
Modem 49913	1/9/2025 17:40	1/9/2025 17:50	0.004	0.004	0.004	0.004	0.004	0.012
Modem 49913	1/9/2025 17:30	1/9/2025 17:40	0.017	0.017	0.017	0.017	0.017	0.018
Modem 49913	1/9/2025 17:20	1/9/2025 17:30	0.006	0.006	0.006	0.006	0.006	0.012
Modem 49913	1/9/2025 17:10	1/9/2025 17:20	0.033	0.033	0.033	0.033	0.033	0.026
Modem 49913	1/9/2025 17:00	1/9/2025 17:10	0.03	0.031	0.031	0.031	0.031	0.031
Modem 49913	1/9/2025 16:50	1/9/2025 17:00	0.017	0.017	0.017	0.017	0.017	0.025
Modem 49913	1/9/2025 16:40	1/9/2025 16:50	0.071	0.071	0.071	0.071	0.071	0.049
Modem 49913	1/9/2025 16:30	1/9/2025 16:40	0.023	0.023	0.023	0.024	0.024	0.028
Modem 49913	1/9/2025 16:20	1/9/2025 16:30	0.041	0.041	0.041	0.041	0.041	0.033
Modem 49913	1/9/2025 16:10	1/9/2025 16:20	0.037	0.037	0.037	0.038	0.038	0.035
Modem 49913	1/9/2025 16:00	1/9/2025 16:10	0.028	0.028	0.028	0.029	0.029	0.029
Modem 49913	1/9/2025 15:50	1/9/2025 16:00	0.025	0.026	0.026	0.026	0.026	0.018
Modem 49913	1/9/2025 15:40	1/9/2025 15:50	0.018	0.018	0.018	0.019	0.019	0.014
Modem 49913	1/9/2025 15:30	1/9/2025 15:40	0.018	0.018	0.018	0.018	0.018	0.016
Modem 49913	1/9/2025 15:20	1/9/2025 15:30	0.017	0.017	0.017	0.017	0.017	0.015
Modem 49913	1/9/2025 15:10	1/9/2025 15:20	0.018	0.018	0.018	0.018	0.018	0.013
Modem 49913	1/9/2025 15:00	1/9/2025 15:10	0.029	0.03	0.03	0.03	0.03	0.018
Modem 49913	1/9/2025 14:50	1/9/2025 15:00	0.031	0.031	0.032	0.032	0.032	0.019
Modem 49913	1/9/2025 14:40	1/9/2025 14:50	0.025	0.025	0.025	0.026	0.026	0.015
Modem 49913	1/9/2025 14:30	1/9/2025 14:40	0.03	0.03	0.03	0.031	0.031	0.021
Modem 49913	1/9/2025 14:20	1/9/2025 14:30	0.024	0.024	0.024	0.024	0.024	0.022
Modem 49913	1/9/2025 14:10	1/9/2025 14:20	0.03	0.03	0.03	0.031	0.031	0.027
Modem 49913	1/9/2025 14:00	1/9/2025 14:10	0.028	0.028	0.028	0.028	0.028	0.026
Modem 49913	1/9/2025 13:50	1/9/2025 14:00	0.01	0.01	0.01	0.01	0.01	0.016
Modem 49913	1/9/2025 13:40	1/9/2025 13:50	0.008	0.008	0.009	0.009	0.009	0.015
Modem 49913	1/9/2025 13:30	1/9/2025 13:40	0.013	0.013	0.013	0.013	0.013	0.017
Modem 49913	1/9/2025 13:20	1/9/2025 13:30	0.011	0.012	0.012	0.012	0.012	0.019
Modem 49913	1/9/2025 13:10	1/9/2025 13:20	0.007	0.007	0.007	0.007	0.007	0.015
Modem 49913	1/9/2025 13:00	1/9/2025 13:10	0.006	0.006	0.006	0.006	0.006	0.017
Modem 49913	1/9/2025 12:50	1/9/2025 13:00	0.005	0.005	0.005	0.005	0.005	0.017
Modem 49913	1/9/2025 12:40	1/9/2025 12:50	0.004	0.004	0.004	0.004	0.004	0.015
Modem 49913	1/9/2025 12:30	1/9/2025 12:40	0.01	0.01	0.01	0.01	0.01	0.021
Modem 49913	1/9/2025 12:20	1/9/2025 12:30	0.019	0.019	0.019	0.019	0.019	#REF!
Modem 49913	1/9/2025 12:10	1/9/2025 12:20	0.022	0.022	0.022	0.023	0.023	0.023
Modem 49913	1/9/2025 12:00	1/9/2025 12:10	0.024	0.024	0.024	0.024	0.024	0.024
Modem 49913	1/9/2025 11:50	1/9/2025 12:00	0.022	0.022	0.022	0.022	0.022	0.022
Modem 49913	1/9/2025 11:40	1/9/2025 11:50	0.021	0.021	0.021	0.021	0.021	0.021
Modem 49913	1/9/2025 11:30	1/9/2025 11:40	0.021	0.021	0.021	0.021	0.021	0.021
Modem 49913	1/9/2025 11:20	1/9/2025 11:30	0.025	0.025	0.025	0.025	0.025	0.025
Modem 49913	1/9/2025 11:10	1/9/2025 11:20	0.021	0.021	0.022	0.022	0.022	0.022

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/9/2025 11:00	1/9/2025 11:10	0.028	0.028	0.028	0.028	0.028	0.028
Modem 49913	1/9/2025 10:50	1/9/2025 11:00	0.028	0.028	0.028	0.028	0.028	0.028
Modem 49913	1/9/2025 10:40	1/9/2025 10:50	0.026	0.026	0.026	0.026	0.026	0.026
Modem 49913	1/9/2025 10:30	1/9/2025 10:40	0.031	0.031	0.031	0.031	0.031	0.031
Upwind Unavailable (unit not functioning)								



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
9 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

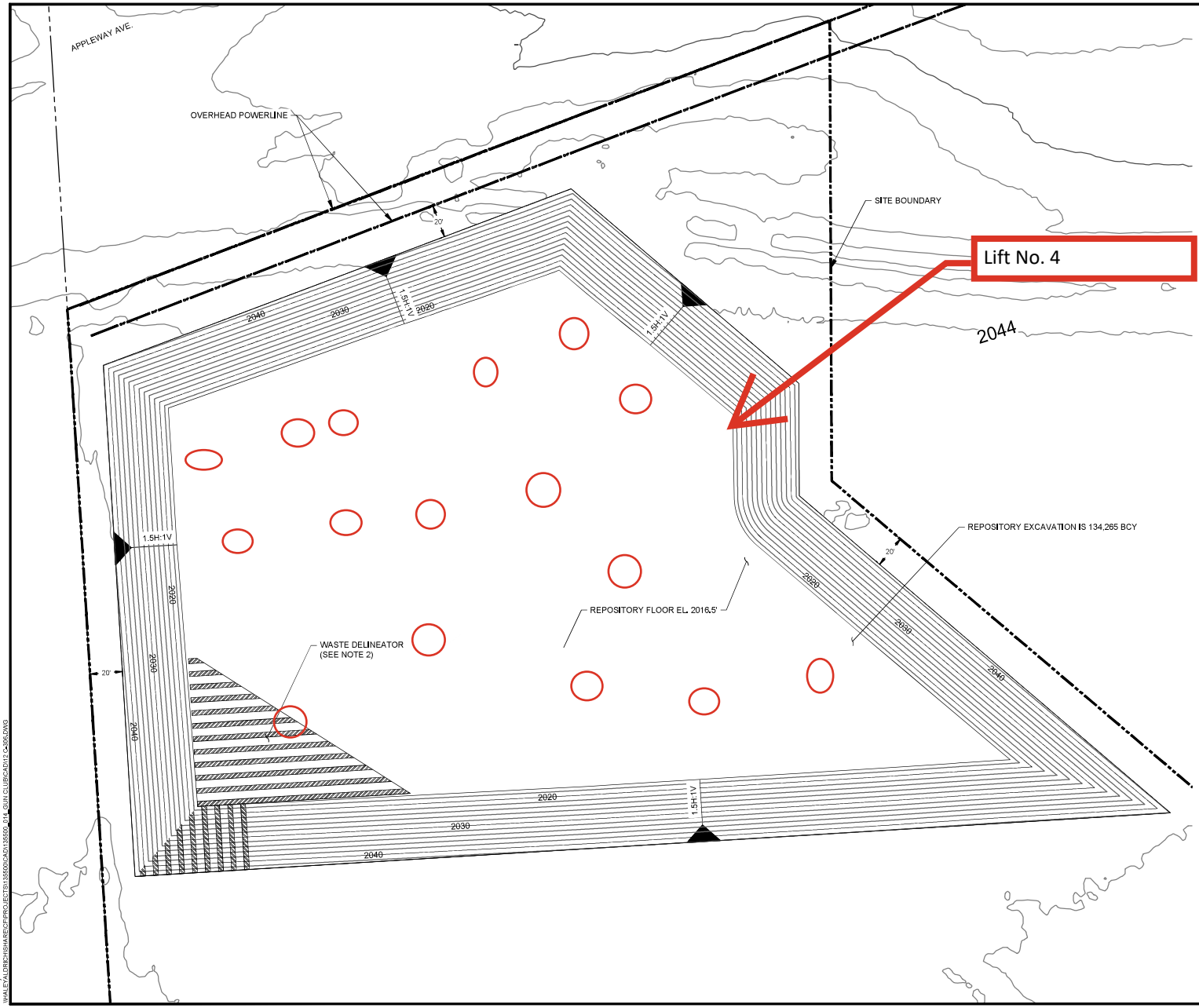
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
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9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
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CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL
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Printed: 10/24/2023 10:00 AM
Sheet: 11 C-306

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	39
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	10 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast, Intermittent Snow	**Temperature**	27-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme continued over excavation of the northeast portion of the site just south of the contaminated material stockpile. This excavation included sample units 17, 20, 21, 23, 24, 29, 30, 31, 32, 38, 39, 40, 41, 45, 48, and 50. This material was excavated directly into the repository. Halme made the initial passes of units included; however, Halme did not complete the over excavation of listed units. Units will be undergoing final preparation for sampling tomorrow.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Lift No. 5 passed compaction testing and completely backfilled. Lift No. 6 compaction testing and backfilling was not completed by the end of operations today.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 90% and the wind direction was north to south.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and light snowfall. Upwind monitor 47181 is malfunctioning. Haley & Aldrich, Inc. (H&A) is working to troubleshoot this issue. Dust data attached.

III. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

IV. COMPACTION TESTING

H&A observed that four passes with a sheep's foot CAT roller created passing compaction values. This CAT roller would then use its blade to create a flat area for H&A to compaction test. A minimum of one compaction test was conducted per every 5,000 square feet within the repository. Halme generally works north to south when backfilling and compacting the repository. A map of Lift No. 5 is attached; a map of Lift No. 6 will be included in the Daily Field Report for the day it is completed.

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	39
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	10 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast, Intermittent Snow	**Temperature**	27-32°F

Lift No. 5

05/14-	90%	121.1	127	4.8	P
05/15-	94%	126.3	131.7	4.3	P
05/16-	93%	124	130.9	5.6	P
05/17-	90%	121	125.1	3.4	P
05/18-	93%	124.3	130.7	5.1	P
05/19-	100%	133.8	138.5	3.6	P
05/20-	102%	136.1	141.7	5.6	P

Lift No. 6

Test	%PR	DD	WD	%m	P/F
06/01-	97%	130.4	134.1	2.8	P
06/02-	92%	123.9	130.5	5.3	P
06/03-	92%	122.7	129	5.1	P
06/04-	90%	120.6	124.3	3.1	P
06/05-	93%	124.2	132.5	6.7	P
06/06-	92%	122.9	129	4.9	P
06/07-	94%	126.3	132.2	4.7	P
06/08-	88%	117.5	123.8	5.4	P
06/09-	94%	125.4	136	8.5	P
06/10-	96%	128.9	135.9	5.4	P
06/11-	91%	122.4	129.4	5.7	P
06/12-	92%	123	132.4	7.6	P
06/13-	91%	121.7	129.9	6.7	P
06/14-	95%	127.8	136.4	6.7	P
06/15-	87%	117.2	129.3	10.3	F
06/15-	94%	125.9	132.3	5	P

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with Jake of Halme about passing and failing units and backfill means and methods of compaction.

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.10 hours	0.90 hours	11.00 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan (Lift No. 5)
Attachment D – Repository Subgrade Excavation Plan (Lift No. 6)
Attachment E – Confirmation Sampling Plan



Haley & Aldrich, Inc.



Photo 1. Backfill progress and site conditions (view looking west).



Photo 2. Backfill progress and site conditions (view looking southwest).

Site Photographs – 10 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Over excavation progress (view looking northwest).



Photo 4. Over excavation progress (view looking southwest).

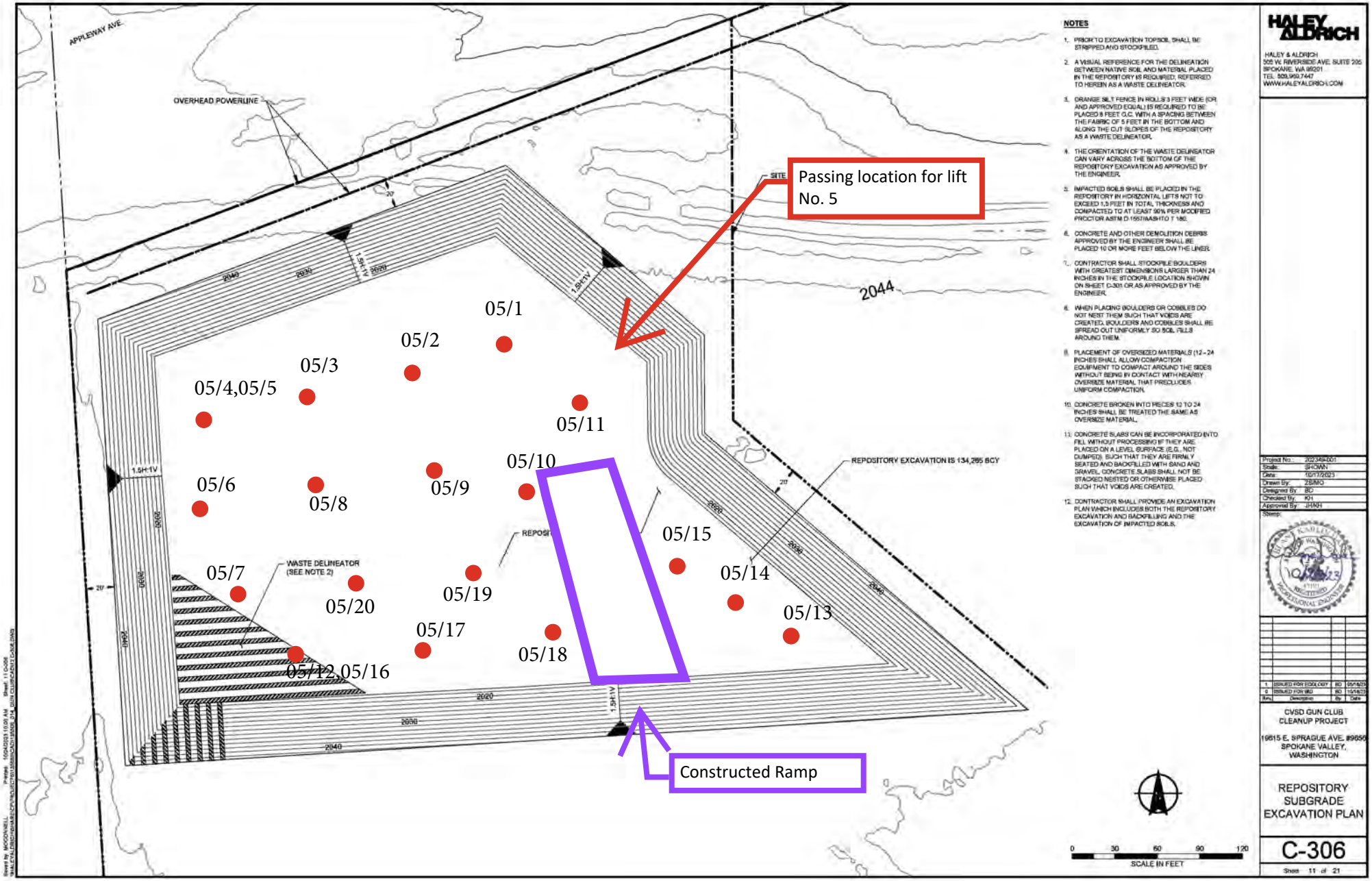
Site Photographs – 10 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/10/2025 19:10	1/10/2025 19:20	0.005	0.005	0.005	0.005	0.005	0.003
Modem 49913	1/10/2025 19:00	1/10/2025 19:10	0.011	0.011	0.011	0.011	0.011	0.006
Modem 49913	1/10/2025 18:50	1/10/2025 19:00	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	1/10/2025 18:40	1/10/2025 18:50	0	0	0	0	0	0.000
Modem 49913	1/10/2025 18:30	1/10/2025 18:40	0.002	0.002	0.002	0.002	0.002	0.004
Modem 49913	1/10/2025 18:20	1/10/2025 18:30	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	1/10/2025 18:10	1/10/2025 18:20	0.002	0.002	0.002	0.002	0.002	0.004
Modem 49913	1/10/2025 18:00	1/10/2025 18:10	0	0	0	0	0	0.001
Modem 49913	1/10/2025 17:50	1/10/2025 18:00	0	0	0	0	0	0.001
Modem 49913	1/10/2025 17:40	1/10/2025 17:50	0	0	0	0	0	0.000
Modem 49913	1/10/2025 17:30	1/10/2025 17:40	0.001	0.001	0.001	0.001	0.001	0.004
Modem 49913	1/10/2025 17:20	1/10/2025 17:30	0.002	0.002	0.002	0.002	0.002	0.002
Modem 49913	1/10/2025 17:10	1/10/2025 17:20	0	0	0	0	0	0.000
Modem 49913	1/10/2025 17:00	1/10/2025 17:10	0	0	0	0	0	0.000
Modem 49913	1/10/2025 16:50	1/10/2025 17:00	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	1/10/2025 16:40	1/10/2025 16:50	0	0	0	0	0	0.006
Modem 49913	1/10/2025 16:30	1/10/2025 16:40	0.006	0.006	0.006	0.006	0.006	0.007
Modem 49913	1/10/2025 16:20	1/10/2025 16:30	0	0	0	0	0	0.004
Modem 49913	1/10/2025 16:10	1/10/2025 16:20	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/10/2025 16:00	1/10/2025 16:10	0.002	0.002	0.002	0.002	0.002	0.002
Modem 49913	1/10/2025 15:50	1/10/2025 16:00	0	0	0	0.001	0.001	0.003
Modem 49913	1/10/2025 15:40	1/10/2025 15:50	0	0	0	0	0	0.013
Modem 49913	1/10/2025 15:30	1/10/2025 15:40	0.006	0.006	0.006	0.006	0.006	0.013
Modem 49913	1/10/2025 15:20	1/10/2025 15:30	0.001	0.001	0.001	0.001	0.001	0.011
Modem 49913	1/10/2025 15:10	1/10/2025 15:20	0	0	0	0	0	0.009
Modem 49913	1/10/2025 15:00	1/10/2025 15:10	0	0	0	0	0	0.009
Modem 49913	1/10/2025 14:50	1/10/2025 15:00	0	0	0	0	0	0.008
Modem 49913	1/10/2025 14:40	1/10/2025 14:50	0.012	0.012	0.012	0.012	0.012	0.014
Modem 49913	1/10/2025 14:30	1/10/2025 14:40	0.007	0.007	0.007	0.007	0.007	0.012
Modem 49913	1/10/2025 14:20	1/10/2025 14:30	0.007	0.007	0.007	0.007	0.007	0.012
Modem 49913	1/10/2025 14:10	1/10/2025 14:20	0.003	0.003	0.003	0.004	0.004	0.013
Modem 49913	1/10/2025 14:00	1/10/2025 14:10	0.001	0.001	0.001	0.002	0.002	0.011
Modem 49913	1/10/2025 13:50	1/10/2025 14:00	0.004	0.004	0.004	0.004	0.004	0.012
Modem 49913	1/10/2025 13:40	1/10/2025 13:50	0.024	0.024	0.025	0.025	0.025	0.024
Modem 49913	1/10/2025 13:30	1/10/2025 13:40	0.018	0.018	0.018	0.019	0.019	0.020
Modem 49913	1/10/2025 13:20	1/10/2025 13:30	0.02	0.02	0.021	0.021	0.021	0.023
Modem 49913	1/10/2025 13:10	1/10/2025 13:20	0.017	0.017	0.018	0.018	0.018	0.023
Modem 49913	1/10/2025 13:00	1/10/2025 13:10	0.016	0.016	0.017	0.017	0.017	0.024
Modem 49913	1/10/2025 12:50	1/10/2025 13:00	0.015	0.015	0.015	0.015	0.015	0.024
Modem 49913	1/10/2025 12:40	1/10/2025 12:50	0.015	0.015	0.015	0.015	0.015	0.025
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Modem 49913	1/10/2025 12:10	1/10/2025 12:20	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/10/2025 12:00	1/10/2025 12:10	0.02	0.02	0.02	0.02	0.02	
Modem 49913	1/10/2025 11:50	1/10/2025 12:00	0.02	0.02	0.02	0.02	0.02	
Modem 49913	1/10/2025 11:40	1/10/2025 11:50	0.022	0.022	0.023	0.023	0.023	
Modem 49913	1/10/2025 11:30	1/10/2025 11:40	0.02	0.02	0.021	0.021	0.021	

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Modem 49913	1/10/2025 11:20	1/10/2025 11:30	0.025	0.025	0.025	0.025	0.025	
Modem 49913	1/10/2025 11:10	1/10/2025 11:20	0.027	0.027	0.027	0.027	0.027	
Modem 49913	1/10/2025 11:00	1/10/2025 11:10	0.03	0.03	0.03	0.03	0.03	
Modem 49913	1/10/2025 10:50	1/10/2025 11:00	0.032	0.032	0.032	0.032	0.032	
Modem 49913	1/10/2025 10:40	1/10/2025 10:50	0.033	0.033	0.034	0.034	0.034	
Modem 49913	1/10/2025 10:30	1/10/2025 10:40	0.041	0.041	0.042	0.042	0.042	
Upwind unavailable (unit malfunctioning)								



NOTES

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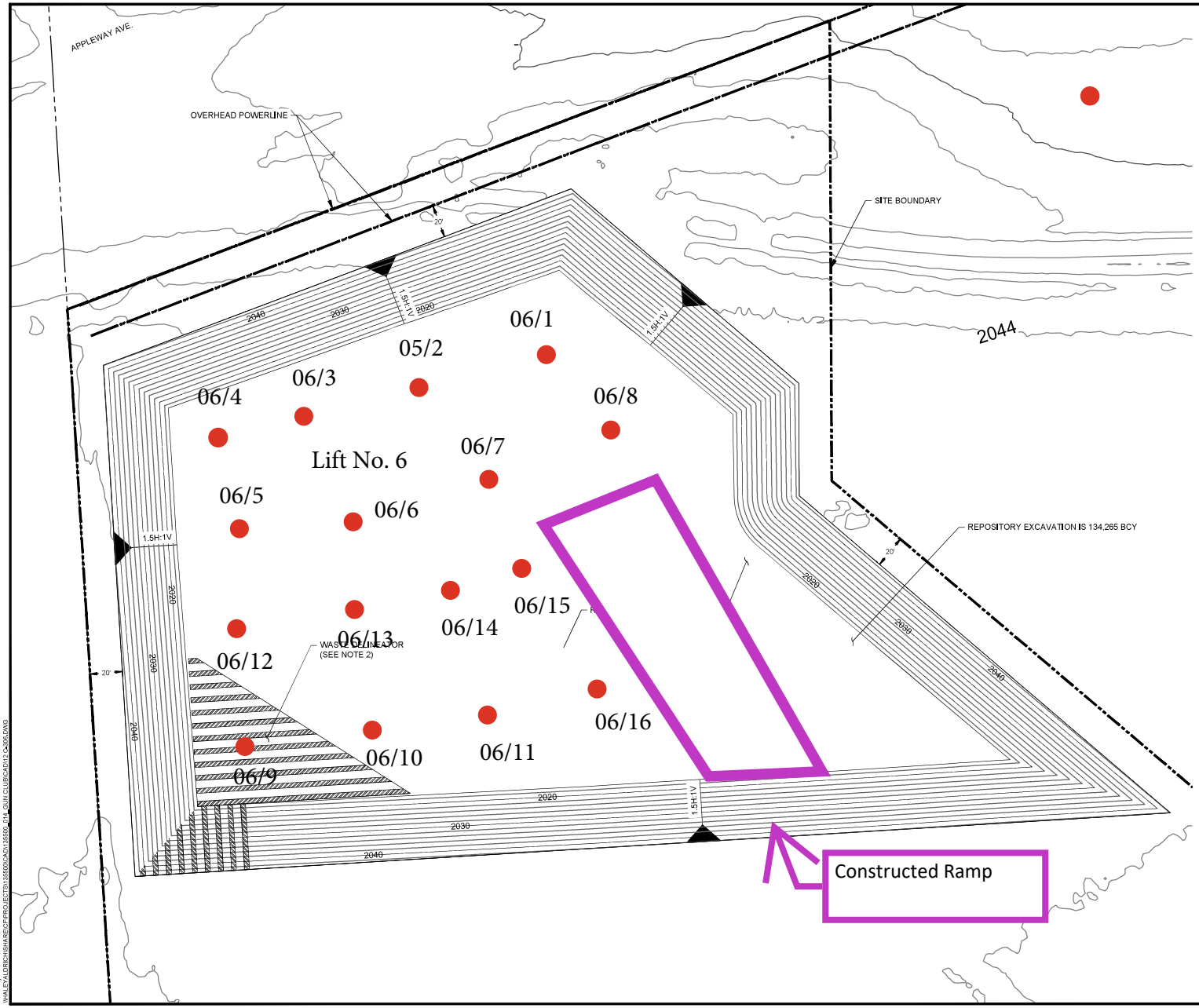
CVSD GUN CLUB CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9650
SPOKANE VALLEY, WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21



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1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
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3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

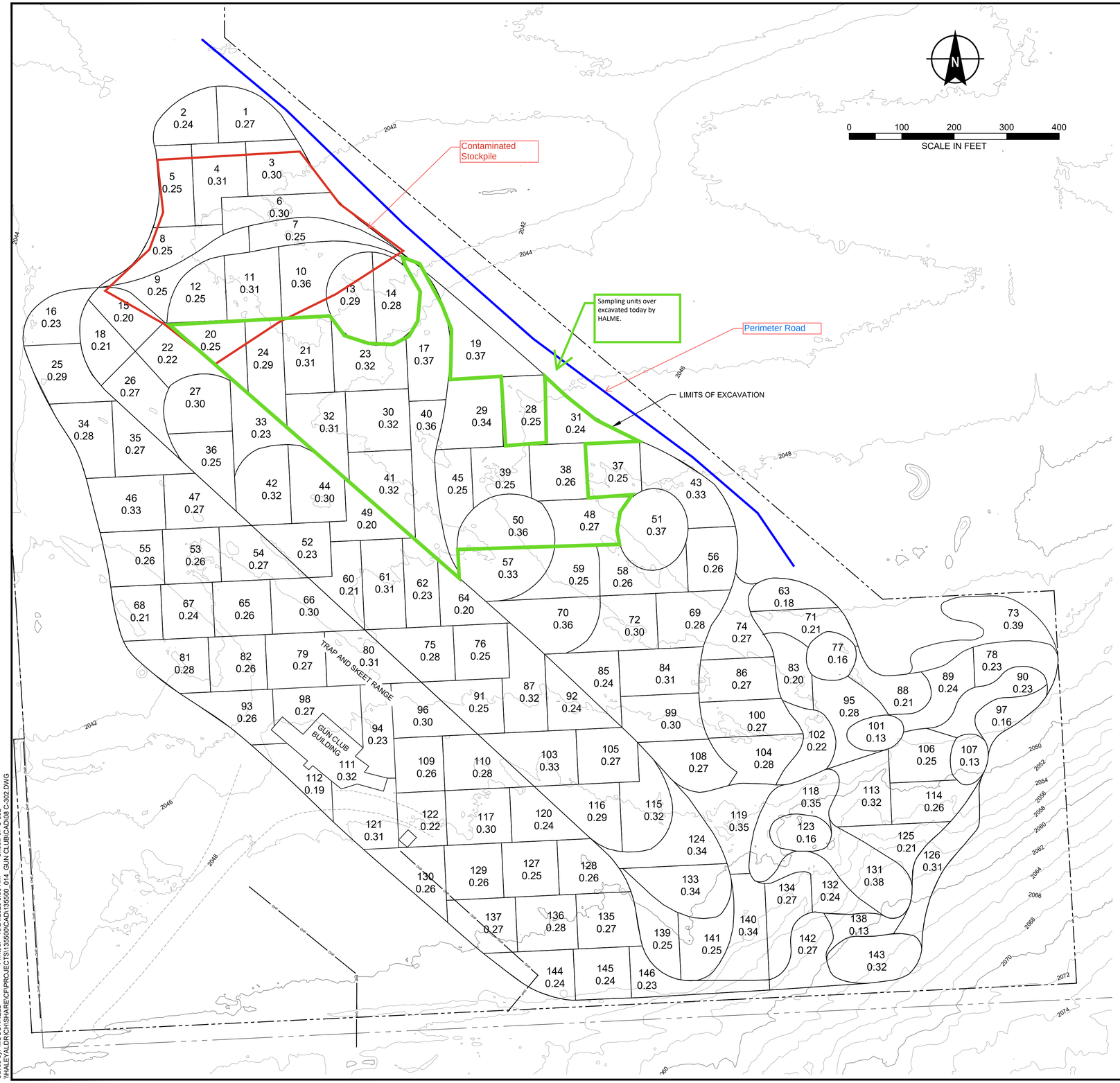
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

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\\HALEYALDRICH\SHARE\CPROJECTS\135000\CA01135000_CVSD_GUN CLUB\CADD\12 C-306.DWG



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
10 Jan 2025

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
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CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	40
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	13 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme completed the final preparation of over excavated units starting at approximately sampling unit 24. Halme then continued final preparation of these units working south. These activities lasted the length of the day. Units were over excavated to 2.5-3 feet below original ground surface. One D11 dozer was utilized for over excavation activities, while a grader was used to prep units for sampling after the bulk of material was removed. Contaminated dirt was pushed east to the haul road, loaded into haul trucks, and transported directly into the repository. Haley & Aldrich, Inc. (H&A) inspected over excavated units; results are as follows:

- Sample unit 40 was noted to have a darker base soil;
- Sample unit 23 has a blue tarp and dark discolored soil, and will need additional over excavation; and
- Sample units 17-19 have a small area of discolored soil in the northeast corner which warrants additional over excavation.

Units that were noted for over excavation were over excavated by Halme by the end of excavation day. Map of units over excavated attached.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: No backfill operation of sampling units occurred today.

II. BACKFILL AND COMPACTION

H&A representative Garrett Jones observed backfilling and compacting in the repository. The material for backfilling consisted of silty sand with gravel. H&A evaluated the top of each lift using a soil density gauge. Test results are shown below in Table 1. The material was placed in lifts of generally 18-inch thickness. Each lift was compacted with the CAT 825C Compactor, using 10 or more passes, to have the required minimum density for the density tests performed (see Table 1). Test Number 07-05 failed the density test; H&A informed the contractor to add more passes with the compactor. After adding more passes, the H&A confirmed that the soil was firm and unyielding. Based on the observations, backfill and compaction was completed in general accordance with the plans and specifications.

III. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 95% and the wind direction was west to east. It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did not exceed the threshold of 0.025 mg/m^3 during excavation activities today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and residual snow. Upwind monitor 47181 is malfunctioning. H&A is working to trouble shoot this issue. Dust data is attached.

IV. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

V. COMPACTION TESTING

Table 1. Density Testing Summary

Test No. (Lift/#)	Maximum Dry Density (pcf)	Field Dry Density (pcf)	Field Density Percentage (%)	Optimum Moisture Content (%)	Field Moisture Content (%)	Pass/Fail?
06-1	134.0	123.53	92.19	6.7	2.43	Pass
06-2	134.0	122.9	91.72	6.7	8.58	Pass
07-01	134.0	125.84	93.91	6.7	6.17	Pass
07-02	134.0	128.16	95.64	6.7	6.14	Pass
07-03	134.0	122.32	91.28	6.7	7.69	Pass
07-04	134.0	121.35	90.56	6.7	4.56	Pass
07-05	134.0	115.33	86.07	6.7	6.79	Fail
07-06	134.0	127.45	95.11	6.7	8.42	Pass
07-07	144.5	134.62	93.16	6.2	4.07	Pass
08-01	144.5	138.16	95.61	6.2	4.51	Pass
08-02	144.5	133.05	92.07	6.2	5.10	Pass
08-03	144.5	141.62	98.00	6.2	2.87	Pass
08-04	134.0	123.55	92.20	6.7	6.47	Pass

Discussions:

Name	Topic
Halme; H&A	H&A spoke with Casey of Halme regarding sampling units that have been over excavated the prior week. Units on the northeastern side of the excavation site that received failing confirmation samples were over excavated the week prior.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	40
Location	19615 E Sprague Ave., Spokane Valley, WA 99016	**Date**	13 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-32°F

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	9.25 hours	1.75 hours	11.00 hours
Garrett Jones	9.50 hours	0.50 hours	10.00 hours

Distribution:
CVSD; Attn: Jay Rowell,
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan
Attachment D – Confirmation Sampling Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_13_25_CAL_DFR_40/01-13-25 DFR.docx



Photo 1. Over excavation progress of the northeast sampling units (view looking northeast).



Photo 2. Over excavation progress of the northeast sampling units (view looking northeast).

Site Photographs – 13 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Over excavation progress of the northeast sampling units (view looking southeast).

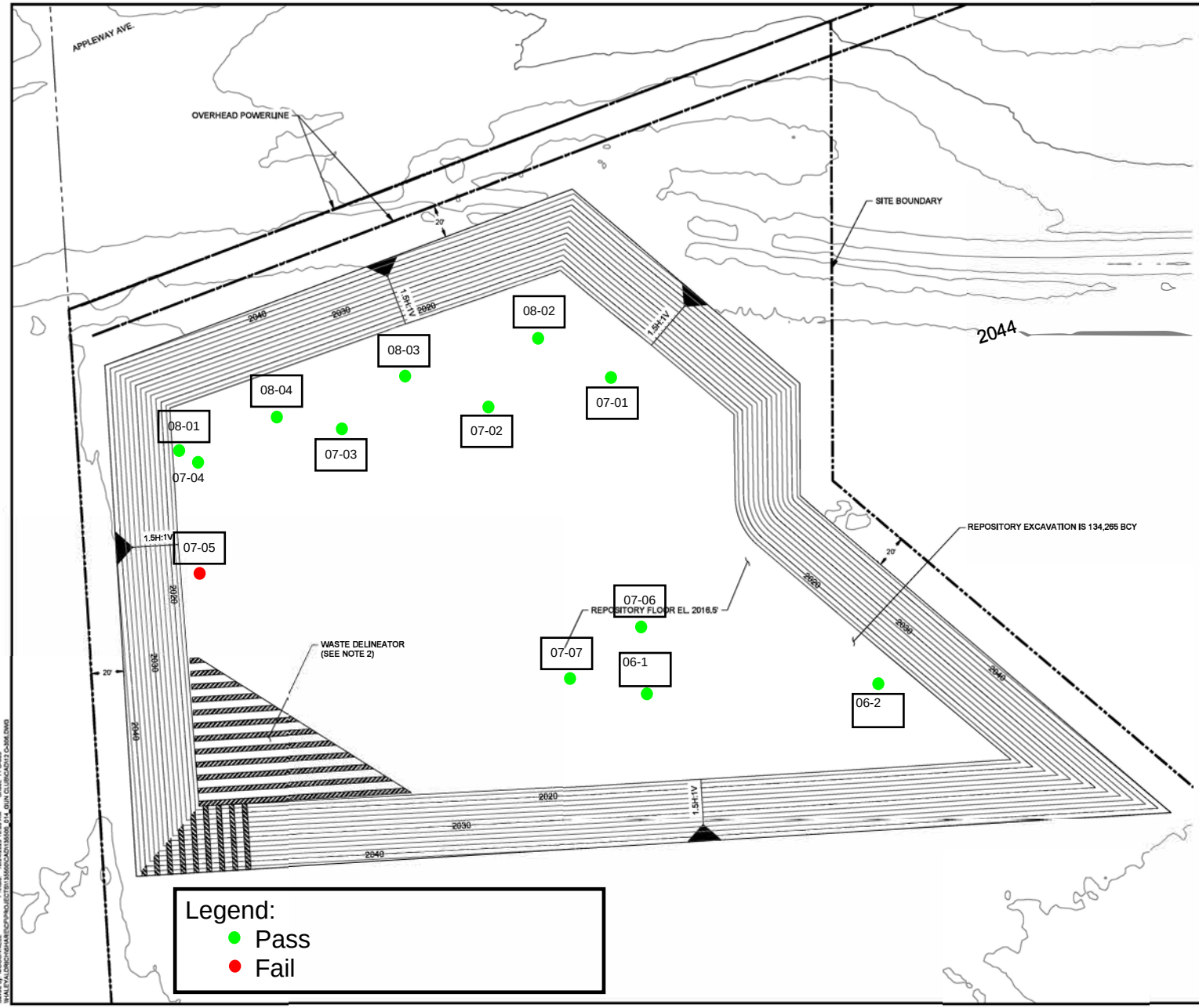


Photo 4. Over excavation progress of the northeast sampling units (view looking southeast).

Site Photographs – 13 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/13/2025 18:30	1/13/2025 18:40	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	1/13/2025 18:20	1/13/2025 18:30	0.001	0.001	0.001	0.001	0.001	0.003
Modem 49913	1/13/2025 18:10	1/13/2025 18:20	0.004	0.004	0.004	0.005	0.005	0.005
Modem 49913	1/13/2025 18:00	1/13/2025 18:10	0.003	0.003	0.003	0.003	0.003	0.004
Modem 49913	1/13/2025 17:50	1/13/2025 18:00	0.014	0.014	0.014	0.014	0.014	0.009
Modem 49913	1/13/2025 17:40	1/13/2025 17:50	0.002	0.002	0.002	0.003	0.003	0.004
Modem 49913	1/13/2025 17:30	1/13/2025 17:40	0.003	0.003	0.003	0.003	0.003	0.004
Modem 49913	1/13/2025 17:20	1/13/2025 17:30	0.002	0.002	0.002	0.002	0.002	0.004
Modem 49913	1/13/2025 17:10	1/13/2025 17:20	0.002	0.002	0.002	0.002	0.002	0.004
Modem 49913	1/13/2025 17:00	1/13/2025 17:10	0.002	0.002	0.002	0.003	0.003	0.005
Modem 49913	1/13/2025 16:50	1/13/2025 17:00	0.003	0.003	0.003	0.003	0.003	0.005
Modem 49913	1/13/2025 16:40	1/13/2025 16:50	0.004	0.004	0.004	0.004	0.004	0.005
Modem 49913	1/13/2025 16:30	1/13/2025 16:40	0.004	0.004	0.004	0.004	0.004	0.005
Modem 49913	1/13/2025 16:20	1/13/2025 16:30	0.004	0.004	0.004	0.004	0.004	0.005
Modem 49913	1/13/2025 16:10	1/13/2025 16:20	0.004	0.004	0.004	0.004	0.004	0.004
Modem 49913	1/13/2025 16:00	1/13/2025 16:10	0.004	0.004	0.004	0.004	0.004	0.004
Modem 49913	1/13/2025 15:50	1/13/2025 16:00	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	1/13/2025 15:40	1/13/2025 15:50	0.004	0.005	0.005	0.005	0.005	0.004
Modem 49913	1/13/2025 15:30	1/13/2025 15:40	0.005	0.005	0.005	0.005	0.005	0.004
Modem 49913	1/13/2025 15:20	1/13/2025 15:30	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/13/2025 15:10	1/13/2025 15:20	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/13/2025 15:00	1/13/2025 15:10	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/13/2025 14:50	1/13/2025 15:00	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/13/2025 14:40	1/13/2025 14:50	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	1/13/2025 14:30	1/13/2025 14:40	0.005	0.005	0.005	0.005	0.005	0.005
Modem 49913	1/13/2025 14:20	1/13/2025 14:30	0.005	0.005	0.005	0.005	0.005	0.005
Modem 49913	1/13/2025 14:10	1/13/2025 14:20	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	1/13/2025 14:00	1/13/2025 14:10	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	1/13/2025 13:50	1/13/2025 14:00	0.007	0.007	0.007	0.007	0.007	0.010
Modem 49913	1/13/2025 13:40	1/13/2025 13:50	0.003	0.003	0.003	0.003	0.003	0.007
Modem 49913	1/13/2025 13:30	1/13/2025 13:40	0.003	0.003	0.003	0.003	0.003	0.010
Modem 49913	1/13/2025 13:20	1/13/2025 13:30	0.003	0.003	0.004	0.004	0.004	0.006
Modem 49913	1/13/2025 13:10	1/13/2025 13:20	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	1/13/2025 13:00	1/13/2025 13:10	0.004	0.004	0.004	0.004	0.004	0.007
Modem 49913	1/13/2025 12:50	1/13/2025 13:00	0.004	0.004	0.004	0.004	0.004	0.008
Modem 49913	1/13/2025 12:40	1/13/2025 12:50	0.004	0.004	0.004	0.004	0.004	0.013
Modem 49913	1/13/2025 12:30	1/13/2025 12:40	0.005	0.005	0.005	0.005	0.005	0.005
Modem 49913	1/13/2025 12:20	1/13/2025 12:30	0.005	0.005	0.005	0.005	0.005	
Modem 49913	1/13/2025 12:10	1/13/2025 12:20	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/13/2025 12:00	1/13/2025 12:10	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/13/2025 11:50	1/13/2025 12:00	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/13/2025 11:40	1/13/2025 11:50	0.009	0.009	0.01	0.01	0.01	
Modem 49913	1/13/2025 11:30	1/13/2025 11:40	0.016	0.016	0.016	0.016	0.016	
Modem 49913	1/13/2025 11:20	1/13/2025 11:30	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/13/2025 11:10	1/13/2025 11:20	0.008	0.008	0.008	0.008	0.008	
Modem 49913	1/13/2025 11:00	1/13/2025 11:10	0.009	0.009	0.009	0.009	0.009	
Modem 49913	1/13/2025 10:50	1/13/2025 11:00	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/13/2025 10:40	1/13/2025 10:50	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/13/2025 10:30	1/13/2025 10:40	0.003	0.004	0.004	0.004	0.004	



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12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZSMO
Designed By:	BD
Checked By:	KH
Approved By:	JHKH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/16/23
0	ISSUED FOR BID	BD	10/16/23

CVSD GUN CLUB
CLEANUP PROJECT

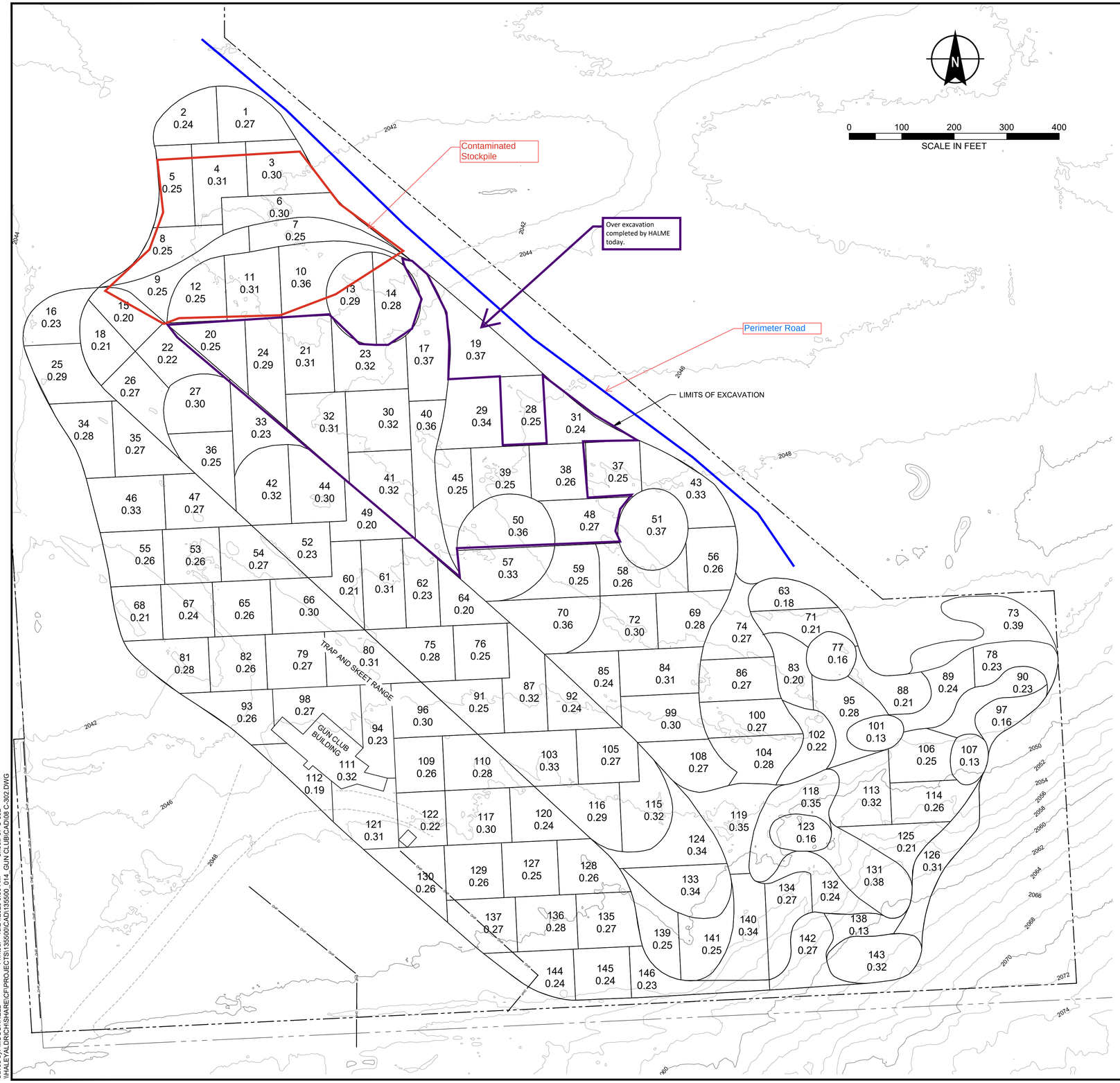
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY
SUBGRADE
EXCAVATION PLAN

C-306

Sheet: 11 of 21

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Sheet: 11 C-306
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NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
13 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
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CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	41
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	14 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-35°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Over excavation of the southwest quadrant was completed today. Haley & Aldrich, Inc. (H&A) inspected over excavated units to ensure units didn't have visible indicators of contamination. Visual inspection results include:

- Sample Units 66 and 65 have a darker base soil, but do not have visual indicators of contamination;
- Sample Units 54 and 47 had patches or stripes of what looked to be contaminated soil, but generally looks acceptable.
- The northern corner of Units 55 and 53 will need further excavation.

These areas listed for further excavation showed areas of black soil. Units not listed within this description did not have visual indicators of contamination. Halme over excavated the listed areas before the end of excavation today. This excavated soil was then deposited into the repository.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Lift No. 8 passed compaction testing and completely backfilled. Lift No. 9 compaction testing and backfilling was not completed by the end of operations today. H&A observed that four passes with a sheep's foot CAT roller created passing compaction values. This CAT roller would then use its blade to create a flat area for H&A to compaction test. A minimum of one compaction test was conducted per every 5,000 square feet within the repository to verify that relative compaction meets or exceeds 90% of the maximum dry density.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind, and Unit 47181 was upwind. It was noted today that the relative humidity in the morning was approximately 91% and the wind direction was west to east.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today. Humidity is believed to have been a factor in these occurrences where the rolling average was exceeded. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and residual snowfall. Upwind monitor 47181 appears to be malfunctioning. H&A is working to trouble shoot this issue. Dust data is attached.

III. BACKFILL AND COMPACTION TESTING

H&A representative Garrett Jones observed backfilling and compacting in the northwest pit. The material for backfilling consisted of silty sand with gravel. The H&A representative evaluated the top of each lift using a soil density gauge. Test results are shown below in Table 1. The material was placed in lifts of generally 18-inch thickness. Each lift was compacted with the CAT 825C Compactor, using 10 or more passes, to have the required

minimum density for the density tests performed (See Table 1). Test Number **08-6 and 08-10** failed the density tests. The H&A representative informed the subcontractor to add more passes with the compactor. After adding more passes the H&A representative confirmed that the soil was firm and unyielding. Based on the observations, backfill and compaction was completed in general accordance with the plans and specifications.

Table 1. Density Testing Summary

Test No. (Lift/#)	Maximum Dry Density (pcf)	Field Dry Density (pcf)	Field Density Percentage (%)	Optimum Moisture Content (%)	Field Moisture Content (%)	Pass/Fail?
8-1	134.0	131.32	98.00	6.7	5.25	Pass
8-2	134.0	124.56	92.96	6.7	4.16	Pass
8-3	144.5	135.03	93.45	6.5	4.55	Pass
8-4	134.0	128.02	95.54	6.7	5.70	Pass
8-5	134.0	124.29	92.75	6.7	3.81	Pass
8-6	134.0	118.76	88.63	6.7	4.38	Fail
8-7	134.0	121.17	90.43	6.7	6.43	Pass
8-8	134.0	100.78	75.21	6.7	4.07	Pass
8-9	134.0	106.05	79.14	6.7	3.35	Pass
8-10	134.0	111.15	82.95	6.7	4.58	Fail
8-11	134.0	129.36	96.54	6.7	3.52	Pass
9-1	134.0	132.12	98.60	6.7	3.32	Pass

IV. CONFIRMATION SAMPLING:

Confirmation samples collected today were shipped today via UPS.

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
C_17_3	1-14-25	10:30	CPAHs, Pb
C_40_3	1-14-25	12:60	CPAHs, Pb
C_23_3	1-14-25	10:00	CPAHs, Pb, As
C_30_3	1-14-25	12:00	CPAHs, Pb, As
C_45_3	1-14-25	14:10	CPAHs, Pb, As
C_29_3	1-14-25	11:30	CPAHs, Pb, As
C_21_3	1-14-25	09:30	cPAHs
C_32_3	1-14-25	13:00	CPAHs, Pb
C_41_3	1-14-25	13:45	CPAHs, Pb

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	41
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	14 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-35°F

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with Jake of Halme about passing and failing units and backfill means and methods of compaction.

ATTACHMENTS:
Attachment A – Photo Log
Attachment B – Dust Monitoring Data
Attachment C – Repository markup
Attachment D -- 302 Markup
Attachment E -- COC

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.50 hours	2.00 hours	11.50 hours
Garrett Jones	9.50 hours	0.50 hours	10.00 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan
Attachment D – Confirmation Sampling Plan
Attachment E – Chain of Custody



Haley & Aldrich, Inc.



Photo 1. Backfill progress of the east side of the repository (view looking north).



Photo 2. Backfill progress of the repository (view looking west).

Site Photographs – 14 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Over excavation progress (view looking northwest).

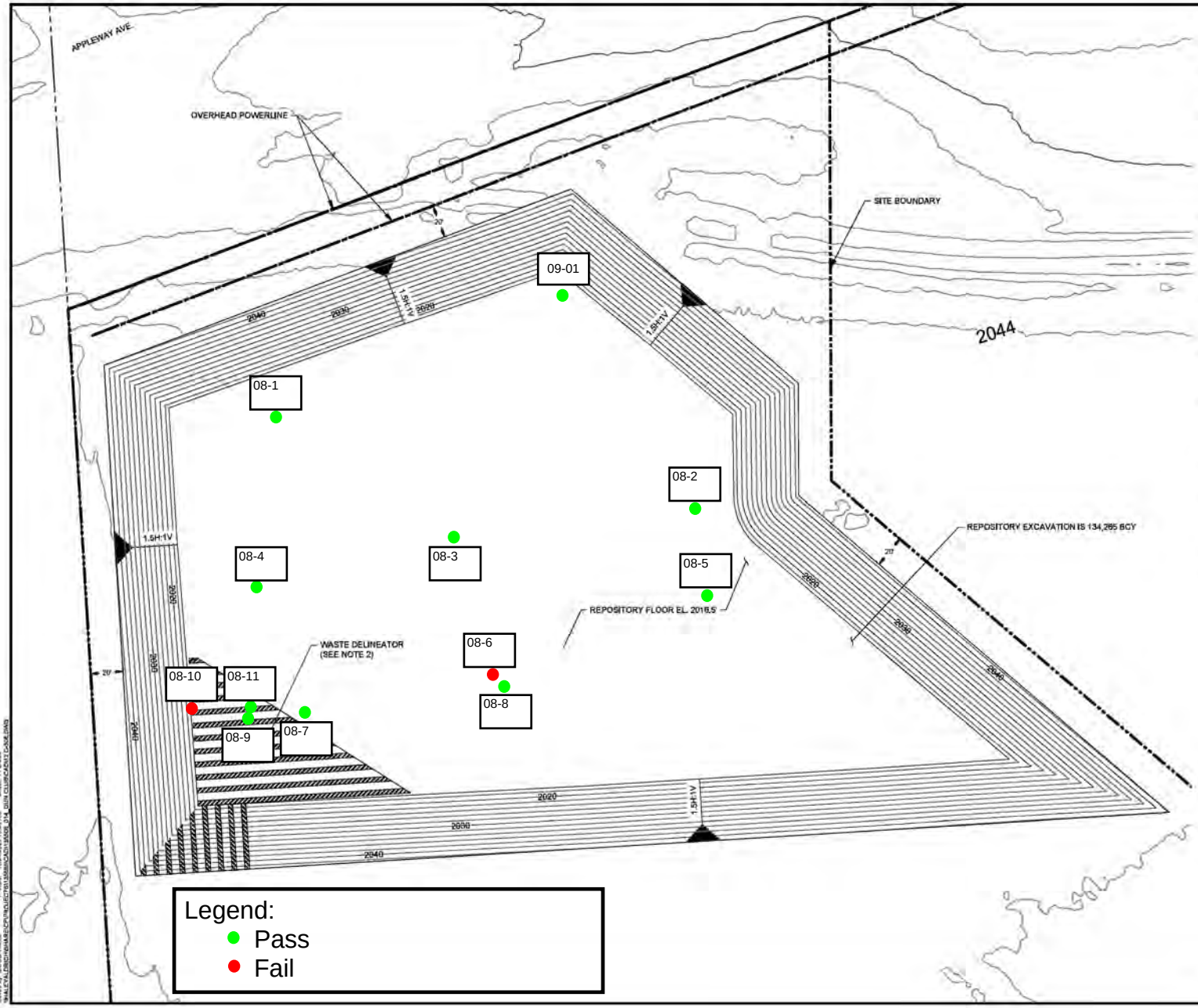


Photo 4. Over excavation progress (view looking southwest).

Site Photographs – 14 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/14/2025 18:30	1/14/2025 18:40	0.006	0.006	0.006	0.006	0.006	0.0095
Modem 49913	1/14/2025 18:20	1/14/2025 18:30	0.006	0.006	0.006	0.007	0.007	0.0095
Modem 49913	1/14/2025 18:10	1/14/2025 18:20	0.007	0.007	0.007	0.008	0.008	0.0095
Modem 49913	1/14/2025 18:00	1/14/2025 18:10	0.005	0.005	0.005	0.006	0.006	0.0085
Modem 49913	1/14/2025 17:50	1/14/2025 18:00	0.004	0.004	0.004	0.005	0.005	0.0095
Modem 49913	1/14/2025 17:40	1/14/2025 17:50	0.004	0.004	0.004	0.005	0.005	0.011
Modem 49913	1/14/2025 17:30	1/14/2025 17:40	0.005	0.005	0.005	0.006	0.006	0.0125
Modem 49913	1/14/2025 17:20	1/14/2025 17:30	0.006	0.007	0.007	0.007	0.007	0.0125
Modem 49913	1/14/2025 17:10	1/14/2025 17:20	0.006	0.007	0.007	0.007	0.007	0.0125
Modem 49913	1/14/2025 17:00	1/14/2025 17:10	0.009	0.009	0.009	0.01	0.01	0.0145
Modem 49913	1/14/2025 16:50	1/14/2025 17:00	0.008	0.008	0.008	0.008	0.008	0.014
Modem 49913	1/14/2025 16:40	1/14/2025 16:50	0.01	0.01	0.01	0.011	0.011	0.0165
Modem 49913	1/14/2025 16:30	1/14/2025 16:40	0.012	0.012	0.012	0.013	0.013	0.018
Modem 49913	1/14/2025 16:20	1/14/2025 16:30	0.012	0.012	0.012	0.012	0.012	0.0175
Modem 49913	1/14/2025 16:10	1/14/2025 16:20	0.011	0.011	0.011	0.011	0.011	0.0165
Modem 49913	1/14/2025 16:00	1/14/2025 16:10	0.01	0.011	0.011	0.011	0.011	0.018
Modem 49913	1/14/2025 15:50	1/14/2025 16:00	0.014	0.014	0.014	0.014	0.014	0.019
Modem 49913	1/14/2025 15:40	1/14/2025 15:50	0.017	0.017	0.017	0.017	0.017	0.0195
Modem 49913	1/14/2025 15:30	1/14/2025 15:40	0.018	0.018	0.018	0.019	0.019	0.0215
Modem 49913	1/14/2025 15:20	1/14/2025 15:30	0.017	0.018	0.018	0.018	0.018	0.022
Modem 49913	1/14/2025 15:10	1/14/2025 15:20	0.017	0.017	0.018	0.018	0.018	0.0195
Modem 49913	1/14/2025 15:00	1/14/2025 15:10	0.018	0.018	0.018	0.019	0.019	0.0205
Modem 49913	1/14/2025 14:50	1/14/2025 15:00	0.02	0.02	0.02	0.02	0.02	0.022
Modem 49913	1/14/2025 14:40	1/14/2025 14:50	0.022	0.022	0.022	0.022	0.022	0.022
Modem 49913	1/14/2025 14:30	1/14/2025 14:40	0.022	0.022	0.023	0.023	0.023	0.0275
Modem 49913	1/14/2025 14:20	1/14/2025 14:30	0.022	0.022	0.022	0.023	0.023	0.027
Modem 49913	1/14/2025 14:10	1/14/2025 14:20	0.021	0.021	0.021	0.022	0.022	0.025
Modem 49913	1/14/2025 14:00	1/14/2025 14:10	0.024	0.025	0.025	0.025	0.025	0.027
Modem 49913	1/14/2025 13:50	1/14/2025 14:00	0.023	0.023	0.024	0.024	0.024	0.026
Modem 49913	1/14/2025 13:40	1/14/2025 13:50	0.021	0.022	0.022	0.022	0.022	0.0245
Modem 49913	1/14/2025 13:30	1/14/2025 13:40	0.024	0.024	0.024	0.024	0.024	0.026
Modem 49913	1/14/2025 13:20	1/14/2025 13:30	0.025	0.026	0.026	0.026	0.026	0.0245
Modem 49913	1/14/2025 13:10	1/14/2025 13:20	0.021	0.021	0.021	0.021	0.021	0.0215
Modem 49913	1/14/2025 13:00	1/14/2025 13:10	0.021	0.021	0.022	0.022	0.022	0.0215
Modem 49913	1/14/2025 12:50	1/14/2025 13:00	0.024	0.024	0.024	0.024	0.024	0.0225
Modem 49913	1/14/2025 12:40	1/14/2025 12:50	0.022	0.022	0.022	0.022	0.022	0.0215
Modem 49913	1/14/2025 12:30	1/14/2025 12:40	0.031	0.031	0.032	0.032	0.032	0.031
Modem 49913	1/14/2025 12:20	1/14/2025 12:30	0.03	0.03	0.03	0.031	0.031	0.028
Modem 49913	1/14/2025 12:10	1/14/2025 12:20	0.028	0.028	0.028	0.028	0.028	0.03
Modem 49913	1/14/2025 12:00	1/14/2025 12:10	0.029	0.029	0.029	0.029	0.029	
Modem 49913	1/14/2025 11:50	1/14/2025 12:00	0.027	0.028	0.028	0.028	0.028	
Modem 49913	1/14/2025 11:40	1/14/2025 11:50	0.026	0.027	0.027	0.027	0.027	
Modem 49913	1/14/2025 11:30	1/14/2025 11:40	0.028	0.028	0.028	0.028	0.028	
Modem 49913	1/14/2025 11:20	1/14/2025 11:30	0.023	0.023	0.023	0.023	0.023	
Modem 49913	1/14/2025 11:10	1/14/2025 11:20	0.022	0.022	0.022	0.022	0.022	
Modem 49913	1/14/2025 11:00	1/14/2025 11:10	0.02	0.02	0.02	0.021	0.021	
Modem 49913	1/14/2025 10:50	1/14/2025 11:00	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/14/2025 10:40	1/14/2025 10:50	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/14/2025 10:30	1/14/2025 10:40	0.03	0.03	0.03	0.03	0.03	
Modem 49913	1/14/2025 10:20	1/14/2025 10:30	0.024	0.025	0.025	0.025	0.025	
Modem 49913	1/14/2025 10:10	1/14/2025 10:20	0.031	0.032	0.032	0.032	0.032	



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED; REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES) SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED). SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
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Designed By:	BD
Checked By:	KH
Approval By:	JHAH
Stamp:	

No.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/14/23
0	ISSUED FOR IBR	BD	10/18/23

CVSD GUN CLUB CLEANUP PROJECT

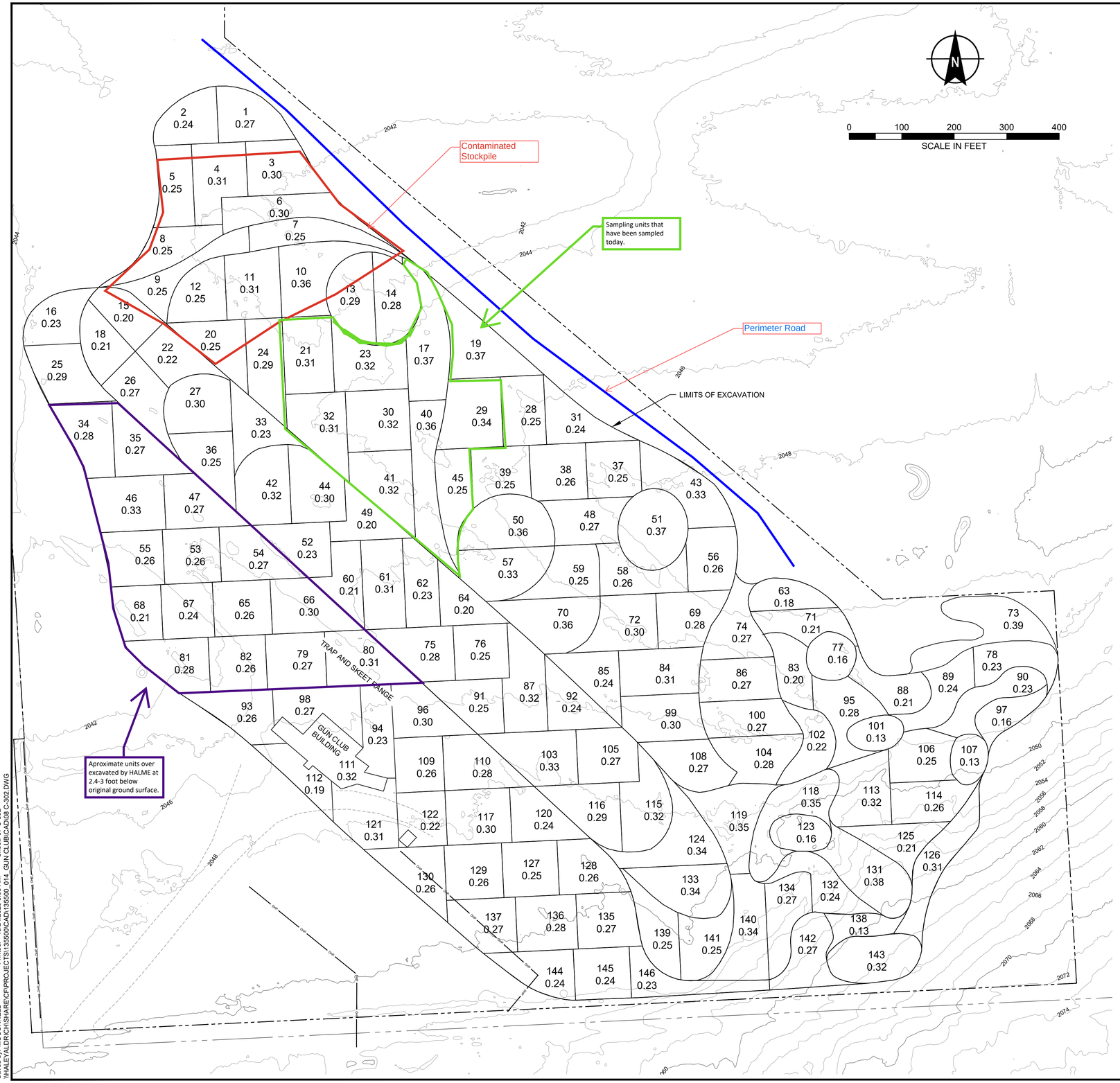
19615 E. SPRAGUE AVE. #9650
SPOKANE VALLEY, WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: WOODWELL
Plotted: 10/24/2023 10:00 AM Sheet: 11 Code
I:\HALEYALDRICH\SHARED\CPK\PROJECTS\202349_CVSD_GUN CLUB\CAD\ET CAD\E.DWG



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
14 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
\\HALEYALDRICH\SHARE\CF\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Report To Breeyn Greer
Company Haley+ Aldrich
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*) Cam L.
PROJECT NAME: CVSD Gun Club
PO #: 0202349-002
REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No
INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TSM processing	cPAHs project specific list	ABEPA 6020	As EPA 6020			Notes
C_17_3		1-14-25	10:30	Soil	1							X	X	X				project specific list
C_40_3			12:30									X	X	X				
C_23_3			10:00									X	X	X	X			
C_30_3			12:00									X	X	X	X			
C_45_3			14:10									X	X	X	X			
C_29_3			11:30									X	X	X	X			
C_21_3			9:30									X	X					
C_32_3			13:00									X	X	X				
C_41_3			13:45									X	X	X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Cameron Luckey	Haley+Aldrich	1-14-25	15:30
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	42
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	15 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-33°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme started the over excavation of units starting at approximate Sampling Unit 109 and worked south. This contaminated material was pushed to the center haul road then loaded into haul trucks and deposited directly into the repository.

b. UST Discovery: Halme uncovered an underground storage tank (UST) in Sampling Unit 111. The UST was punctured, resulting in a limited amount of petroleum product stored inside spilling into the localized depression. The UST was approximately 99% empty by the time Haley & Aldrich (H&A) inspected this tank. H&A representative Breeyn Greer was on-Site in the afternoon to inspect the UST. Fluid spilled from the tank smelled like diesel. Pictures of the tank are attached within today's Photolog. Excavation markup attached showing the location of this tank, as well as Units sampled today and Units over excavated today.

c. Repository Excavation: No repository excavation was conducted today.

d. Backfill: Lift No. 8 passed compaction testing and completely backfilled. Lift No. 9 compaction testing and backfilling was not completed by the end of the day.

II. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was downwind. Upwind monitor 47181 appears to be malfunctioning. H&A is working to troubleshoot this issue. It was noted today that the relative humidity in the morning was approximately 91% and the wind direction was west to east.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today for one 120-minute average. Humidity is believed to have been a factor in these occurrences where the rolling average was exceeded. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and residual snowfall. Dust data attached.

III. BACKFILL AND COMPACTION TESTING:

H&A observed that four passes with a sheep's foot CAT roller resulted in passing compaction test values. This CAT roller would then use its blade to create a flat area for H&A to compaction test. A minimum of one compaction test was conducted per every 5,000 square feet within the repository to verify that compaction has achieved a minimum of 90% of maximum dry density.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	42
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	15 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-33°F

H&A representative Garrett Jones observed backfilling and compacting in the northwest pit. The material for backfilling consisted of silty sand with gravel. H&A evaluated the top of each lift using a soil density gauge. Test results are shown below in Table 1. The material was placed in lifts of generally 18-inch thickness. Each lift was compacted with the CAT 825C Compactor, using 10 or more passes, to have the required minimum density for the density tests performed (see Table 1). Test Numbers **09-01, 09-02, 09-03, 09-06, 09-14, 09-15 10-02, and 10-03,** failed the density tests. The H&A representative informed the subcontractor to add more passes with the compactor. After adding more passes the H&A representative confirmed that the soil was firm and unyielding. Based on the observations, backfill and compaction was completed in general accordance with the plans and specifications.

Table 1. Density Testing Summary

Test No. (Lift/#)	Maximum Dry Density (pcf)	Field Dry Density (pcf)	Field Density Percentage (%)	Optimum Moisture Content (%)	Field Moisture Content (%)	Pass/Fail?
9-1	134.0	107.15	79.96	6.7	9.00	Fail
9-2	134.0	110.28	82.30	6.7	4.51	Fail
9-3	144.5	112.20	77.65	6.5	4.22	Fail
9-4	134.0	122.42	91.36	6.7	6.45	Pass
9-5	134.0	121.26	90.49	6.7	4.33	Pass
9-6	134.0	119.80	89.40	6.7	3.64	Fail
9-7	144.5	132.88	91.96	6.5	4.58	Pass
9-8	134.0	123.76	92.36	6.7	2.79	Pass
9-9	134.0	128.97	96.25	6.7	8.23	Pass
9-10	134.0	129.75	96.83	6.7	8.74	Pass
10-1	134.0	125.00	93.28	6.7	3.96	Pass
10-2	134.0	118.64	88.54	6.7	3.87	Fail
10-3	134.0	116.94	87.27	6.7	4.57	Fail
9-11	144.5	137.31	95.02	6.5	8.18	Pass
9-12	134.0	122.40	91.34	6.7	10.38	Pass
9-13	134.0	125.72	93.82	6.7	8.57	Pass
9-14	134.0	119.20	88.96	6.7	8.91	Fail
9-15	134.0	117.94	88.01	6.7	9.43	Fail

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	42
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	15 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	28-33°F

IV. CONFIRMATION SAMPLING:

Confirmation samples collected today were shipped today via UPS.

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
C_20_3	01-15-2025	08:45	cPAHs, Pb
C_24_3	01-15-2025	09:00	cPAHs
C_31_3	01-15-2025	09:30	Pb
C_38_3	01-15-2025	10:00	CPAHs, Pb
C_39_3	01-15-2025	11:30	CPAHs, Pb
C_50_3	01-15-2025	12:00	cPAHs
C_48_3	01-15-2025	12:20	CPAHs, Pb

Discussions:

Name	Topic
Halme; H&A	H&A spoke with Jake of Halme about the uncovered UST. The tank was moved out of the ground by the blade of the excavator used to over excavate units.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	9.10 hours	0.90 hours	10.00 hours
Garrett Jones	9.50 hours	0.50 hours	10.00 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan
Attachment D – Confirmation Sampling Plan
Attachment E – Chain of Custody Record



Haley & Aldrich, Inc.



Photo 1. Underground storage tank exposed by Halme Construction, Inc. (Halme; view looking south).



Photo 2. Underground storage tank exposed by Halme (view looking east).

Site Photographs – 15 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Underground storage tank exposed by Halme (view looking east).



Photo 4.Underground storage tank exposed by Halme (view looking north).

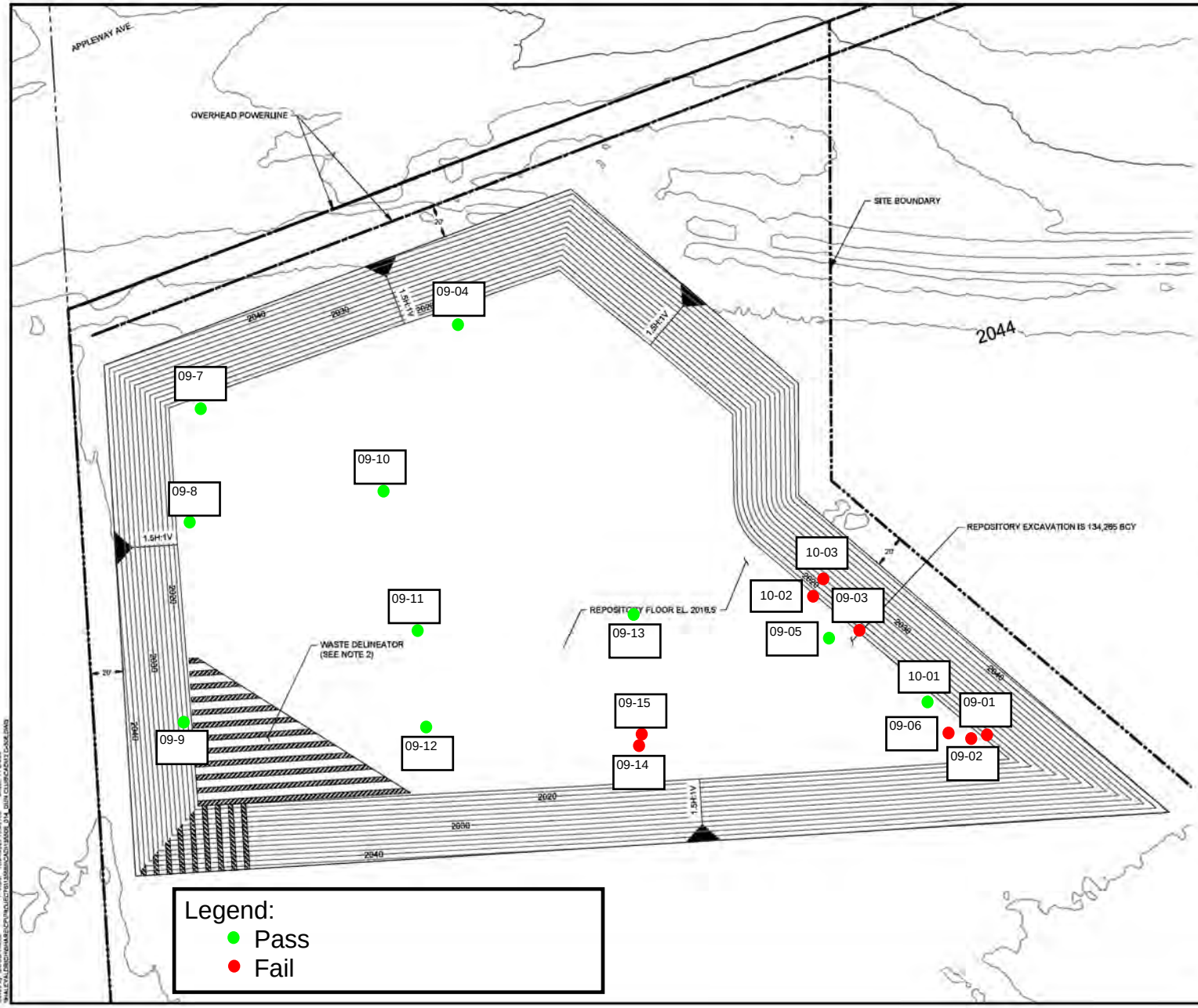
Site Photographs – 15 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Downwind								
Modem 49913	1/15/2025 18:40	1/15/2025 18:50	0.014	0.014	0.014	0.015	0.015	0.017
Modem 49913	1/15/2025 18:30	1/15/2025 18:40	0.013	0.013	0.014	0.014	0.014	0.017
Modem 49913	1/15/2025 18:20	1/15/2025 18:30	0.013	0.013	0.013	0.013	0.013	0.018
Modem 49913	1/15/2025 18:10	1/15/2025 18:20	0.012	0.013	0.013	0.013	0.013	0.015
Modem 49913	1/15/2025 18:00	1/15/2025 18:10	0.012	0.012	0.012	0.012	0.012	0.013
Modem 49913	1/15/2025 17:50	1/15/2025 18:00	0.013	0.013	0.013	0.013	0.013	0.014
Modem 49913	1/15/2025 17:40	1/15/2025 17:50	0.012	0.013	0.013	0.013	0.013	0.014
Modem 49913	1/15/2025 17:30	1/15/2025 17:40	0.013	0.013	0.013	0.013	0.013	0.015
Modem 49913	1/15/2025 17:20	1/15/2025 17:30	0.011	0.012	0.012	0.012	0.012	0.015
Modem 49913	1/15/2025 17:10	1/15/2025 17:20	0.013	0.013	0.013	0.013	0.013	0.016
Modem 49913	1/15/2025 17:00	1/15/2025 17:10	0.011	0.011	0.011	0.012	0.012	0.016
Modem 49913	1/15/2025 16:50	1/15/2025 17:00	0.016	0.016	0.017	0.017	0.017	0.018
Modem 49913	1/15/2025 16:40	1/15/2025 16:50	0.018	0.019	0.019	0.019	0.019	0.018
Modem 49913	1/15/2025 16:30	1/15/2025 16:40	0.019	0.019	0.019	0.019	0.019	0.020
Modem 49913	1/15/2025 16:20	1/15/2025 16:30	0.02	0.02	0.021	0.022	0.022	0.021
Modem 49913	1/15/2025 16:10	1/15/2025 16:20	0.016	0.016	0.016	0.017	0.017	0.017
Modem 49913	1/15/2025 16:00	1/15/2025 16:10	0.014	0.014	0.014	0.014	0.014	0.015
Modem 49913	1/15/2025 15:50	1/15/2025 16:00	0.014	0.014	0.014	0.014	0.014	0.014
Modem 49913	1/15/2025 15:40	1/15/2025 15:50	0.014	0.014	0.014	0.014	0.014	0.015
Modem 49913	1/15/2025 15:30	1/15/2025 15:40	0.015	0.015	0.015	0.016	0.016	0.018
Modem 49913	1/15/2025 15:20	1/15/2025 15:30	0.017	0.017	0.017	0.017	0.017	0.016
Modem 49913	1/15/2025 15:10	1/15/2025 15:20	0.018	0.018	0.018	0.018	0.018	0.016
Modem 49913	1/15/2025 15:00	1/15/2025 15:10	0.018	0.018	0.018	0.019	0.019	0.018
Modem 49913	1/15/2025 14:50	1/15/2025 15:00	0.017	0.018	0.018	0.018	0.018	0.017
Modem 49913	1/15/2025 14:40	1/15/2025 14:50	0.017	0.017	0.017	0.017	0.017	0.016
Modem 49913	1/15/2025 14:30	1/15/2025 14:40	0.02	0.02	0.02	0.02	0.02	0.018
Modem 49913	1/15/2025 14:20	1/15/2025 14:30	0.019	0.019	0.019	0.019	0.019	0.017
Modem 49913	1/15/2025 14:10	1/15/2025 14:20	0.016	0.016	0.016	0.016	0.016	0.015
Modem 49913	1/15/2025 14:00	1/15/2025 14:10	0.016	0.016	0.016	0.016	0.016	0.017
Modem 49913	1/15/2025 13:50	1/15/2025 14:00	0.014	0.014	0.014	0.014	0.014	0.015
Modem 49913	1/15/2025 13:40	1/15/2025 13:50	0.015	0.016	0.016	0.016	0.016	0.016
Modem 49913	1/15/2025 13:30	1/15/2025 13:40	0.018	0.018	0.018	0.019	0.019	0.020
Modem 49913	1/15/2025 13:20	1/15/2025 13:30	0.014	0.014	0.014	0.014	0.014	0.019
Modem 49913	1/15/2025 13:10	1/15/2025 13:20	0.014	0.014	0.014	0.014	0.014	0.020
Modem 49913	1/15/2025 13:00	1/15/2025 13:10	0.016	0.016	0.016	0.016	0.016	0.018
Modem 49913	1/15/2025 12:50	1/15/2025 13:00	0.015	0.015	0.015	0.015	0.015	0.021
Modem 49913	1/15/2025 12:40	1/15/2025 12:50	0.015	0.015	0.015	0.015	0.015	0.023
Modem 49913	1/15/2025 12:30	1/15/2025 12:40	0.015	0.015	0.015	0.015	0.015	0.029
Modem 49913	1/15/2025 12:20	1/15/2025 12:30	0.014	0.014	0.014	0.014	0.014	0.012
Modem 49913	1/15/2025 12:10	1/15/2025 12:20	0.014	0.014	0.014	0.014	0.014	0.012
Modem 49913	1/15/2025 12:00	1/15/2025 12:10	0.017	0.017	0.017	0.017	0.017	0.014
Modem 49913	1/15/2025 11:50	1/15/2025 12:00	0.016	0.016	0.016	0.016	0.016	
Modem 49913	1/15/2025 11:40	1/15/2025 11:50	0.016	0.016	0.016	0.016	0.016	
Modem 49913	1/15/2025 11:30	1/15/2025 11:40	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/15/2025 11:20	1/15/2025 11:30	0.024	0.024	0.024	0.024	0.024	
Modem 49913	1/15/2025 11:10	1/15/2025 11:20	0.025	0.026	0.026	0.026	0.026	
Modem 49913	1/15/2025 11:00	1/15/2025 11:10	0.019	0.019	0.019	0.019	0.019	

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Modem 49913	1/15/2025 10:50	1/15/2025 11:00	0.026	0.026	0.026	0.027	0.027	
Modem 49913	1/15/2025 10:40	1/15/2025 10:50	0.03	0.031	0.031	0.031	0.031	
Modem 49913	1/15/2025 10:30	1/15/2025 10:40	0.042	0.042	0.042	0.042	0.042	
Modem 49913	1/15/2025 10:20	1/15/2025 10:30	0.008	0.008	0.009	0.01	0.01	
Modem 49913	1/15/2025 10:10	1/15/2025 10:20	0.008	0.008	0.009	0.01	0.01	
Modem 49913	1/15/2025 10:00	1/15/2025 10:10	0.008	0.008	0.009	0.01	0.01	



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED; REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES) SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.959.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZSMO
Designed By:	BD
Checked By:	KH
Approval By:	JHAH
Stamp:	

No.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/14/23
0	ISSUED FOR IBI	BD	10/18/23

CVSD GUN CLUB CLEANUP PROJECT

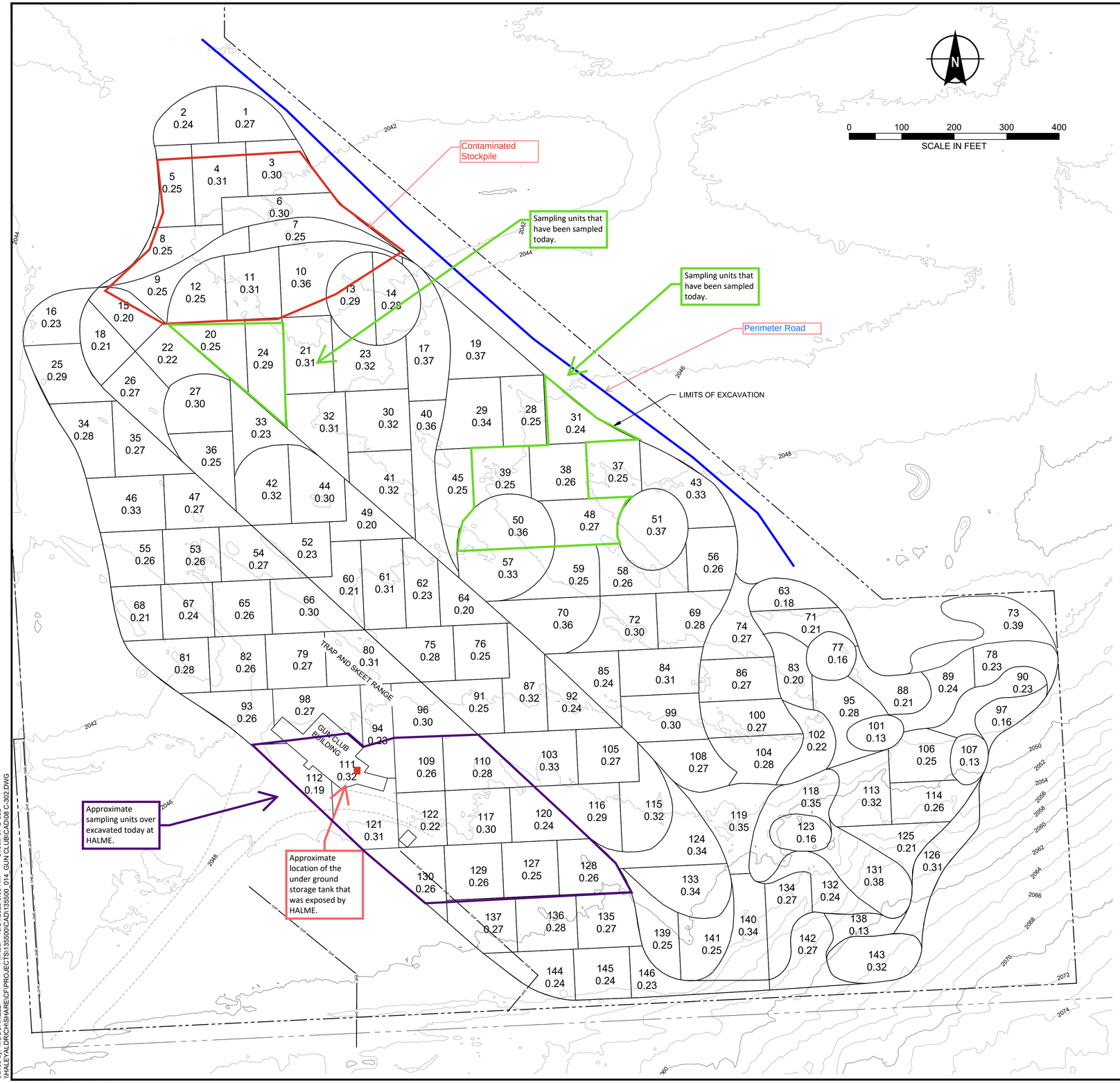
19615 E. SPRAGUE AVE. #9650
SPOKANE VALLEY, WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Plotted: 10/24/2023 10:00 AM Sheet: 11 Code
Saved by: MOORHELL
S:\HALEYALDRICH\SHARED\PROJECTS\202349_GUN CLUB\CAD\GT CAD\E.DWG



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
15 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

Eurofins Environmental Testing Northwest, LLC
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Cam Luckey	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Breeyn Greer	Phone: 612-232-7343	E-Mail:	State of Origin:	Page: Page 1 of 1
Company: Haley + Aldrich	PWSID:	Analysis Requested		Job #:

Address: 505 w Riverside ave STE 450	Due Date Requested:	Preservation Codes:
City: Spokane	TAT Requested (days): STD	A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: Wa 99201	Compliance Project: Δ Yes Δ No	
Phone: 612-232-7343	PO #: Purchase Order not required	
Email: bgreer@HaleyAldrich.com	WO #:	
Project Name: CVSD Gun club	Project #: 0202349	
Site: 0202349 CVSD	SSOW#:	Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ISM Processing	cPAHs project specific list	Pb EPA 6020	As EPA 6020														Total Number of containers	Special Instructions/Note:
			Preservation Code:																						
C_20_3	1-15-25	8:45	G	Soil			X	X	X															1	project specific list
C_24_3		9:00					X	X																1	
C_31_3		9:30					X		X															1	
C_38_3		10:00					X	X	X															1	Hold samples for 30 days Contact PM for disposal
C_39_3		11:30					X	X	X															1	
C_50_3		12:00					X	X																1	
C_48_3		12:20					X	X	X															1	
																									PO#0202349-002

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify) EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Cam Luckey	1-15-25 15:30				

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	43
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	16 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	27°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No excavation activities were performed today.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Lift No. 9 compaction testing and backfilling was not completed by the end of operations today.

II. BACKFILL AND COMPACTION TESTING

Haley & Aldrich, Inc. (H&A) representative Garrett Jones observed backfilling and compacting in the northwest pit. The material for backfilling consisted of silty sand with gravel. The CAT compactor would then use its blade to create a flat area for H&A to compaction test. A minimum of one compaction test was conducted per every 5,000 square feet within the repository to determine if relative compaction achieved met or exceeded the 90% maximum dry density required by the plans and specifications.

The material was placed in 18-inch-thick lifts. Each lift was compacted with the CAT 825C Compactor, using 10 or more passes, to have the required minimum density for the density tests performed. The Troxler E-Gauge started to malfunction mid-morning today. In response, H&A began using a 1/2-inch steel T-probe to assess the firmness of the subgrade and observed penetrations of approximately 2 inches to 4 inches. T-probing continued the rest of the day. The subgrade appeared to be firm and unyielding and generally appeared to be in accordance with the plans and specifications. Test results are shown below in Table 1.

Table 1. Density Testing Summary

Test No. (Lift/#)	Maximum Dry Density (pcf)	Field Dry Density (pcf)	Field Density Percentage (%)	Optimum Moisture Content (%)	Field Moisture Content (%)	Pass/Fail?
10-1	134	125.76	93.85	6.7	9.04	Pass
10-2	134	126.78	94.61	6.7	8.37	Pass
10-3	134	127.82	95.39	6.7	8.07	Pass
9-17	134	123.33	92.04	6.7	8.23	Pass

III. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated from 07:15 to 16:00. DM 49913 was positioned downwind of Site work. Upwind monitor 47181 appears to be malfunctioning. H&A is working to troubleshoot this issue. The relative humidity in the morning was approximately 93% and the wind was to the north-northeast.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates, nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was well-controlled. Dust monitoring data is attached.

IV. CONFIRMATION SAMPLING:

The following confirmation samples were taken, as well as shipped with UPS, today:

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
CP_35_3	01-16-2025	09:35	cPAHs
CP_46_3	01-16-2025	10:30	cPAHs
CP_47_3	01-16-2025	11:10	cPAHs
CP_55_2.5	01-16-2025	11:55	cPAHs
CP_54_2.5	01-16-2025	12:30	cPAHs

Discussions:

Name	Topic
Halme; H&A	H&A spoke with Jake of Halme about passing and failing units and backfill means and methods of compaction.
HALME; CVSD; H&A	H&A attended a client meeting discussing the general status of the project, the evaluation of over-ex units based on soil color, and compaction procedures.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden	7.5 hours	2.5 hours	10.0 hours
Garrett Jones	9.5 hours	0.5 hours	10.0 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Confirmation Sampling Plan
Attachment E – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.



Photo 01. Loading contaminated soil from over-ex contaminated stockpile into haul truck for repository fill (view looking north).



Photo 02. End of day repository – facing west.

Site Photographs – 16 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Downwind								
Modem 49913	1/16/2025 18:20	1/16/2025 18:30	0.011	0.011	0.011	0.011	0.011	0.011
Modem 49913	1/16/2025 18:10	1/16/2025 18:20	0.009	0.009	0.009	0.009	0.009	0.010
Modem 49913	1/16/2025 18:00	1/16/2025 18:10	0.01	0.01	0.01	0.01	0.01	0.010
Modem 49913	1/16/2025 17:50	1/16/2025 18:00	0.011	0.011	0.012	0.012	0.012	0.011
Modem 49913	1/16/2025 17:40	1/16/2025 17:50	0.012	0.012	0.012	0.014	0.014	0.013
Modem 49913	1/16/2025 17:30	1/16/2025 17:40	0.012	0.012	0.012	0.013	0.013	0.011
Modem 49913	1/16/2025 17:20	1/16/2025 17:30	0.012	0.012	0.012	0.013	0.013	0.010
Modem 49913	1/16/2025 17:10	1/16/2025 17:20	0.012	0.012	0.012	0.012	0.012	0.010
Modem 49913	1/16/2025 17:00	1/16/2025 17:10	0.011	0.012	0.012	0.012	0.012	0.010
Modem 49913	1/16/2025 16:50	1/16/2025 17:00	0.011	0.011	0.012	0.012	0.013	0.013
Modem 49913	1/16/2025 16:40	1/16/2025 16:50	0.011	0.011	0.011	0.012	0.012	0.010
Modem 49913	1/16/2025 16:30	1/16/2025 16:40	0.01	0.01	0.01	0.011	0.011	0.009
Modem 49913	1/16/2025 16:20	1/16/2025 16:30	0.01	0.01	0.01	0.011	0.011	0.009
Modem 49913	1/16/2025 16:10	1/16/2025 16:20	0.009	0.009	0.01	0.01	0.01	0.009
Modem 49913	1/16/2025 16:00	1/16/2025 16:10	0.009	0.009	0.01	0.01	0.01	0.010
Modem 49913	1/16/2025 15:50	1/16/2025 16:00	0.009	0.01	0.01	0.01	0.01	0.010
Modem 49913	1/16/2025 15:40	1/16/2025 15:50	0.01	0.01	0.011	0.011	0.011	0.010
Modem 49913	1/16/2025 15:30	1/16/2025 15:40	0.007	0.007	0.008	0.008	0.008	0.008
Modem 49913	1/16/2025 15:20	1/16/2025 15:30	0.007	0.007	0.007	0.007	0.007	0.009
Modem 49913	1/16/2025 15:10	1/16/2025 15:20	0.007	0.007	0.007	0.007	0.007	0.006
Modem 49913	1/16/2025 15:00	1/16/2025 15:10	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	1/16/2025 14:50	1/16/2025 15:00	0.009	0.01	0.011	0.013	0.013	0.011
Modem 49913	1/16/2025 14:40	1/16/2025 14:50	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	1/16/2025 14:30	1/16/2025 14:40	0.007	0.007	0.007	0.007	0.007	0.009
Modem 49913	1/16/2025 14:20	1/16/2025 14:30	0.005	0.005	0.006	0.006	0.006	0.007
Modem 49913	1/16/2025 14:10	1/16/2025 14:20	0.006	0.007	0.007	0.007	0.007	0.008
Modem 49913	1/16/2025 14:00	1/16/2025 14:10	0.008	0.008	0.008	0.009	0.009	0.009
Modem 49913	1/16/2025 13:50	1/16/2025 14:00	0.008	0.009	0.008	0.009	0.009	0.008
Modem 49913	1/16/2025 13:40	1/16/2025 13:50	0.008	0.008	0.009	0.009	0.009	0.008
Modem 49913	1/16/2025 13:30	1/16/2025 13:40	0.008	0.008	0.008	0.008	0.008	0.008
Modem 49913	1/16/2025 13:20	1/16/2025 13:30	0.009	0.009	0.01	0.01	0.01	0.008
Modem 49913	1/16/2025 13:10	1/16/2025 13:20	0.004	0.004	0.005	0.005	0.005	0.007
Modem 49913	1/16/2025 13:00	1/16/2025 13:10	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	1/16/2025 12:50	1/16/2025 13:00	0.007	0.007	0.007	0.008	0.008	0.011
Modem 49913	1/16/2025 12:40	1/16/2025 12:50	0.007	0.007	0.007	0.007	0.007	0.011
Modem 49913	1/16/2025 12:30	1/16/2025 12:40	0.008	0.008	0.009	0.01	0.01	0.013
Modem 49913	1/16/2025 12:20	1/16/2025 12:30	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/16/2025 12:10	1/16/2025 12:20	0.007	0.008	0.008	0.008	0.008	
Modem 49913	1/16/2025 12:00	1/16/2025 12:10	0.007	0.008	0.008	0.008	0.008	
Modem 49913	1/16/2025 11:50	1/16/2025 12:00	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/16/2025 11:40	1/16/2025 11:50	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/16/2025 11:30	1/16/2025 11:40	0.008	0.008	0.008	0.008	0.008	
Modem 49913	1/16/2025 11:20	1/16/2025 11:30	0.006	0.006	0.006	0.006	0.006	
Modem 49913	1/16/2025 11:10	1/16/2025 11:20	0.007	0.008	0.008	0.008	0.008	
Modem 49913	1/16/2025 11:00	1/16/2025 11:10	0.007	0.007	0.007	0.007	0.007	
Modem 49913	1/16/2025 10:50	1/16/2025 11:00	0.012	0.012	0.012	0.013	0.013	
Modem 49913	1/16/2025 10:40	1/16/2025 10:50	0.014	0.014	0.014	0.015	0.015	
Modem 49913	1/16/2025 10:30	1/16/2025 10:40	0.014	0.014	0.014	0.015	0.015	

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

501221

CHAIN OF CUSTODY RECORD

01/17/25 ISM/FI

Phone (509) 960-7447
Fax (509) 960-7447
Page 1 of 1

H&A FILE NO. 0227349
PROJECT NAME CVSD
H&A CONTACT Breeyn Greey

LABORATORY Friedman & Bruya
ADDRESS 5500 4th Ave S, Seattle, WA 98108
CONTACT

DELIVERY DATE 1/16/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greey

Lab ID	Sample No.	Date	Time	Depth	Type	Analysis Requested: PAH project Spec. List	Analysis Requested: ISM Processing	Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)
01	CP_35_3	1/16/25	9:35	3'	Soil	X	X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
02	CP_46_3	1/16/25	10:30	3'	Soil	X	X	1	- Archive for 1 month
03	CP_47_3	1/16/25	11:10	3'	Soil	X	X	1	- PAH Project Specific List
04	CP_55_2.5	1/16/25	11:55	2.5' [redacted]	Soil	X	X	1	- ISM Processing
05	CP_54_2.5	1/16/25	12:30	2.5' [redacted]	Soil	X	X	1	

Samples received at 2 °C

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Peden	Print Anh Phan
Firm Haley & Aldrich	Firm FBI
Date 1/16/25 Time 15:30	Date 01/17/25 Time 11:27
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
	VOA Vial
	Amber Glass
	Plastic Bottle
	Preservative
	Volume

SOLID	
	VOA Vial
	Amber Glass
	Clear Glass
	Preservative
	Volume

PRESERVATION KEY

A Sample chilled (circled) C NaOH E H_2SO_4 G Methanol
B Sample filtered D HNO_3 F HCL H Water/NaHSO4 (circle)

Sampling Comments

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

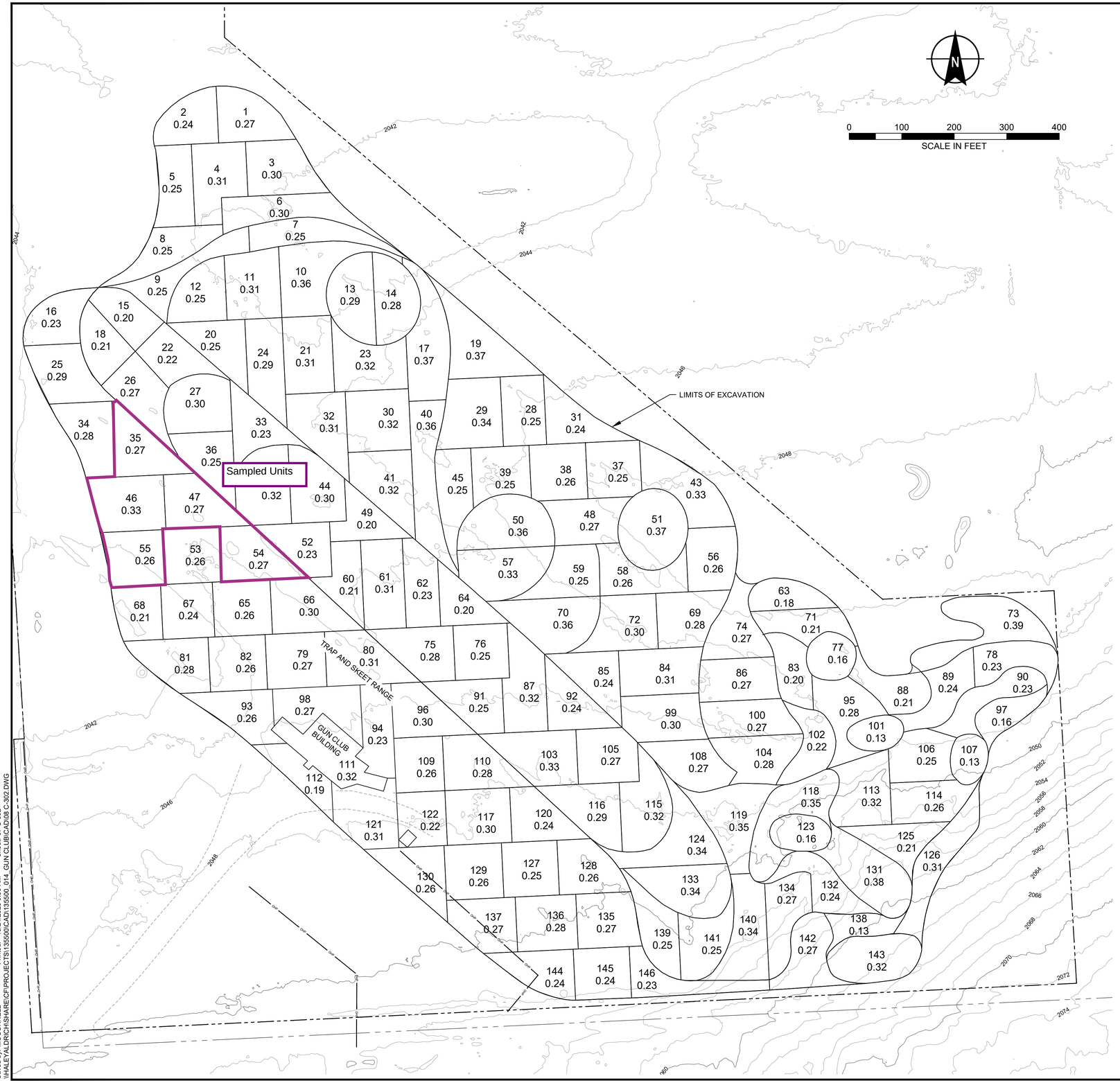
Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory

Form 3003

November 2024



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

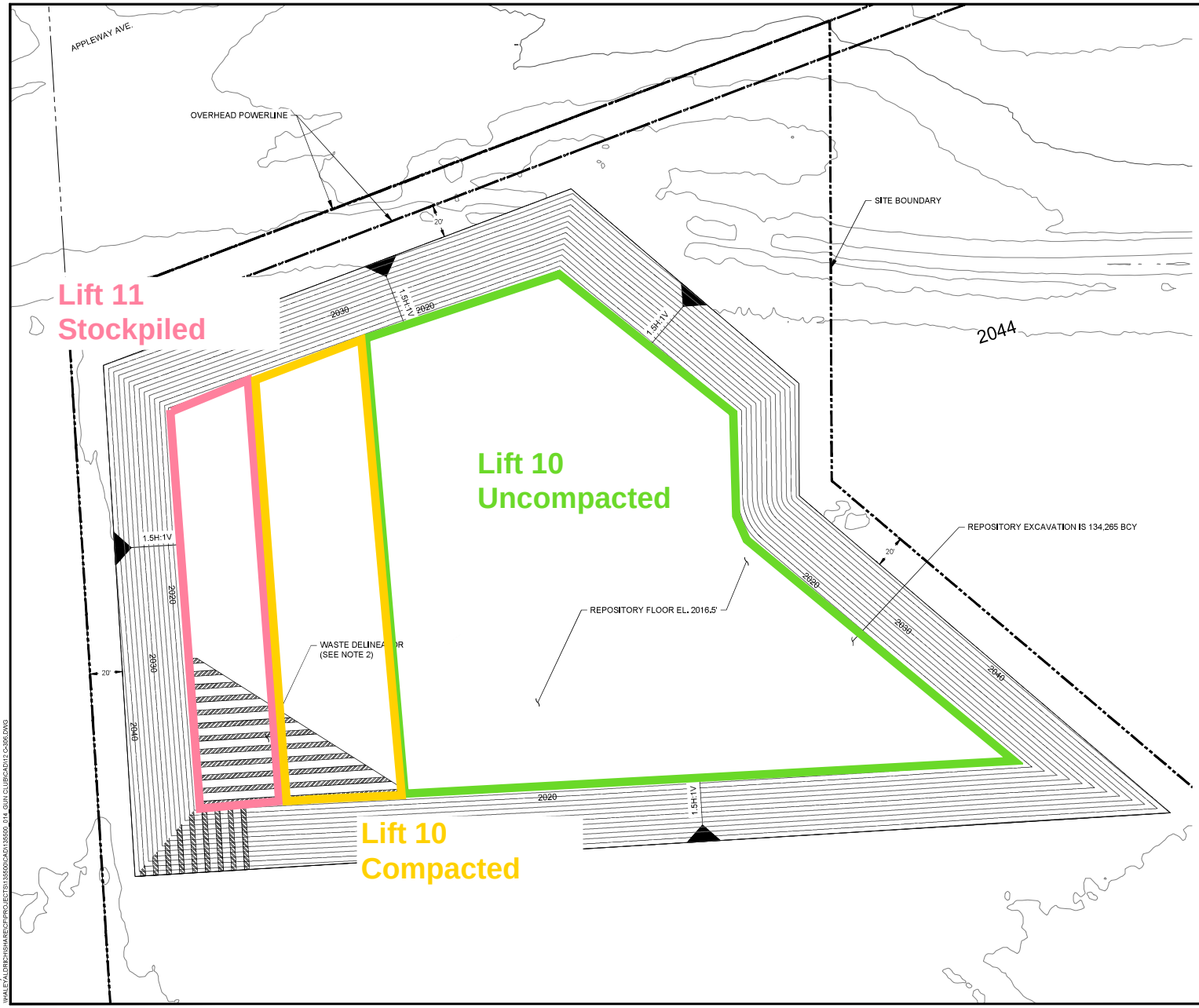
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CF\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE, SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	44
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	17 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	13-26°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme spent the full day over-excavating southern units noted on the attached Confirmation Sampling Plan. Units were over excavated by a D11 dozer. This contaminated material was pushed into the southern stockpile to later be transported into the repository. Halme notes that over excavated units visually appeared black and will more than likely need further excavation after Haley & Aldrich, Inc. (H&A) inspects this area.

b. Repository Excavation: No repository excavation was conducted today.

II. BACKFILL AND COMPACTION TESTING:

Halme continued to backfill the repository for the duration of the excavation day. H&A was on-Site to compaction test. Due to freezing temperatures, the repository lift that was placed the previous day had frozen. Halme was not able to break up the frozen lift, but continued to backfill the repository in areas where loose material was already placed and not compacted. Halme was instructed to not add another lift onto frozen material until H&A and Halme formulated a plan to overcome the frozen material. No lifts were added today for this reason. Repository markup is provided in the attached Confirmation Sampling Plan.

III. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was upwind, and Unit 47181 was downwind. It was noted today that the relative humidity in the morning was approximately 76% and the wind direction was east to west.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during excavation activities today. H&A believes this is due to the proximity of haul trucks traveling adjacent to the dust monitor in route to the excavation at the start of excavation and for lunch breaks. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air. Dust monitoring data is attached.

IV. CONFIRMATION SAMPLING:

Conformation samples collected today are provided in Table 1 below.

Table 1. Confirmation Sampling Information

Name	Date	Time	Analysis
CP_79_3	01-17-2025	1230	cPAHs
CP_80_3	01-17-2025	1300	cPAHs
CP_81_3	01-17-2025	1340	cPAHs
CP_82_3	01-17-2025	1320	cPAHs

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	44
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	17 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast	**Temperature**	13-26°F

Table 1. Confirmation Sampling Information

Name	Date	Time	Analysis
CP_65_3	01-17-2025	1030	cPAHs
CP_66_3	01-17-2025	1100	cPAHs
CP_67_3	01-17-2025	1010	cPAHs
CP_68_3	01-17-2025	0945	cPAHs

Discussions:

Name	Topic
HALME; H&A	H&A spoke with Casey of Halme regarding operating hours and units over excavated today.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	6.5 hours	3.0 hours	9.5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Dust Monitoring Data
Attachment B – Chain of Custody Record
Attachment C – Confirmation Sampling Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_17_25_CAL_DFR_44/01-17-25 DFR.docx

ATTACHMENT A
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Downwind								
Modem 49913	1/17/2025 14:40	1/17/2025 14:50	0.003	0.003	0.003	0.003	0.003	0.005
Modem 49913	1/17/2025 14:30	1/17/2025 14:40	0.002	0.002	0.003	0.003	0.003	0.005
Modem 49913	1/17/2025 14:20	1/17/2025 14:30	0.003	0.003	0.003	0.003	0.003	0.009
Modem 49913	1/17/2025 14:10	1/17/2025 14:20	0.003	0.003	0.003	0.003	0.003	0.011
Modem 49913	1/17/2025 14:00	1/17/2025 14:10	0.003	0.003	0.003	0.003	0.003	0.009
Modem 49913	1/17/2025 13:50	1/17/2025 14:00	0.003	0.004	0.004	0.004	0.004	0.012
Modem 49913	1/17/2025 13:40	1/17/2025 13:50	0.004	0.004	0.004	0.004	0.004	0.015
Modem 49913	1/17/2025 13:30	1/17/2025 13:40	0.004	0.004	0.004	0.004	0.004	0.017
Modem 49913	1/17/2025 13:20	1/17/2025 13:30	0.005	0.005	0.006	0.006	0.006	0.016
Modem 49913	1/17/2025 13:10	1/17/2025 13:20	0.004	0.004	0.005	0.005	0.005	0.019
Modem 49913	1/17/2025 13:00	1/17/2025 13:10	0.005	0.005	0.005	0.005	0.005	0.018
Modem 49913	1/17/2025 12:50	1/17/2025 13:00	0.005	0.005	0.005	0.005	0.005	0.017
Modem 49913	1/17/2025 12:40	1/17/2025 12:50	0.006	0.006	0.006	0.006	0.006	0.022
Modem 49913	1/17/2025 12:30	1/17/2025 12:40	0.007	0.007	0.007	0.007	0.007	0.009
Modem 49913	1/17/2025 12:20	1/17/2025 12:30	0.014	0.014	0.014	0.015	0.015	0.013
Modem 49913	1/17/2025 12:10	1/17/2025 12:20	0.017	0.017	0.017	0.018	0.018	0.015
Modem 49913	1/17/2025 12:00	1/17/2025 12:10	0.014	0.015	0.015	0.015	0.015	0.013
Modem 49913	1/17/2025 11:50	1/17/2025 12:00	0.019	0.019	0.02	0.02	0.02	
Modem 49913	1/17/2025 11:40	1/17/2025 11:50	0.025	0.025	0.025	0.026	0.026	
Modem 49913	1/17/2025 11:30	1/17/2025 11:40	0.028	0.028	0.028	0.029	0.029	
Modem 49913	1/17/2025 11:20	1/17/2025 11:30	0.025	0.025	0.025	0.026	0.026	
Modem 49913	1/17/2025 11:10	1/17/2025 11:20	0.029	0.029	0.03	0.032	0.032	
Modem 49913	1/17/2025 11:00	1/17/2025 11:10	0.029	0.029	0.03	0.031	0.031	
Modem 49913	1/17/2025 10:50	1/17/2025 11:00	0.026	0.026	0.027	0.028	0.029	
Modem 49913	1/17/2025 10:40	1/17/2025 10:50	0.035	0.036	0.037	0.038	0.038	
Modem 49913	1/17/2025 10:30	1/17/2025 10:40	0.011	0.011	0.011	0.011	0.011	
Modem 49913	1/17/2025 10:20	1/17/2025 10:30	0.011	0.011	0.011	0.011	0.011	
Modem 49913	1/17/2025 10:10	1/17/2025 10:20	0.011	0.011	0.011	0.011	0.011	
Modem 49913	1/17/2025 10:00	1/17/2025 10:10	0.011	0.011	0.011	0.011	0.011	
Upwind								
Modem 47181	1/17/2025 14:20	1/17/2025 14:30	0.007	0.007	0.007	0.007	0.007	0.014
Modem 47181	1/17/2025 14:10	1/17/2025 14:20	0.007	0.008	0.008	0.008	0.008	0.013
Modem 47181	1/17/2025 14:00	1/17/2025 14:10	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	1/17/2025 13:50	1/17/2025 14:00	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	1/17/2025 13:40	1/17/2025 13:50	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	1/17/2025 13:30	1/17/2025 13:40	0.007	0.008	0.008	0.008	0.008	0.004
Modem 47181	1/17/2025 13:20	1/17/2025 13:30	0.009	0.009	0.009	0.009	0.009	0.005
Modem 47181	1/17/2025 13:10	1/17/2025 13:20	0.009	0.009	0.009	0.01	0.01	0.005
Modem 47181	1/17/2025 13:00	1/17/2025 13:10	0.009	0.009	0.009	0.01	0.01	0.005
Modem 47181	1/17/2025 12:50	1/17/2025 13:00	0.012	0.012	0.013	0.013	0.013	0.007
Modem 47181	1/17/2025 12:40	1/17/2025 12:50	0.011	0.011	0.011	0.012	0.012	0.006
Modem 47181	1/17/2025 12:30	1/17/2025 12:40	0.017	0.017	0.017	0.018	0.018	0.009
Modem 47181	1/17/2025 12:20	1/17/2025 12:30	0.018	0.019	0.019	0.02	0.02	0.010
Modem 47181	1/17/2025 12:10	1/17/2025 12:20	0.017	0.017	0.017	0.018	0.018	0.009
Modem 47181	1/17/2025 12:00	1/17/2025 12:10	0	0	0	0	0	0.000
Modem 47181	1/17/2025 11:50	1/17/2025 12:00	0	0	0	0	0	

ATTACHMENT A
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 47181	1/17/2025 11:40	1/17/2025 11:50	0	0	0	0	0	
Modem 47181	1/17/2025 11:30	1/17/2025 11:40	0	0	0	0	0	
Modem 47181	1/17/2025 11:20	1/17/2025 11:30	0	0	0	0	0	
Modem 47181	1/17/2025 11:10	1/17/2025 11:20	0	0	0	0	0	
Modem 47181	1/17/2025 11:00	1/17/2025 11:10	0	0	0	0	0	
Modem 47181	1/17/2025 10:50	1/17/2025 11:00	0	0	0	0	0	
Modem 47181	1/17/2025 10:40	1/17/2025 10:50	0	0	0	0	0	
Modem 47181	1/17/2025 10:30	1/17/2025 10:40	0	0	0	0	0	
Modem 47181	1/17/2025 10:20	1/17/2025 10:30	0	0	0	0	0	
Modem 47181	1/17/2025 10:10	1/17/2025 10:20	0	0	0	0	0	
Modem 47181	1/17/2025 10:00	1/17/2025 10:10	0	0	0	0	0	

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Report To Breeyn Greer
Company Haley & Aldrich
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (signature) Breeyn Greer
PROJECT NAME: CVSD Gun Club
PO #: 0202349-002
REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No
INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

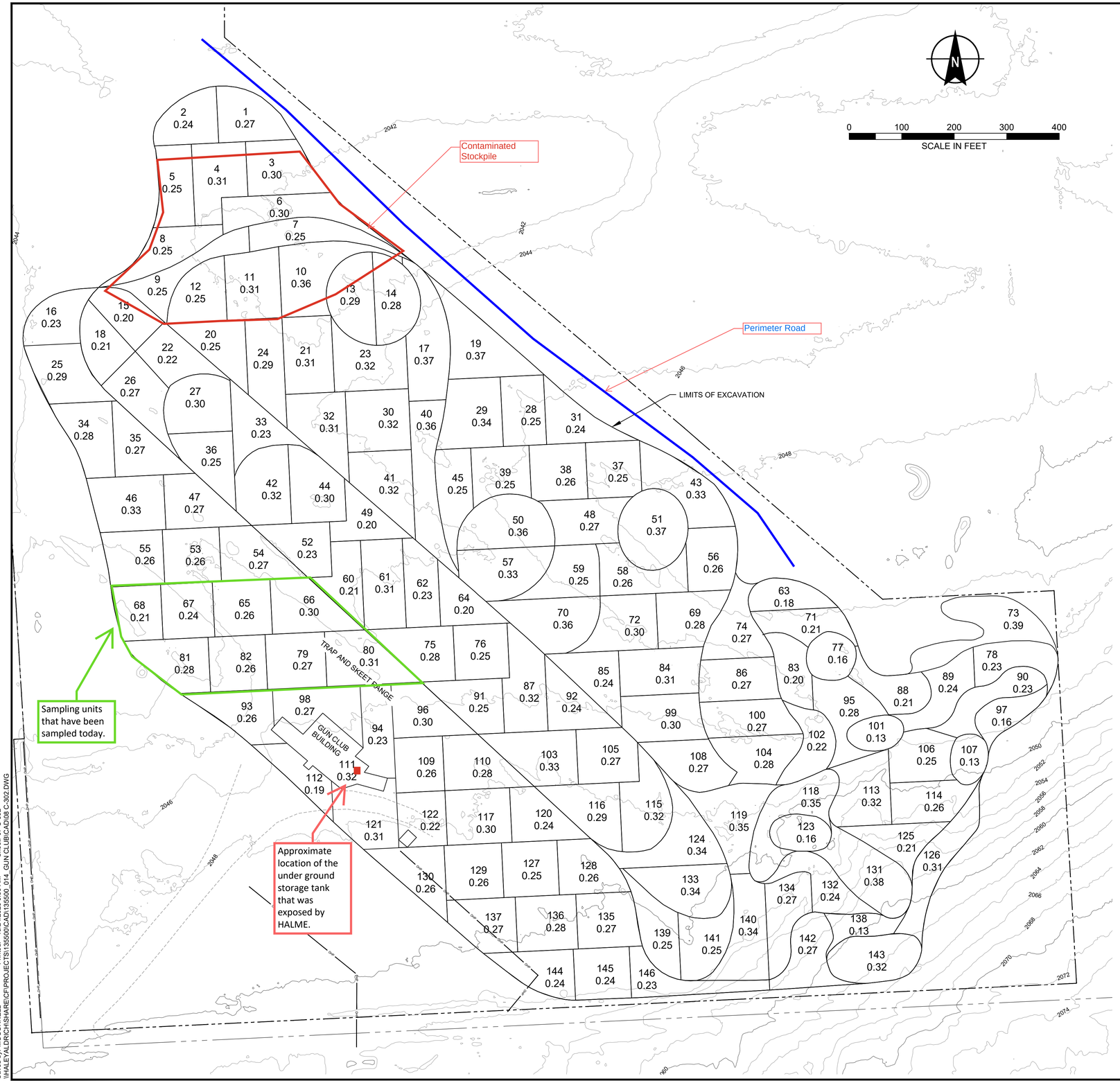
SAMPLE DISPOSAL
X Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	cPAHs EPA 8270	PCBs EPA 8082	Ism Prep					Notes
CP-79-3		1/17/25	1230	Soil	1					X		X					*cPAHs
CP-80-3			1300							X		X					Project Specific list
CP-81-3			1340							X		X					
CP-82-3			1320							X		X					
CP-65-3			1030							X		X					
CP-66-3			1100							X		X					
CP-67-3			1010							X		X					
CP-68-3		↓	0945	↓	↓					X		X					

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Tom Luckey	Haley + Aldrich	1-21-25	10:30
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
17 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	44
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	20 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast; Light Snow	**Temperature**	18-28°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme spent the full day excavating eastern Sample Units 113, 114, 125, 126, and 313, as noted on the attached Confirmation Sampling Plan. Units were over excavated by a D11 dozer. This contaminated material was pushed into the southern stockpile to later be transported into the repository.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Backfill activities conducted today are detailed below in Section II.

II. BACKFILL AND COMPACTION:

Haley & Aldrich, Inc. (H&A) observed recompacting of the remaining portions of Lift No. 11 and backfilling of Lift No. 12 in the repository. Due to the Troxler E-Gauge 4590 going out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 13 and deposited this soil in small stockpiles. By the end of the day, Lift No. 12 had resulted in 10 passing tests within the repository. However, only a small portion of Lift No. 12 was covered by these Lift No. 13 stockpiles.

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
12/1	2-4”	Pass
12/2	2-4”	Pass
12/3	2-4"	Pass
12/4	2-4"	Pass
12/5	2-4"	Pass
12/6	2-4"	Pass
12/7	2-4"	Pass
12/8	2-4"	Pass
12/9	2-4"	Pass
12/10	4-6"	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	44
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	20 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Overcast; Light Snow	**Temperature**	18-28°F

III. DUST MONITORING:

Dust monitors were deployed with telemetry capabilities in advance of earthwork today and operated all day. Samsara Unit 49913 was upwind, and Unit 47181 was downwind. It was noted today that the relative humidity in the morning was approximately 89% and the wind direction was east to west.

It was observed that dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the property boundary today. The PM_{10} 120-minute rolling average did exceed the threshold of 0.025 mg/m^3 during two of the 120-minute averages today. Site observations indicated that overall dust was well-controlled due to residual moisture in the ground and air moisture in the form of fog and residual snowfall. Dust monitoring data is attached.

IV. CONFIRMATION SAMPLING:

Conformation samples collected today.

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
CP_110_2.5	01-20-2025	1430	cPAHs
CP_121_3	01-20-2025	1515	cPAHs
CP_98_3	01-20-2025	1340	cPAHs
CP_96_3	01-20-2025	1410	cPAHs
CP_94_3	01-20-2025	1400	cPAHs
CP_93_3	01-20-2025	1330	cPAHs
CP_122_3	01-20-2025	1540	cPAHs
CP_109_3	01-20-2025	1445	cPAHs

Field Representative(s)	Time on Site	Report/Travel/Other	Total
Cameron Luckey	10.25 hours	1.00 hours	11.25 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan
Attachment D – Confirmation Sampling Plan
Attachment E – Chain of Custody Record



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_20_25_CAL_DFR_45/01-20-25 DFR.docx



Photo 1. Excavation progress of the south stockpile (view looking southeast).



Photo 2. Excavation progress of the south stockpile (view looking south).

Site Photographs – 20 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 3. Repository backfill progress (view looking west).



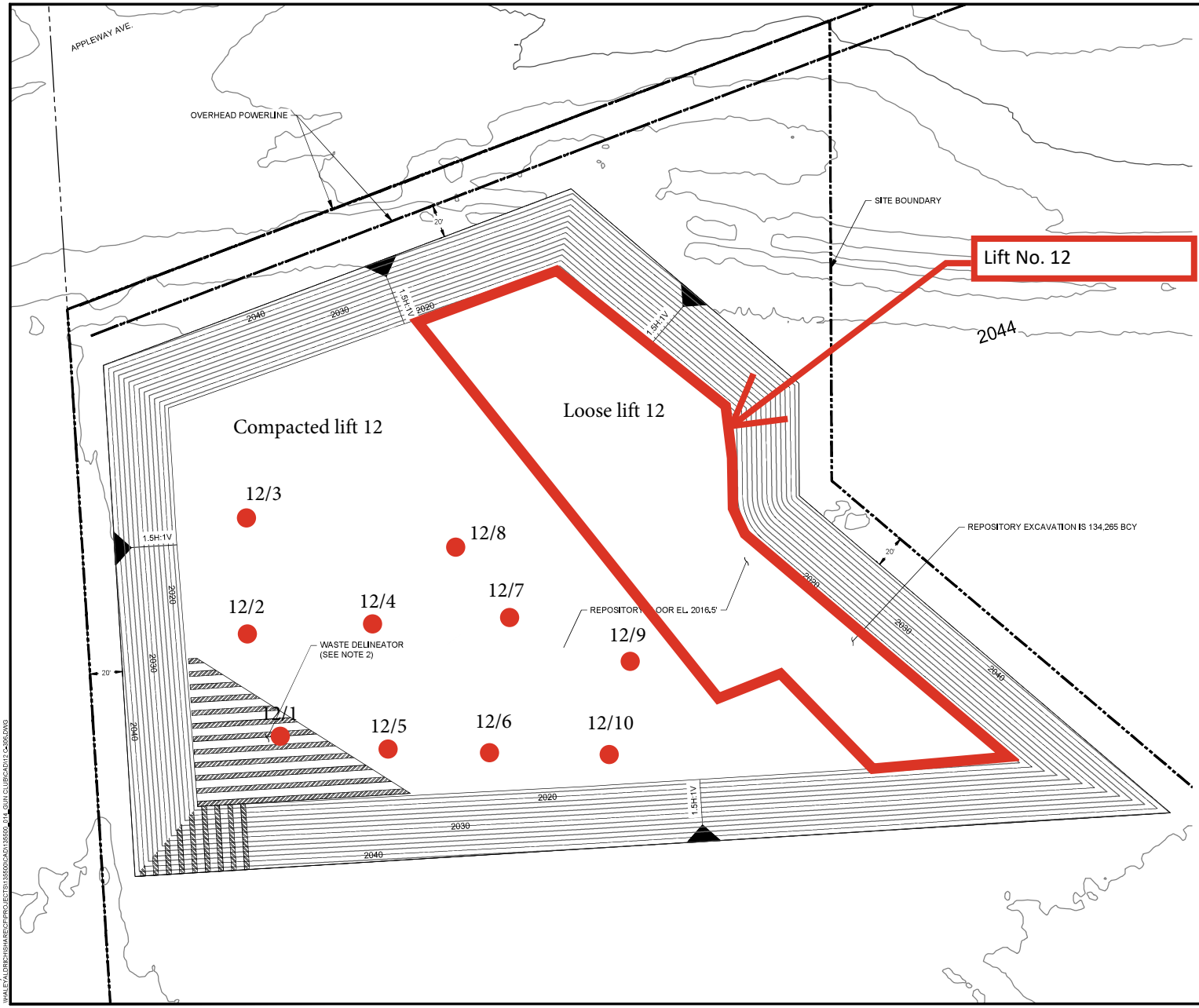
Photo 4.Repository backfill progress (view looking southwest).

Site Photographs – 20 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Downwind								
Modem 47181	1/20/2025 19:50	1/20/2025 20:00	0.018	0.019	0.021	0.025	0.025	0.018
Modem 47181	1/20/2025 19:40	1/20/2025 19:50	0.026	0.029	0.037	0.058	0.059	0.035
Modem 47181	1/20/2025 19:30	1/20/2025 19:40	0.017	0.019	0.024	0.031	0.032	0.020
Modem 47181	1/20/2025 19:20	1/20/2025 19:30	0.015	0.016	0.02	0.024	0.024	0.018
Modem 47181	1/20/2025 19:10	1/20/2025 19:20	0.011	0.012	0.013	0.015	0.015	0.013
Modem 47181	1/20/2025 19:00	1/20/2025 19:10	0.01	0.011	0.012	0.014	0.014	0.012
Modem 47181	1/20/2025 18:50	1/20/2025 19:00	0.01	0.011	0.012	0.014	0.014	0.013
Modem 47181	1/20/2025 18:40	1/20/2025 18:50	0.009	0.01	0.011	0.014	0.014	0.016
Modem 47181	1/20/2025 18:30	1/20/2025 18:40	0.012	0.013	0.015	0.02	0.02	0.016
Modem 47181	1/20/2025 18:20	1/20/2025 18:30	0.008	0.009	0.009	0.01	0.01	0.011
Modem 47181	1/20/2025 18:10	1/20/2025 18:20	0.009	0.009	0.01	0.011	0.011	0.011
Modem 47181	1/20/2025 18:00	1/20/2025 18:10	0.008	0.009	0.009	0.01	0.01	0.012
Modem 47181	1/20/2025 17:50	1/20/2025 18:00	0.008	0.009	0.009	0.01	0.01	0.012
Modem 47181	1/20/2025 17:40	1/20/2025 17:50	0.008	0.008	0.009	0.01	0.01	0.012
Modem 47181	1/20/2025 17:30	1/20/2025 17:40	0.007	0.007	0.008	0.008	0.008	0.013
Modem 47181	1/20/2025 17:20	1/20/2025 17:30	0.009	0.009	0.01	0.012	0.012	0.015
Modem 47181	1/20/2025 17:10	1/20/2025 17:20	0.008	0.009	0.009	0.01	0.01	0.014
Modem 47181	1/20/2025 17:00	1/20/2025 17:10	0.008	0.009	0.009	0.01	0.01	0.013
Modem 47181	1/20/2025 16:50	1/20/2025 17:00	0.009	0.009	0.01	0.011	0.011	0.015
Modem 47181	1/20/2025 16:40	1/20/2025 16:50	0.011	0.012	0.014	0.018	0.018	0.019
Modem 47181	1/20/2025 16:30	1/20/2025 16:40	0.009	0.009	0.01	0.011	0.011	0.016
Modem 47181	1/20/2025 16:20	1/20/2025 16:30	0.009	0.009	0.01	0.011	0.011	0.022
Modem 47181	1/20/2025 16:10	1/20/2025 16:20	0.01	0.01	0.01	0.011	0.011	0.015
Modem 47181	1/20/2025 16:00	1/20/2025 16:10	0.01	0.01	0.011	0.012	0.013	0.016
Modem 47181	1/20/2025 15:50	1/20/2025 16:00	0.011	0.011	0.011	0.013	0.013	0.016
Modem 47181	1/20/2025 15:40	1/20/2025 15:50	0.011	0.012	0.012	0.013	0.013	0.018
Modem 47181	1/20/2025 15:30	1/20/2025 15:40	0.015	0.015	0.016	0.017	0.017	0.018
Modem 47181	1/20/2025 15:20	1/20/2025 15:30	0.014	0.015	0.015	0.017	0.017	0.018
Modem 47181	1/20/2025 15:10	1/20/2025 15:20	0.015	0.015	0.016	0.018	0.018	0.026
Modem 47181	1/20/2025 15:00	1/20/2025 15:10	0.013	0.013	0.014	0.015	0.015	0.021
Modem 47181	1/20/2025 14:50	1/20/2025 15:00	0.015	0.015	0.016	0.018	0.018	0.022
Modem 47181	1/20/2025 14:40	1/20/2025 14:50	0.017	0.018	0.019	0.02	0.02	0.020
Modem 47181	1/20/2025 14:30	1/20/2025 14:40	0.018	0.019	0.019	0.021	0.021	0.019
Modem 47181	1/20/2025 14:20	1/20/2025 14:30	0.023	0.024	0.027	0.033	0.033	0.020
Modem 47181	1/20/2025 14:10	1/20/2025 14:20	0.016	0.016	0.016	0.017	0.018	0.013
Modem 47181	1/20/2025 14:00	1/20/2025 14:10	0.016	0.016	0.017	0.018	0.019	0.013
Modem 47181	1/20/2025 13:50	1/20/2025 14:00	0.016	0.017	0.018	0.019	0.019	
Modem 47181	1/20/2025 13:40	1/20/2025 13:50	0.017	0.018	0.019	0.022	0.022	
Modem 47181	1/20/2025 13:30	1/20/2025 13:40	0.017	0.017	0.017	0.018	0.018	
Modem 47181	1/20/2025 13:20	1/20/2025 13:30	0.018	0.019	0.019	0.019	0.019	
Modem 47181	1/20/2025 13:10	1/20/2025 13:20	0.03	0.03	0.031	0.032	0.033	
Modem 47181	1/20/2025 13:00	1/20/2025 13:10	0.022	0.023	0.023	0.026	0.026	
Modem 47181	1/20/2025 12:50	1/20/2025 13:00	0.025	0.025	0.025	0.026	0.026	
Modem 47181	1/20/2025 12:40	1/20/2025 12:50	0.019	0.019	0.02	0.02	0.02	
Modem 47181	1/20/2025 12:30	1/20/2025 12:40	0.017	0.017	0.017	0.017	0.017	
Modem 47181	1/20/2025 12:20	1/20/2025 12:30	0.007	0.007	0.007	0.007	0.007	
Modem 47181	1/20/2025 12:10	1/20/2025 12:20	0.007	0.007	0.007	0.007	0.007	
Modem 47181	1/20/2025 12:00	1/20/2025 12:10	0.007	0.007	0.007	0.007	0.007	
Upwind								
Modem 49913	1/20/2025 19:50	1/20/2025 20:00	0.006	0.006	0.007	0.008	0.008	0.006

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/20/2025 19:40	1/20/2025 19:50	0.005	0.005	0.006	0.007	0.007	0.005
Modem 49913	1/20/2025 19:30	1/20/2025 19:40	0.003	0.003	0.004	0.004	0.004	0.004
Modem 49913	1/20/2025 19:20	1/20/2025 19:30	0.003	0.003	0.003	0.004	0.004	0.004
Modem 49913	1/20/2025 19:10	1/20/2025 19:20	0.004	0.004	0.004	0.004	0.004	0.004
Modem 49913	1/20/2025 19:00	1/20/2025 19:10	0.003	0.003	0.003	0.003	0.003	0.003
Modem 49913	1/20/2025 18:50	1/20/2025 19:00	0.002	0.002	0.003	0.003	0.003	0.004
Modem 49913	1/20/2025 18:40	1/20/2025 18:50	0.002	0.003	0.003	0.004	0.004	0.004
Modem 49913	1/20/2025 18:30	1/20/2025 18:40	0.002	0.003	0.003	0.004	0.004	0.004
Modem 49913	1/20/2025 18:20	1/20/2025 18:30	0.002	0.002	0.003	0.003	0.003	0.004
Modem 49913	1/20/2025 18:10	1/20/2025 18:20	0.002	0.002	0.002	0.003	0.003	0.003
Modem 49913	1/20/2025 18:00	1/20/2025 18:10	0.002	0.003	0.003	0.004	0.004	0.005
Modem 49913	1/20/2025 17:50	1/20/2025 18:00	0.002	0.002	0.003	0.003	0.003	0.005
Modem 49913	1/20/2025 17:40	1/20/2025 17:50	0.001	0.001	0.002	0.003	0.003	0.005
Modem 49913	1/20/2025 17:30	1/20/2025 17:40	0.002	0.002	0.003	0.003	0.003	0.006
Modem 49913	1/20/2025 17:20	1/20/2025 17:30	0.002	0.002	0.003	0.003	0.003	0.007
Modem 49913	1/20/2025 17:10	1/20/2025 17:20	0.002	0.002	0.003	0.003	0.003	0.007
Modem 49913	1/20/2025 17:00	1/20/2025 17:10	0.002	0.002	0.003	0.003	0.003	0.007
Modem 49913	1/20/2025 16:50	1/20/2025 17:00	0.002	0.003	0.003	0.004	0.004	0.007
Modem 49913	1/20/2025 16:40	1/20/2025 16:50	0.002	0.002	0.002	0.003	0.003	0.008
Modem 49913	1/20/2025 16:30	1/20/2025 16:40	0.002	0.002	0.003	0.003	0.003	0.009
Modem 49913	1/20/2025 16:20	1/20/2025 16:30	0.003	0.003	0.003	0.004	0.004	0.011
Modem 49913	1/20/2025 16:10	1/20/2025 16:20	0.002	0.002	0.003	0.003	0.003	0.009
Modem 49913	1/20/2025 16:00	1/20/2025 16:10	0.004	0.004	0.005	0.006	0.006	0.009
Modem 49913	1/20/2025 15:50	1/20/2025 16:00	0.004	0.005	0.005	0.006	0.006	0.009
Modem 49913	1/20/2025 15:40	1/20/2025 15:50	0.005	0.005	0.006	0.007	0.007	0.010
Modem 49913	1/20/2025 15:30	1/20/2025 15:40	0.007	0.007	0.008	0.009	0.009	0.011
Modem 49913	1/20/2025 15:20	1/20/2025 15:30	0.009	0.009	0.01	0.01	0.011	0.014
Modem 49913	1/20/2025 15:10	1/20/2025 15:20	0.008	0.009	0.009	0.01	0.01	0.016
Modem 49913	1/20/2025 15:00	1/20/2025 15:10	0.008	0.008	0.009	0.01	0.01	0.016
Modem 49913	1/20/2025 14:50	1/20/2025 15:00	0.008	0.008	0.009	0.009	0.009	0.016
Modem 49913	1/20/2025 14:40	1/20/2025 14:50	0.011	0.012	0.012	0.013	0.013	0.015
Modem 49913	1/20/2025 14:30	1/20/2025 14:40	0.013	0.014	0.014	0.015	0.015	0.009
Modem 49913	1/20/2025 14:20	1/20/2025 14:30	0.015	0.015	0.016	0.017	0.017	0.010
Modem 49913	1/20/2025 14:10	1/20/2025 14:20	0.013	0.013	0.014	0.014	0.014	0.009
Modem 49913	1/20/2025 14:00	1/20/2025 14:10	0.011	0.011	0.011	0.011	0.011	0.007
Modem 49913	1/20/2025 13:50	1/20/2025 14:00	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/20/2025 13:40	1/20/2025 13:50	0.012	0.012	0.012	0.012	0.012	
Modem 49913	1/20/2025 13:30	1/20/2025 13:40	0.013	0.013	0.013	0.013	0.013	
Modem 49913	1/20/2025 13:20	1/20/2025 13:30	0.015	0.016	0.016	0.016	0.016	
Modem 49913	1/20/2025 13:10	1/20/2025 13:20	0.021	0.021	0.022	0.022	0.022	
Modem 49913	1/20/2025 13:00	1/20/2025 13:10	0.021	0.021	0.021	0.021	0.021	
Modem 49913	1/20/2025 12:50	1/20/2025 13:00	0.023	0.023	0.023	0.023	0.023	
Modem 49913	1/20/2025 12:40	1/20/2025 12:50	0.016	0.016	0.017	0.017	0.017	
Modem 49913	1/20/2025 12:30	1/20/2025 12:40	0.003	0.003	0.003	0.003	0.003	
Modem 49913	1/20/2025 12:20	1/20/2025 12:30	0.003	0.003	0.003	0.003	0.003	
Modem 49913	1/20/2025 12:10	1/20/2025 12:20	0.003	0.003	0.003	0.003	0.003	
Modem 49913	1/20/2025 12:00	1/20/2025 12:10	0.003	0.003	0.003	0.003	0.003	



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB CLEANUP PROJECT

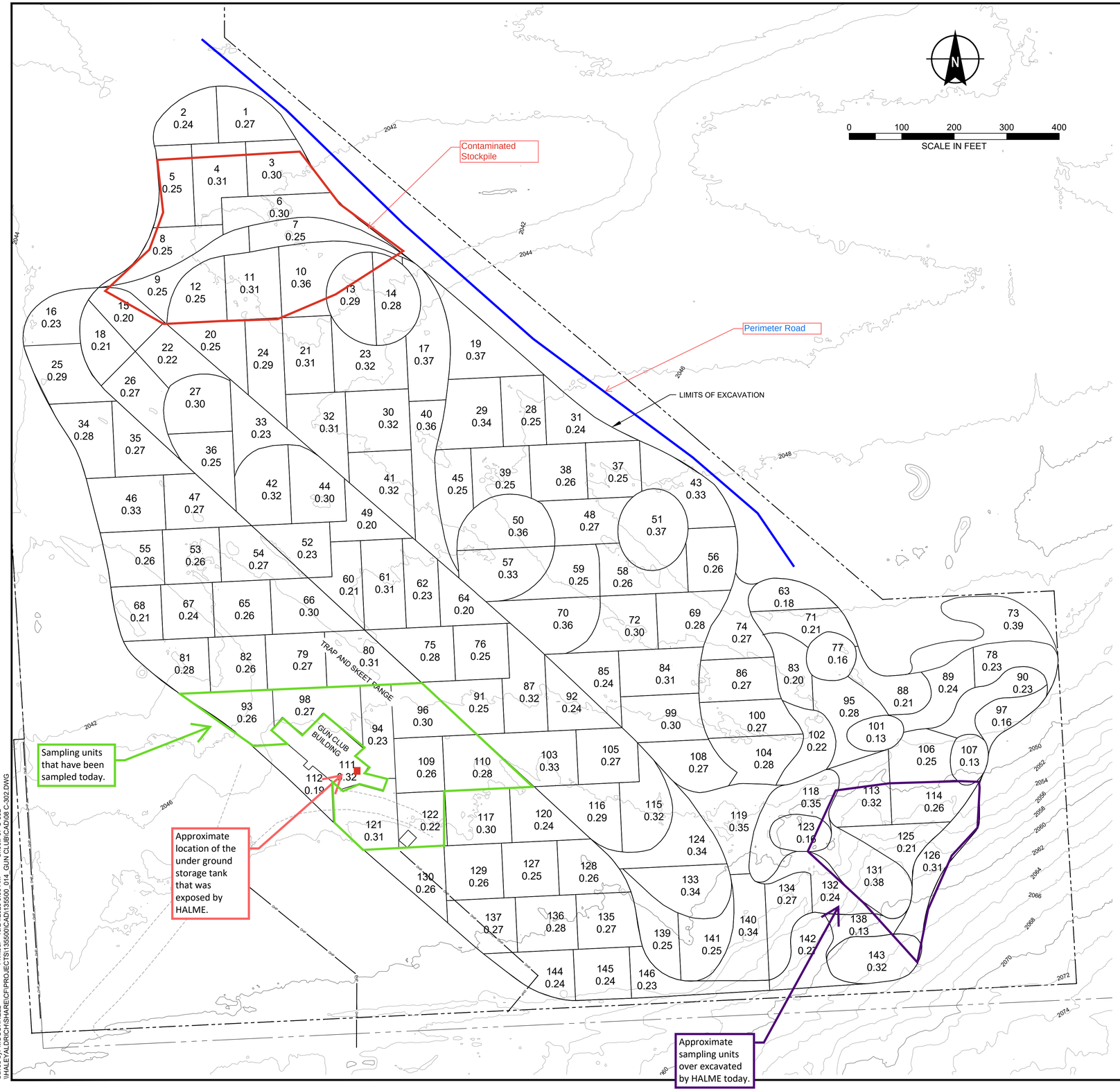
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY, WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL
I:\HALEYALDRICH\SHAREPOINTPROJECTS\135000\CAD\135000_CVSD_GUN CLUB\CAD\12 C-306.DWG
Printed: 10/24/2023 10:00 AM
Sheet: 11 C-306



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
20 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
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CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Report To Breeyn Greer

Company

Address 505 West Riverside Ave. Ste 450

City, State, ZIP Spokane, WA 99201

Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*) Cam L

PROJECT NAME: CVSD Gun Club

PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL

Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME: Standard Turnaround ~~RUSH~~

Rush charges authorized by:

SAMPLE DISPOSAL: Dispose after 30 days / Archive Samples / Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TSM Analysis	cPAHs Project Specific List	Pb EPA 6020	As EPA 6020		Notes
CP_110_2.5		1-20-25	14:30	Soil	1							X	X				Project Specific List
CP_121_3		1-20-25	15:15									X	X				
CP_98_3			13:40									X	X				
CP_96_3			1410									X	X				
CP_94_3			1400									X	X				
CP_93_3			13:30									X	X				
CP_122_3			15:40									X	X				
CP_109_3			14:45									X	X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Cameron Luckey	Cameron Luckey	Haley + Aldrich	1-21-25	10:30
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	46
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	21 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	20-30°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No excavation activities were performed today.

b. Repository Excavation: No repository excavation was conducted today.

c. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying, compacting, and backfilling of Lift No. 12 in the repository. The scarified material consisted of light, silty sand with gravel, while the backfilled material consisted of dark, sandy silt. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 13 and deposited this soil in small stockpiles. By the end of the day, Lift No. 12 had been fully cleared as adequately compacted, but with only about a third of the Lift being covered by Lift No. 13 stockpiles.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated from 07:15 to 15:45. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 81% and the wind was to the north-northeast.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary; however, they did exceed the threshold of 0.025 mg/m^3 during the PM_{10} 120-minute rolling average at the downwind property boundary. Site observations match with these readings, as large clouds of dust were observed trailing behind the haul trucks while driving on the haul roads. Following these field observations and data analysis, Halme was instructed to enact more intensive dust control measures, including increasing the frequency of road scraping and deploying water trucks to spray down roads, despite the freezing temperatures. H&A anticipates that these measures will decrease dust levels below the above thresholds.

III. COMPACTION TEST RESULTS:

Due to the Troxler E-Gauge 4590 going out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these(less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	46
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	21 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	20-30°F

The follow compaction tests were performed today, and yielded a total of 26 passing results across Lift No. 12 of the repository:

Table 1. Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Test Result
12/1	SE Arm	09:00	2-6”	Pass
12/2	SE Arm	09:00	2-6”	Pass
12/3	SE Arm	09:00	2-6”	Pass
12/4	West Wall	09:00	2-6”	Pass
12/5	West Wall	09:00	2-6”	Pass
12/6	West Wall	09:00	2-6”	Pass
12/7	West Side	09:00	<2”	Fail
12/8	West Side	09:00	<2”	Fail
12/9	West Side	10:00	2-6”	Pass
12/10	West Side	10:00	2-6”	Pass
12/11	West Side	10:00	2-6”	Pass
12/12	West Side	10:00	2-6”	Pass
12/13	North Side	12:45	2-6”	Pass
12/14	North Side	12:45	2-6”	Pass
12/15	North Side	12:45	2-6”	Pass
12/16	North Side	12:45	2-6”	Pass
12/17	Middle	12:45	2-6”	Pass
12/18	Middle	12:45	2-6”	Pass
12/19	Middle	12:45	2-6”	Pass
12/20	Middle	12:45	2-6”	Pass
12/21	South Side	12:45	>6”	Fail
12/22	South Side	12:45	>6”	Fail
12/23	South Side	1245	>6”	Fail
12/24	South Side	12:45	>6”	Fail
12/25	South Side	15:00	2-6”	Pass
12/26	South Side	15:00	2-6”	Pass
12/27	South Side	15:00	2-6”	Pass
12/28	South Side	15:00	2-6”	Pass
12/29	East Side	15:00	2-6”	Pass
12/30	East Side	15:00	2-6”	Pass
12/31	East Side	15:00	2-6”	Pass
12/32	East Side	15:00	2-6”	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	46
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	21 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	20-30°F

IV. CONFIRMATION SAMPLING:

The following confirmation samples were taken today, and shipped via UPS the following day (01-22-2025):

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
CP_137_2.5	01-21-2025	12:20	cPAHs
CP_136_2.5	01-21-2025	13:50	cPAHs
CP_135_2.5	01-21-2025	14:45	cPAHs
CP_130_2.5	01-21-2025	12:25	cPAHs
CP_120_3	01-21-2025	13:10	cPAHs
CP_128_3	01-21-2025	14:00	cPAHs

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 12 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden	9.25 hours	0.75 hours	10.00 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_21_25_LWP_DFR_46/01_21_25_LWP_DFR.docx



Photo 01. Haul trucks transporting contaminated soil from stockpiles to repository (view looking east).



Photo 02. Scarification of frozen soil in repository.

Site Photographs – 21 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Recompaction of scarified soil in repository.



Photo 04. Stockpiled fill for next lift in repository (looking north).

Site Photographs – 21 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	**Attachment A**



Photo 05. Dust cloud trailing haul truck entering repository (looking south).



Photo 06. Stockpiled fill in repository (looking east).

Site Photographs – 21 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

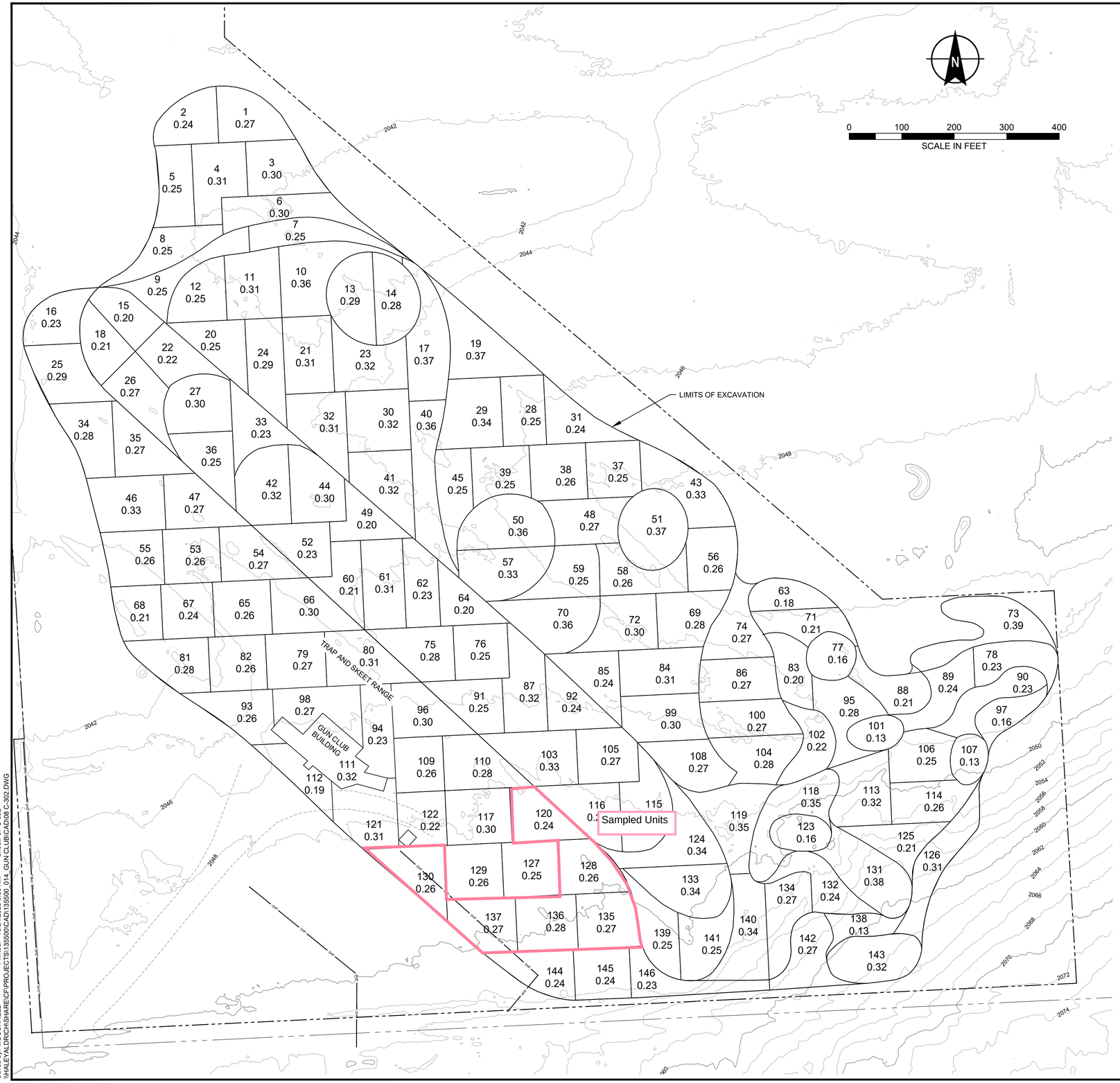
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	1/21/2025 19:50	1/21/2025 20:00	0.006	0.007	0.007	0.008	0.008	0.008
Modem 47181	1/21/2025 19:40	1/21/2025 19:50	0.006	0.007	0.007	0.008	0.008	0.008
Modem 47181	1/21/2025 19:30	1/21/2025 19:40	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 19:20	1/21/2025 19:30	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 19:10	1/21/2025 19:20	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 19:00	1/21/2025 19:10	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 18:50	1/21/2025 19:00	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 18:40	1/21/2025 18:50	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 18:30	1/21/2025 18:40	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	1/21/2025 18:20	1/21/2025 18:30	0.006	0.007	0.007	0.008	0.008	0.008
Modem 47181	1/21/2025 18:10	1/21/2025 18:20	0.006	0.007	0.007	0.008	0.008	0.009
Modem 47181	1/21/2025 18:00	1/21/2025 18:10	0.006	0.006	0.006	0.007	0.007	0.009
Modem 47181	1/21/2025 17:50	1/21/2025 18:00	0.006	0.006	0.006	0.007	0.007	0.010
Modem 47181	1/21/2025 17:40	1/21/2025 17:50	0.005	0.005	0.005	0.006	0.006	0.011
Modem 47181	1/21/2025 17:30	1/21/2025 17:40	0.005	0.005	0.005	0.005	0.005	0.012
Modem 47181	1/21/2025 17:20	1/21/2025 17:30	0.006	0.006	0.006	0.006	0.006	0.012
Modem 47181	1/21/2025 17:10	1/21/2025 17:20	0.005	0.005	0.005	0.005	0.005	0.013
Modem 47181	1/21/2025 17:00	1/21/2025 17:10	0.006	0.006	0.006	0.006	0.006	0.013
Modem 47181	1/21/2025 16:50	1/21/2025 17:00	0.006	0.006	0.006	0.007	0.007	0.013
Modem 47181	1/21/2025 16:40	1/21/2025 16:50	0.006	0.006	0.006	0.007	0.007	0.013
Modem 47181	1/21/2025 16:30	1/21/2025 16:40	0.016	0.016	0.016	0.016	0.016	0.014
Modem 47181	1/21/2025 16:20	1/21/2025 16:30	0.015	0.015	0.016	0.016	0.016	0.013
Modem 47181	1/21/2025 16:10	1/21/2025 16:20	0.015	0.016	0.016	0.017	0.017	0.013
Modem 47181	1/21/2025 16:00	1/21/2025 16:10	0.015	0.016	0.016	0.017	0.017	0.013
Modem 47181	1/21/2025 15:50	1/21/2025 16:00	0.016	0.016	0.017	0.018	0.019	0.016
Modem 47181	1/21/2025 15:40	1/21/2025 15:50	0.014	0.015	0.016	0.017	0.017	0.020
Modem 47181	1/21/2025 15:30	1/21/2025 15:40	0.011	0.011	0.011	0.012	0.012	0.024
Modem 47181	1/21/2025 15:20	1/21/2025 15:30	0.011	0.011	0.011	0.011	0.011	0.025
Modem 47181	1/21/2025 15:10	1/21/2025 15:20	0.012	0.012	0.012	0.013	0.013	0.026
Modem 47181	1/21/2025 15:00	1/21/2025 15:10	0.010	0.010	0.011	0.011	0.011	0.027
Modem 47181	1/21/2025 14:50	1/21/2025 15:00	0.009	0.009	0.009	0.009	0.009	0.027
Modem 47181	1/21/2025 14:40	1/21/2025 14:50	0.009	0.009	0.009	0.010	0.010	0.040
Modem 47181	1/21/2025 14:30	1/21/2025 14:40	0.008	0.008	0.009	0.009	0.009	0.041
Modem 47181	1/21/2025 14:20	1/21/2025 14:30	0.008	0.008	0.008	0.009	0.009	0.042
Modem 47181	1/21/2025 14:10	1/21/2025 14:20	0.015	0.015	0.016	0.016	0.016	0.044
Modem 47181	1/21/2025 14:00	1/21/2025 14:10	0.016	0.016	0.017	0.017	0.017	0.046
Modem 47181	1/21/2025 13:50	1/21/2025 14:00	0.029	0.032	0.039	0.058	0.059	0.048
Modem 47181	1/21/2025 13:40	1/21/2025 13:50	0.033	0.036	0.045	0.067	0.068	0.047
Modem 47181	1/21/2025 13:30	1/21/2025 13:40	0.034	0.037	0.047	0.071	0.074	0.044
Modem 47181	1/21/2025 13:20	1/21/2025 13:30	0.017	0.017	0.018	0.019	0.019	0.040
Modem 47181	1/21/2025 13:10	1/21/2025 13:20	0.020	0.021	0.022	0.025	0.025	0.040
Modem 47181	1/21/2025 13:00	1/21/2025 13:10	0.017	0.018	0.018	0.020	0.020	0.040
Modem 47181	1/21/2025 12:50	1/21/2025 13:00	0.018	0.019	0.019	0.021	0.021	0.039
Modem 47181	1/21/2025 12:40	1/21/2025 12:50	0.074	0.082	0.106	0.173	0.176	0.039
Modem 47181	1/21/2025 12:30	1/21/2025 12:40	0.020	0.021	0.021	0.022	0.023	0.027
Modem 47181	1/21/2025 12:20	1/21/2025 12:30	0.022	0.022	0.023	0.024	0.024	0.027
Modem 47181	1/21/2025 12:10	1/21/2025 12:20	0.023	0.024	0.025	0.027	0.027	0.026

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	1/21/2025 12:00	1/21/2025 12:10	0.030	0.032	0.037	0.046	0.046	0.026
Modem 47181	1/21/2025 11:50	1/21/2025 12:00	0.029	0.030	0.033	0.041	0.041	0.024
Modem 47181	1/21/2025 11:40	1/21/2025 11:50	0.030	0.032	0.036	0.044	0.044	0.022
Modem 47181	1/21/2025 11:30	1/21/2025 11:40	0.025	0.026	0.027	0.029	0.029	0.020
Modem 47181	1/21/2025 11:20	1/21/2025 11:30	0.022	0.023	0.025	0.029	0.029	0.019
Modem 47181	1/21/2025 11:10	1/21/2025 11:20	0.016	0.016	0.017	0.020	0.020	0.019
Modem 47181	1/21/2025 11:00	1/21/2025 11:10	0.014	0.014	0.014	0.015	0.015	0.019
Modem 47181	1/21/2025 10:50	1/21/2025 11:00	0.015	0.015	0.016	0.017	0.018	
Modem 47181	1/21/2025 10:40	1/21/2025 10:50	0.016	0.016	0.017	0.018	0.018	
Modem 47181	1/21/2025 10:30	1/21/2025 10:40	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 10:20	1/21/2025 10:30	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 10:10	1/21/2025 10:20	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 10:00	1/21/2025 10:10	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:50	1/21/2025 10:00	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:40	1/21/2025 9:50	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:30	1/21/2025 9:40	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:20	1/21/2025 9:30	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:10	1/21/2025 9:20	0.013	0.014	0.015	0.019	0.019	
Modem 47181	1/21/2025 9:00	1/21/2025 9:10	0.013	0.014	0.015	0.019	0.019	
Downwind								
Modem 49913	1/21/2025 19:50	1/21/2025 20:00	0.005	0.005	0.006	0.008	0.008	0.007
Modem 49913	1/21/2025 19:40	1/21/2025 19:50	0.005	0.005	0.006	0.008	0.008	0.006
Modem 49913	1/21/2025 19:30	1/21/2025 19:40	0.005	0.005	0.006	0.008	0.008	0.005
Modem 49913	1/21/2025 19:20	1/21/2025 19:30	0.005	0.005	0.006	0.008	0.008	0.005
Modem 49913	1/21/2025 19:10	1/21/2025 19:20	0.005	0.005	0.006	0.008	0.008	0.004
Modem 49913	1/21/2025 19:00	1/21/2025 19:10	0.005	0.005	0.006	0.008	0.008	0.004
Modem 49913	1/21/2025 18:50	1/21/2025 19:00	0.005	0.005	0.006	0.008	0.008	0.003
Modem 49913	1/21/2025 18:40	1/21/2025 18:50	0.004	0.004	0.004	0.005	0.005	0.003
Modem 49913	1/21/2025 18:30	1/21/2025 18:40	0.011	0.011	0.012	0.013	0.013	0.003
Modem 49913	1/21/2025 18:20	1/21/2025 18:30	0.002	0.002	0.002	0.002	0.002	0.003
Modem 49913	1/21/2025 18:10	1/21/2025 18:20	0.006	0.006	0.007	0.008	0.008	0.003
Modem 49913	1/21/2025 18:00	1/21/2025 18:10	0.001	0.001	0.001	0.002	0.002	0.004
Modem 49913	1/21/2025 17:50	1/21/2025 18:00	0.001	0.001	0.001	0.001	0.001	0.005
Modem 49913	1/21/2025 17:40	1/21/2025 17:50	0.000	0.000	0.000	0.000	0.000	0.006
Modem 49913	1/21/2025 17:30	1/21/2025 17:40	0.000	0.000	0.000	0.000	0.000	0.007
Modem 49913	1/21/2025 17:20	1/21/2025 17:30	0.000	0.000	0.000	0.001	0.001	0.008
Modem 49913	1/21/2025 17:10	1/21/2025 17:20	0.000	0.000	0.000	0.000	0.000	0.008
Modem 49913	1/21/2025 17:00	1/21/2025 17:10	0.000	0.000	0.000	0.001	0.001	0.009
Modem 49913	1/21/2025 16:50	1/21/2025 17:00	0.003	0.003	0.004	0.004	0.004	0.010
Modem 49913	1/21/2025 16:40	1/21/2025 16:50	0.001	0.001	0.001	0.001	0.001	0.010
Modem 49913	1/21/2025 16:30	1/21/2025 16:40	0.002	0.002	0.002	0.003	0.003	0.010
Modem 49913	1/21/2025 16:20	1/21/2025 16:30	0.011	0.011	0.012	0.013	0.013	0.011
Modem 49913	1/21/2025 16:10	1/21/2025 16:20	0.009	0.010	0.010	0.011	0.011	0.011
Modem 49913	1/21/2025 16:00	1/21/2025 16:10	0.013	0.013	0.014	0.016	0.016	0.011
Modem 49913	1/21/2025 15:50	1/21/2025 16:00	0.013	0.013	0.014	0.016	0.017	0.012
Modem 49913	1/21/2025 15:40	1/21/2025 15:50	0.011	0.012	0.013	0.014	0.014	0.012
Modem 49913	1/21/2025 15:30	1/21/2025 15:40	0.009	0.009	0.010	0.010	0.010	0.013
Modem 49913	1/21/2025 15:20	1/21/2025 15:30	0.009	0.009	0.010	0.011	0.011	0.014

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	1/21/2025 15:10	1/21/2025 15:20	0.008	0.008	0.008	0.009	0.009	0.014
Modem 49913	1/21/2025 15:00	1/21/2025 15:10	0.009	0.009	0.010	0.011	0.012	0.015
Modem 49913	1/21/2025 14:50	1/21/2025 15:00	0.007	0.007	0.008	0.008	0.008	0.017
Modem 49913	1/21/2025 14:40	1/21/2025 14:50	0.006	0.006	0.007	0.007	0.007	0.018
Modem 49913	1/21/2025 14:30	1/21/2025 14:40	0.003	0.004	0.004	0.004	0.004	0.019
Modem 49913	1/21/2025 14:20	1/21/2025 14:30	0.006	0.007	0.007	0.007	0.007	0.021
Modem 49913	1/21/2025 14:10	1/21/2025 14:20	0.011	0.011	0.012	0.013	0.013	0.023
Modem 49913	1/21/2025 14:00	1/21/2025 14:10	0.011	0.011	0.012	0.013	0.013	0.026
Modem 49913	1/21/2025 13:50	1/21/2025 14:00	0.018	0.019	0.022	0.031	0.032	0.028
Modem 49913	1/21/2025 13:40	1/21/2025 13:50	0.013	0.013	0.015	0.019	0.019	0.028
Modem 49913	1/21/2025 13:30	1/21/2025 13:40	0.015	0.016	0.018	0.022	0.022	0.028
Modem 49913	1/21/2025 13:20	1/21/2025 13:30	0.016	0.017	0.018	0.021	0.021	0.029
Modem 49913	1/21/2025 13:10	1/21/2025 13:20	0.015	0.015	0.016	0.017	0.017	0.035
Modem 49913	1/21/2025 13:00	1/21/2025 13:10	0.018	0.018	0.020	0.026	0.026	0.035
Modem 49913	1/21/2025 12:50	1/21/2025 13:00	0.021	0.022	0.024	0.031	0.031	0.034
Modem 49913	1/21/2025 12:40	1/21/2025 12:50	0.018	0.018	0.019	0.021	0.021	0.032
Modem 49913	1/21/2025 12:30	1/21/2025 12:40	0.020	0.021	0.021	0.023	0.023	0.031
Modem 49913	1/21/2025 12:20	1/21/2025 12:30	0.020	0.021	0.021	0.023	0.023	0.030
Modem 49913	1/21/2025 12:10	1/21/2025 12:20	0.032	0.033	0.036	0.042	0.042	0.029
Modem 49913	1/21/2025 12:00	1/21/2025 12:10	0.028	0.030	0.034	0.043	0.043	0.026
Modem 49913	1/21/2025 11:50	1/21/2025 12:00	0.026	0.027	0.030	0.037	0.038	0.023
Modem 49913	1/21/2025 11:40	1/21/2025 11:50	0.027	0.027	0.029	0.032	0.033	0.021
Modem 49913	1/21/2025 11:30	1/21/2025 11:40	0.025	0.026	0.027	0.028	0.028	0.019
Modem 49913	1/21/2025 11:20	1/21/2025 11:30	0.021	0.022	0.023	0.026	0.026	0.018
Modem 49913	1/21/2025 11:10	1/21/2025 11:20	0.047	0.051	0.065	0.107	0.108	0.016
Modem 49913	1/21/2025 11:00	1/21/2025 11:10	0.014	0.015	0.015	0.016	0.016	0.009
Modem 49913	1/21/2025 10:50	1/21/2025 11:00	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 10:40	1/21/2025 10:50	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 10:30	1/21/2025 10:40	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 10:20	1/21/2025 10:30	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 10:10	1/21/2025 10:20	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 10:00	1/21/2025 10:10	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:50	1/21/2025 10:00	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:40	1/21/2025 9:50	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:30	1/21/2025 9:40	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:20	1/21/2025 9:30	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:10	1/21/2025 9:20	0.006	0.006	0.007	0.008	0.008	
Modem 49913	1/21/2025 9:00	1/21/2025 9:10	0.006	0.006	0.007	0.008	0.008	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

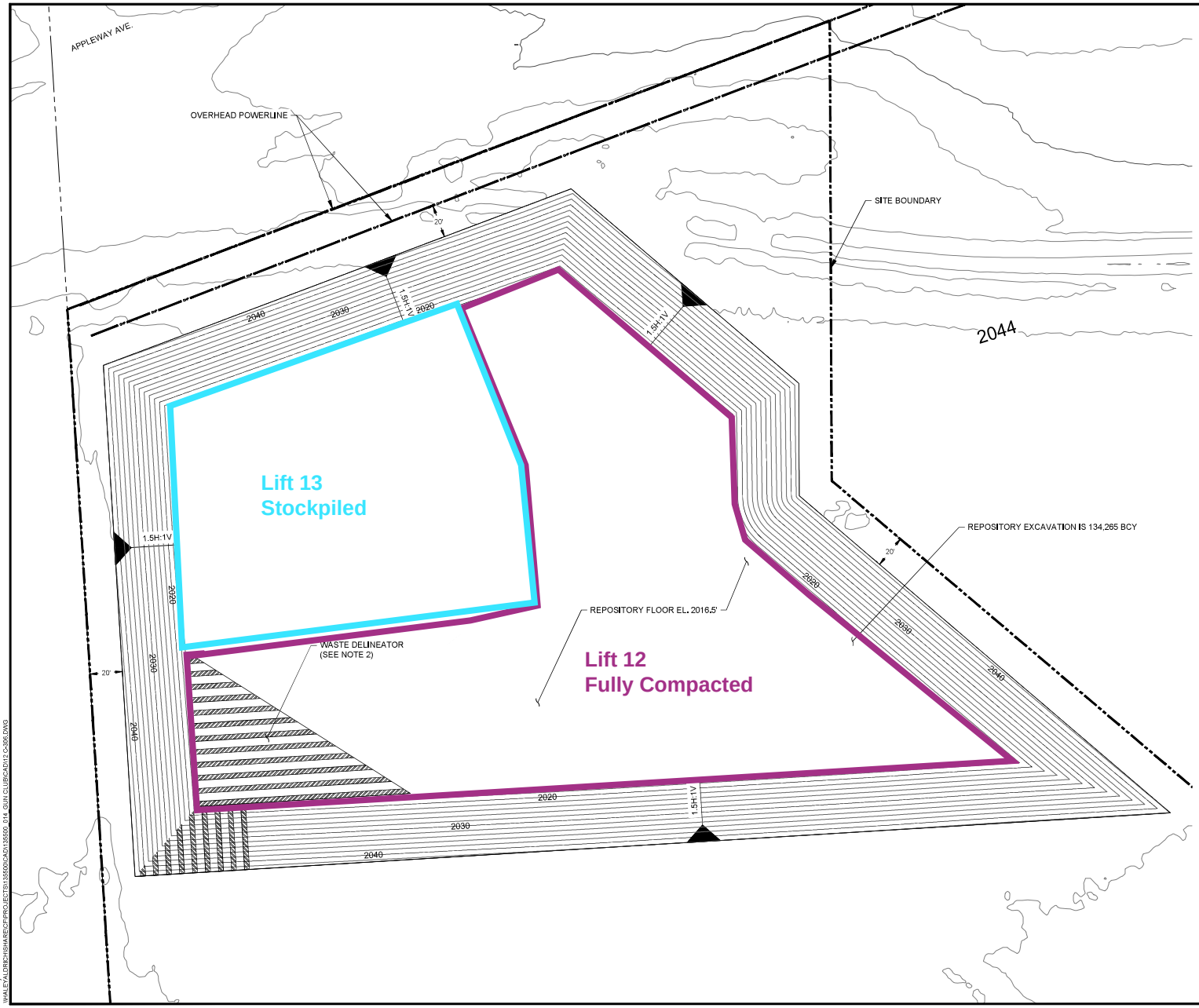
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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\\HALEYALDRIC\HSHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

HALEY & ALDRICH
505 W. RIVERSIDE AVE, SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH

Stamp:



Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	47
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	22 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Sample Units 69, 126, 138, 139, 141, 142, 143, 144, 145, and 146 were over excavated and completed today by Halme.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed re-scarifying and recompacting of previously compacted Lift No. 12 and backfilling and compacting of Lift No. 13 in the repository. As different areas of the repository were verified as compacted, Halme brought in fill to the repository for Lift No. 13 and deposited this soil in small stockpiles. By the end of the day, Lift No. 12 had been cleared as adequately compacted everywhere except the southeast side, with Lift No. 13 stockpiles only covering about half of compacted Lift No. 12 fill.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned downwind of Site work and DM 49913 was positioned upwind of Site work. The relative humidity in the morning was approximately 91% and the wind was to the north-northwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary; however, they did temporarily exceed the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to frozen soil across the Site.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 going out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The follow compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
12/1	2-4”	Pass
12/2	2-4”	Pass
12/3	2-4”	Pass
12/4	2-4”	Pass

Table 1. Compaction Testing Results		
Test Number	**Test Depth**	**Test Result**
12/5	2-4”	Pass
12/6	2-4”	Pass
12/7	2-4”	Pass
12/8	6-10”	Fail
12/9	2-4”	Pass
12/10	2-4”	Pass
12/11	2-4”	Pass
12/12	6-10”	Fail
Areas retested after additional compaction		
Retest 12/8	2-4"	Pass
Retest 12/12	2-4"	Pass

Corrective actions were taken in areas that failed to achieve passing results. Areas that failed were retested after corrective measures were taken then recorded as a passing test. Repository testing locations are attached

IV. CONFIRMATION SAMPLING:

The following confirmation samples were taken today, and samples from 21 January and 22 January were shipped via UPS today:

Table 2. Confirmation Sampling Information			
Name	**Date**	**Time**	**Analysis**
CP_142_2	01-22-2025	14:15	cPAHs
CP_145_2.5	01-22-2025	13:50	cPAHs
CP_146_2	01-22-2025	13:20	cPAHs
CP_141_4	01-22-2025	12:40	cPAHs.Pb,As
CP_144_2.5	01-22-2025	14:40	CPAHs

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 12 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	47
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	22 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-32°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.65 hours	0.85 hours	10.50 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Repository Subgrade Excavation Plan
Attachment E – Confirmation Sampling Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_22_25_CAL_DFR_47/01_22_25_CAL_DFR.docx



Photo 01. Halme Construction, Inc. (Halme) ripping frozen lift (view looking east).



Photo 02. Halme ripping frozen lift (view looking east).

Site Photographs – 22 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Halme ripping frozen lift (view looking west).



Photo 04. South contaminated stockpile; material being placed into the repository (view looking east).

Site Photographs – 22 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Downwind								
Modem 47181	1/22/2025 19:20	1/22/2025 19:30	0.02	0.02	0.021	0.024	0.024	0.0195
Modem 47181	1/22/2025 19:10	1/22/2025 19:20	0.02	0.021	0.022	0.026	0.026	0.02
Modem 47181	1/22/2025 19:00	1/22/2025 19:10	0.018	0.018	0.019	0.02	0.02	0.0175
Modem 47181	1/22/2025 18:50	1/22/2025 19:00	0.022	0.022	0.025	0.032	0.033	0.024
Modem 47181	1/22/2025 18:40	1/22/2025 18:50	0.017	0.017	0.018	0.019	0.019	0.018
Modem 47181	1/22/2025 18:30	1/22/2025 18:40	0.017	0.017	0.017	0.017	0.017	0.0165
Modem 47181	1/22/2025 18:20	1/22/2025 18:30	0.016	0.016	0.016	0.017	0.017	0.018
Modem 47181	1/22/2025 18:10	1/22/2025 18:20	0.015	0.016	0.016	0.017	0.017	0.017
Modem 47181	1/22/2025 18:00	1/22/2025 18:10	0.014	0.014	0.014	0.014	0.014	0.016
Modem 47181	1/22/2025 17:50	1/22/2025 18:00	0.014	0.014	0.015	0.015	0.015	0.0165
Modem 47181	1/22/2025 17:40	1/22/2025 17:50	0.014	0.014	0.014	0.014	0.014	0.0155
Modem 47181	1/22/2025 17:30	1/22/2025 17:40	0.014	0.014	0.014	0.014	0.014	0.0185
Modem 47181	1/22/2025 17:20	1/22/2025 17:30	0.014	0.014	0.014	0.015	0.015	0.0215
Modem 47181	1/22/2025 17:10	1/22/2025 17:20	0.013	0.013	0.014	0.014	0.014	0.0235
Modem 47181	1/22/2025 17:00	1/22/2025 17:10	0.014	0.014	0.014	0.015	0.015	0.0205
Modem 47181	1/22/2025 16:50	1/22/2025 17:00	0.014	0.014	0.014	0.015	0.015	0.0215
Modem 47181	1/22/2025 16:40	1/22/2025 16:50	0.015	0.015	0.016	0.017	0.017	0.0245
Modem 47181	1/22/2025 16:30	1/22/2025 16:40	0.015	0.015	0.016	0.016	0.016	0.0215
Modem 47181	1/22/2025 16:20	1/22/2025 16:30	0.016	0.016	0.017	0.019	0.019	0.0295
Modem 47181	1/22/2025 16:10	1/22/2025 16:20	0.016	0.016	0.017	0.017	0.017	0.0265
Modem 47181	1/22/2025 16:00	1/22/2025 16:10	0.017	0.017	0.017	0.018	0.018	0.0265
Modem 47181	1/22/2025 15:50	1/22/2025 16:00	0.018	0.018	0.018	0.018	0.018	0.0275
Modem 47181	1/22/2025 15:40	1/22/2025 15:50	0.016	0.016	0.016	0.017	0.017	0.0315
Modem 47181	1/22/2025 15:30	1/22/2025 15:40	0.019	0.019	0.021	0.023	0.023	0.029
Modem 47181	1/22/2025 15:20	1/22/2025 15:30	0.022	0.023	0.025	0.028	0.028	0.029
Modem 47181	1/22/2025 15:10	1/22/2025 15:20	0.025	0.027	0.029	0.033	0.033	0.032
Modem 47181	1/22/2025 15:00	1/22/2025 15:10	0.024	0.024	0.025	0.026	0.026	0.027
Modem 47181	1/22/2025 14:50	1/22/2025 15:00	0.026	0.027	0.027	0.028	0.028	0.029
Modem 47181	1/22/2025 14:40	1/22/2025 14:50	0.028	0.028	0.029	0.031	0.032	0.0315
Modem 47181	1/22/2025 14:30	1/22/2025 14:40	0.025	0.025	0.026	0.027	0.027	0.0305
Modem 47181	1/22/2025 14:20	1/22/2025 14:30	0.031	0.032	0.035	0.04	0.04	0.0405
Modem 47181	1/22/2025 14:10	1/22/2025 14:20	0.03	0.031	0.033	0.036	0.036	0.049
Modem 47181	1/22/2025 14:00	1/22/2025 14:10	0.03	0.03	0.032	0.035	0.035	0.034
Modem 47181	1/22/2025 13:50	1/22/2025 14:00	0.032	0.033	0.034	0.037	0.037	0.0345
Modem 47181	1/22/2025 13:40	1/22/2025 13:50	0.037	0.038	0.041	0.046	0.046	0.038
Modem 47181	1/22/2025 13:30	1/22/2025 13:40	0.03	0.031	0.032	0.035	0.035	0.0285
Modem 47181	1/22/2025 13:20	1/22/2025 13:30	0.028	0.029	0.03	0.03	0.03	0.0265
Modem 47181	1/22/2025 13:10	1/22/2025 13:20	0.029	0.029	0.03	0.031	0.031	0.0275
Modem 47181	1/22/2025 13:00	1/22/2025 13:10	0.027	0.027	0.027	0.028	0.028	0.026
Modem 47181	1/22/2025 12:50	1/22/2025 13:00	0.028	0.028	0.029	0.03	0.03	0.0285
Modem 47181	1/22/2025 12:40	1/22/2025 12:50	0.028	0.029	0.029	0.031	0.031	0.0445
Modem 47181	1/22/2025 12:30	1/22/2025 12:40	0.031	0.032	0.033	0.034	0.034	0.0275
Modem 47181	1/22/2025 12:20	1/22/2025 12:30	0.035	0.036	0.038	0.041	0.041	0.0295
Modem 47181	1/22/2025 12:10	1/22/2025 12:20	0.042	0.044	0.05	0.062	0.062	
Modem 47181	1/22/2025 12:00	1/22/2025 12:10	0.03	0.031	0.032	0.033	0.033	
Modem 47181	1/22/2025 11:50	1/22/2025 12:00	0.031	0.031	0.032	0.032	0.032	
Modem 47181	1/22/2025 11:40	1/22/2025 11:50	0.028	0.029	0.029	0.03	0.03	

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 47181	1/22/2025 11:30	1/22/2025 11:40	0.021	0.021	0.021	0.022	0.022	
Modem 47181	1/22/2025 11:20	1/22/2025 11:30	0.022	0.022	0.022	0.023	0.023	
Modem 47181	1/22/2025 11:10	1/22/2025 11:20	0.021	0.022	0.023	0.024	0.024	
Modem 47181	1/22/2025 11:00	1/22/2025 11:10	0.022	0.022	0.023	0.024	0.024	
Modem 47181	1/22/2025 10:50	1/22/2025 11:00	0.023	0.024	0.025	0.027	0.027	
Modem 47181	1/22/2025 10:40	1/22/2025 10:50	0.053	0.053	0.055	0.058	0.058	
Modem 47181	1/22/2025 10:30	1/22/2025 10:40	0.018	0.019	0.019	0.02	0.021	
Modem 47181	1/22/2025 10:20	1/22/2025 10:30	0.017	0.017	0.017	0.018	0.018	
Upwind								
Modem 49913	1/22/2025 19:10	1/22/2025 19:20	0.015	0.016	0.016	0.017	0.017	0.013
Modem 49913	1/22/2025 19:00	1/22/2025 19:10	0.015	0.015	0.016	0.016	0.016	0.0135
Modem 49913	1/22/2025 18:50	1/22/2025 19:00	0.014	0.014	0.015	0.015	0.015	0.0135
Modem 49913	1/22/2025 18:40	1/22/2025 18:50	0.013	0.014	0.014	0.015	0.015	0.013
Modem 49913	1/22/2025 18:30	1/22/2025 18:40	0.013	0.013	0.014	0.014	0.014	0.018
Modem 49913	1/22/2025 18:20	1/22/2025 18:30	0.013	0.013	0.013	0.014	0.014	0.0135
Modem 49913	1/22/2025 18:10	1/22/2025 18:20	0.011	0.011	0.011	0.011	0.011	0.011
Modem 49913	1/22/2025 18:00	1/22/2025 18:10	0.011	0.011	0.012	0.012	0.012	0.013
Modem 49913	1/22/2025 17:50	1/22/2025 18:00	0.01	0.01	0.011	0.011	0.011	0.013
Modem 49913	1/22/2025 17:40	1/22/2025 17:50	0.01	0.01	0.01	0.01	0.01	0.011
Modem 49913	1/22/2025 17:30	1/22/2025 17:40	0.009	0.009	0.009	0.009	0.009	0.0115
Modem 49913	1/22/2025 17:20	1/22/2025 17:30	0.007	0.007	0.007	0.008	0.008	0.0135
Modem 49913	1/22/2025 17:10	1/22/2025 17:20	0.008	0.008	0.008	0.009	0.009	0.0135
Modem 49913	1/22/2025 17:00	1/22/2025 17:10	0.01	0.01	0.01	0.011	0.011	0.017
Modem 49913	1/22/2025 16:50	1/22/2025 17:00	0.01	0.011	0.011	0.012	0.012	0.017
Modem 49913	1/22/2025 16:40	1/22/2025 16:50	0.01	0.011	0.011	0.011	0.011	0.0165
Modem 49913	1/22/2025 16:30	1/22/2025 16:40	0.014	0.015	0.016	0.021	0.022	0.0245
Modem 49913	1/22/2025 16:20	1/22/2025 16:30	0.012	0.012	0.012	0.013	0.013	0.0195
Modem 49913	1/22/2025 16:10	1/22/2025 16:20	0.011	0.011	0.011	0.011	0.011	0.0195
Modem 49913	1/22/2025 16:00	1/22/2025 16:10	0.012	0.013	0.013	0.014	0.014	0.022
Modem 49913	1/22/2025 15:50	1/22/2025 16:00	0.014	0.014	0.015	0.015	0.015	0.0225
Modem 49913	1/22/2025 15:40	1/22/2025 15:50	0.011	0.011	0.011	0.012	0.012	0.0215
Modem 49913	1/22/2025 15:30	1/22/2025 15:40	0.014	0.014	0.014	0.014	0.014	0.022
Modem 49913	1/22/2025 15:20	1/22/2025 15:30	0.018	0.018	0.019	0.019	0.019	0.0235
Modem 49913	1/22/2025 15:10	1/22/2025 15:20	0.017	0.018	0.018	0.018	0.018	0.0235
Modem 49913	1/22/2025 15:00	1/22/2025 15:10	0.022	0.022	0.022	0.023	0.023	0.0245
Modem 49913	1/22/2025 14:50	1/22/2025 15:00	0.021	0.022	0.022	0.022	0.022	0.0245
Modem 49913	1/22/2025 14:40	1/22/2025 14:50	0.021	0.021	0.021	0.022	0.022	0.0245
Modem 49913	1/22/2025 14:30	1/22/2025 14:40	0.026	0.026	0.027	0.027	0.027	0.0285
Modem 49913	1/22/2025 14:20	1/22/2025 14:30	0.024	0.026	0.025	0.026	0.026	0.0285
Modem 49913	1/22/2025 14:10	1/22/2025 14:20	0.026	0.027	0.027	0.028	0.028	0.0305
Modem 49913	1/22/2025 14:00	1/22/2025 14:10	0.028	0.029	0.029	0.03	0.03	0.03
Modem 49913	1/22/2025 13:50	1/22/2025 14:00	0.029	0.029	0.029	0.03	0.03	0.032
Modem 49913	1/22/2025 13:40	1/22/2025 13:50	0.029	0.03	0.03	0.031	0.031	0.03
Modem 49913	1/22/2025 13:30	1/22/2025 13:40	0.029	0.029	0.03	0.03	0.03	0.032
Modem 49913	1/22/2025 13:20	1/22/2025 13:30	0.027	0.027	0.027	0.028	0.028	0.0285
Modem 49913	1/22/2025 13:10	1/22/2025 13:20	0.027	0.028	0.028	0.029	0.029	0.028
Modem 49913	1/22/2025 13:00	1/22/2025 13:10	0.025	0.026	0.026	0.026	0.026	0.0275
Modem 49913	1/22/2025 12:50	1/22/2025 13:00	0.026	0.026	0.027	0.027	0.027	0.035

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/22/2025 12:40	1/22/2025 12:50	0.027	0.027	0.027	0.027	0.027	0.0275
Modem 49913	1/22/2025 12:30	1/22/2025 12:40	0.029	0.03	0.03	0.03	0.03	0.026
Modem 49913	1/22/2025 12:20	1/22/2025 12:30	0.031	0.031	0.031	0.031	0.031	0.0285
Modem 49913	1/22/2025 12:10	1/22/2025 12:20	0.032	0.033	0.033	0.033	0.033	0.0205
Modem 49913	1/22/2025 12:00	1/22/2025 12:10	0.03	0.03	0.03	0.03	0.03	
Modem 49913	1/22/2025 11:50	1/22/2025 12:00	0.031	0.031	0.032	0.034	0.034	
Modem 49913	1/22/2025 11:40	1/22/2025 11:50	0.028	0.029	0.029	0.029	0.029	
Modem 49913	1/22/2025 11:30	1/22/2025 11:40	0.033	0.033	0.034	0.034	0.034	
Modem 49913	1/22/2025 11:20	1/22/2025 11:30	0.027	0.027	0.028	0.028	0.029	
Modem 49913	1/22/2025 11:10	1/22/2025 11:20	0.025	0.025	0.025	0.026	0.027	
Modem 49913	1/22/2025 11:00	1/22/2025 11:10	0.028	0.028	0.028	0.029	0.029	
Modem 49913	1/22/2025 10:50	1/22/2025 11:00	0.042	0.042	0.043	0.043	0.043	
Modem 49913	1/22/2025 10:40	1/22/2025 10:50	0.026	0.026	0.027	0.028	0.028	
Modem 49913	1/22/2025 10:30	1/22/2025 10:40	0.02	0.02	0.021	0.022	0.022	
Modem 49913	1/22/2025 10:20	1/22/2025 10:30	0.025	0.026	0.026	0.026	0.026	
Modem 49913	1/22/2025 10:10	1/22/2025 10:20	0.005	0.005	0.006	0.008	0.008	

SAMPLE CHAIN OF CUSTODY

Report To Breeyn Greer
Company Haley + Aldrich
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*)

PROJECT NAME: CVSD Gun Club
PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

Page # 1 of 2

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TSM Metals	cPAHs project specific list	PB EPA 6020	AS EPA 6020		Notes
	CL					ANALYSES REQUESTED											
CP_137_2.5	~~1-21-25~~	1-21-25	12:20	soil	1							X	X				Hold 1
CP_136_2.5			13:50									X	X				month
CP_135_2.5			14:45									X	X				project specific
CP_130_2.5			12:25									X	X				list
CP_120_3			13:10									X	X				
CP_128_3			14:00									X	X				
CP_142_2		1-22-25	14:15									X	X				
CP_145_2.5			1350									X	X				
CP_146_2			13:20									X	X				
C_141_4			12:40									X	X	X	X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Cameron Lukey	H+A	~~1-21-25~~ CL	~~13~~ CL
Received by:			1-22-25	15:30
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

Report To Breeyn Greer
Company Haley + Aldrich
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*)

PROJECT NAME: CVSD Gun Club
PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

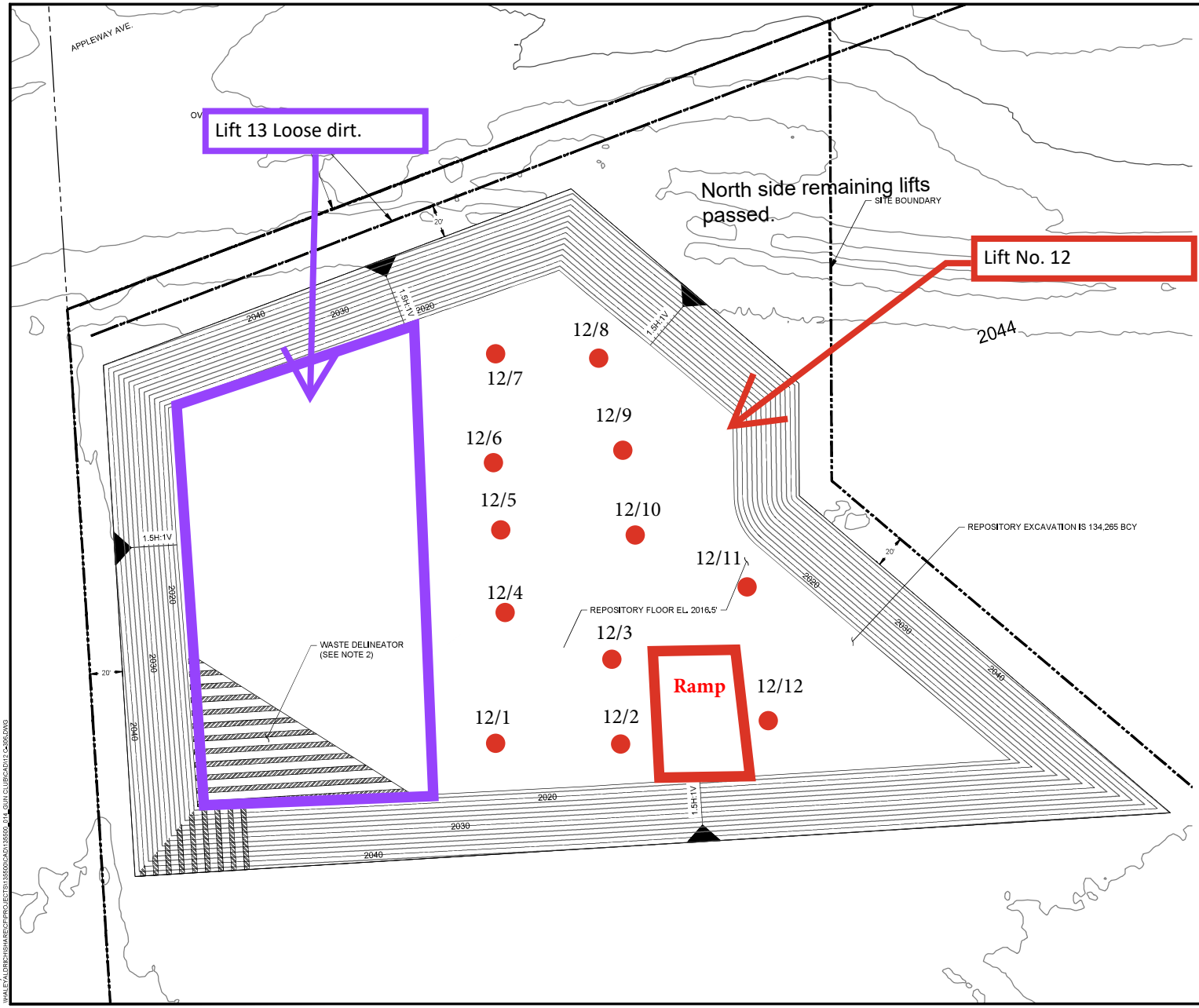
TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Isn processing	cPAHs project specific list				Notes
						ANALYSES REQUESTED											
CP_144_2.5		1-22-25	1440	Soil	1							X	X				Hold 1 month project specific list

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Cameron Luckey	H+A	1-22-25	15:30
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

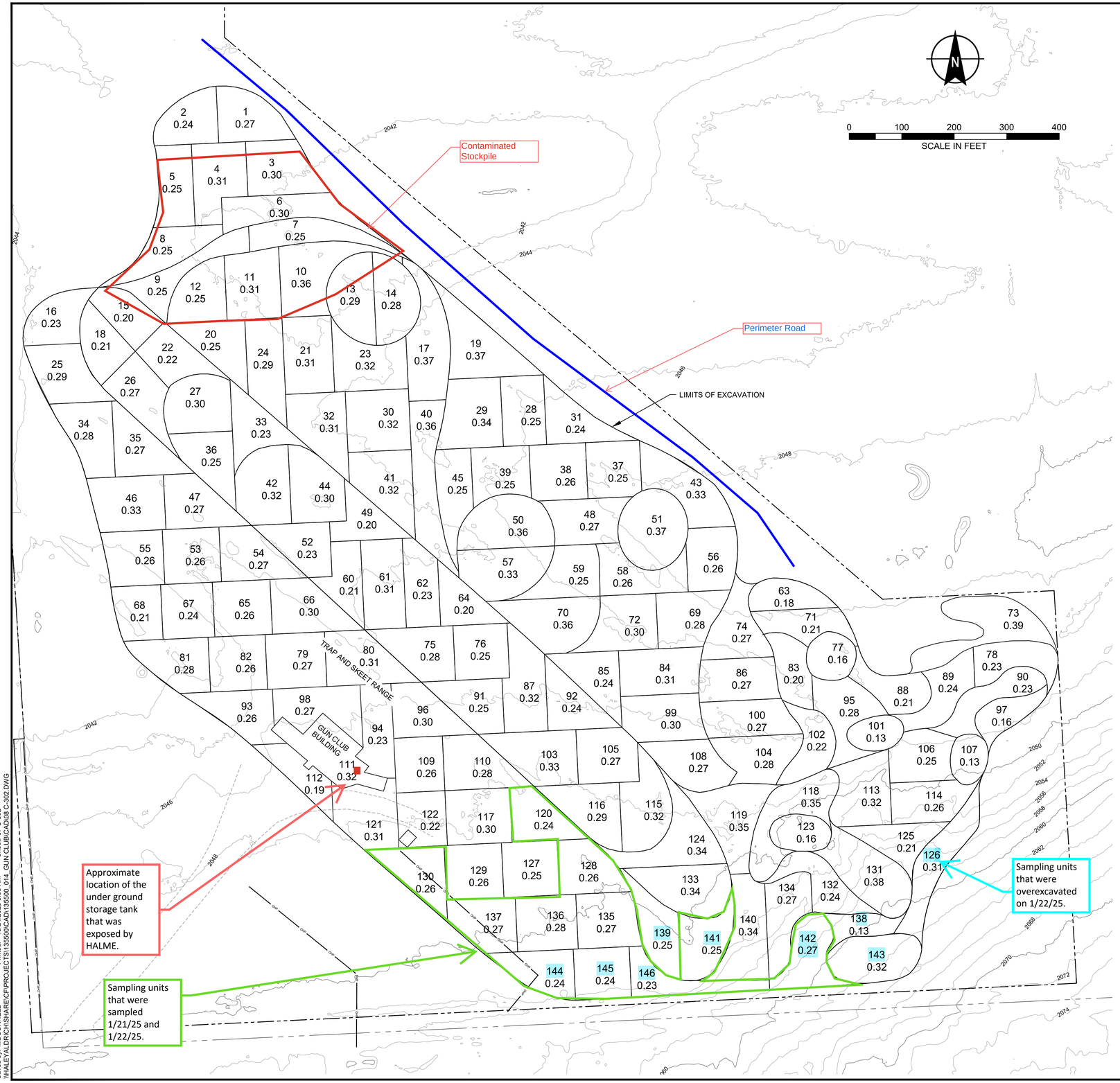
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

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NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
22 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
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1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	48
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	23 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-32°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No units were over excavated by Halme today.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of the remaining uncovered portions of Lift No. 12 and backfilling of Lift No. 13 in the repository. Portions of Lift No. 12 that had been previously compacted were scarified and recompacted. As different areas of the repository were passed for compaction, Halme brought in fill to the repository for Lift No. 13 and deposited this soil in small stockpiles. By the end of the day, Lift No. 12 had been cleared as adequately compacted and fully covered by Lift No. 13 fill.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 88% and the wind was to the east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, while they temporarily exceeded the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to Halme operating a water truck in the haul areas periodically throughout the day.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 going out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The follow compaction tests were performed today:

Table 1. Compaction Test Results

Test Number	Test Depth	Test Result
12/1	2-4”	Pass
12/2	2-4”	Pass
12/3	2-4”	Pass
12/4	2-4”	Pass

Table 1. Compaction Test Results

Test Number	Test Depth	Test Result
12/5	2-4”	Pass
12/6	2-4”	Pass
12/7	2-4”	Pass
12/8	2-4”	Pass
13/1	2-4"	Pass
13/2	2-4”	Pass
13/4	2-4”	Pass
13/5	2-4”	Pass
13/6	2-4"	Pass
13/7	2-4”	Pass
13/8	2-4”	Pass
13/9	2-4”	Pass
13/10	>10”	Fail
13/11	2-4”	Pass
13/12 (retest location for 13/11)	2-4”	Pass

Corrective actions were taken in areas that failed to achieve passing results. Areas that failed were retested after corrective measures were taken then recorded as a passing test. Repository testing locations are attached.

IV. CONFIRMATION SAMPLING:

The following confirmation samples were taken and shipped via UPS today:

Table 2. Confirmation Sampling Information

Name	Date	Time	Analysis
C_139_3	01-23-2025	14:45	cPAHs, Pb, As
CP_126_3	01-23-2025	12:45	cPAHs
C_138_2	01-23-2025	12:15	cPAHs, Pb
C_143_3	01-23-2025	15:30	cPAHs

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	48
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	23 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-32°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.65 hours	0.85 hours	10.5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Repository Subgrade Excavation Plan
Attachment E – Map of Unit 32



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_23_25_CAL_DFR_48/01_23_25_CAL_DFR.docx



Photo 01. Repository backfill progress at the beginning of the day (view looking southeast).



Photo 02. Halme Construction, Inc. (Halme) ripping frozen lift. One pass north to south was not enough to effectively break up frozen material. Additional passes east to west were required (view looking north).

Site Photographs – 23 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Trench located within unit 32 (view looking west).



Photo 04. Repository backfill progress at the end of the day (view looking east).

Site Photographs – 23 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Upwind								
Modem 47181	1/23/2025 18:50	1/23/2025 19:00	0.021	0.022	0.024	0.03	0.031	0.025
Modem 47181	1/23/2025 18:40	1/23/2025 18:50	0.023	0.024	0.026	0.031	0.032	0.026
Modem 47181	1/23/2025 18:30	1/23/2025 18:40	0.02	0.021	0.022	0.026	0.026	0.0205
Modem 47181	1/23/2025 18:20	1/23/2025 18:30	0.019	0.019	0.021	0.023	0.023	0.019
Modem 47181	1/23/2025 18:10	1/23/2025 18:20	0.019	0.02	0.022	0.024	0.025	0.0205
Modem 47181	1/23/2025 18:00	1/23/2025 18:10	0.019	0.019	0.021	0.023	0.024	0.0205
Modem 47181	1/23/2025 17:50	1/23/2025 18:00	0.017	0.018	0.018	0.02	0.021	0.0185
Modem 47181	1/23/2025 17:40	1/23/2025 17:50	0.018	0.018	0.019	0.021	0.021	0.02
Modem 47181	1/23/2025 17:30	1/23/2025 17:40	0.018	0.019	0.02	0.022	0.022	0.021
Modem 47181	1/23/2025 17:20	1/23/2025 17:30	0.023	0.024	0.026	0.032	0.032	0.0275
Modem 47181	1/23/2025 17:10	1/23/2025 17:20	0.018	0.019	0.02	0.021	0.021	0.021
Modem 47181	1/23/2025 17:00	1/23/2025 17:10	0.017	0.017	0.018	0.02	0.02	0.02
Modem 47181	1/23/2025 16:50	1/23/2025 17:00	0.017	0.017	0.018	0.019	0.019	0.02
Modem 47181	1/23/2025 16:40	1/23/2025 16:50	0.016	0.017	0.017	0.019	0.02	0.0195
Modem 47181	1/23/2025 16:30	1/23/2025 16:40	0.014	0.014	0.014	0.015	0.015	0.0175
Modem 47181	1/23/2025 16:20	1/23/2025 16:30	0.013	0.014	0.014	0.015	0.015	0.018
Modem 47181	1/23/2025 16:10	1/23/2025 16:20	0.014	0.015	0.015	0.016	0.016	0.018
Modem 47181	1/23/2025 16:00	1/23/2025 16:10	0.015	0.015	0.015	0.017	0.017	0.018
Modem 47181	1/23/2025 15:50	1/23/2025 16:00	0.014	0.015	0.015	0.016	0.016	0.018
Modem 47181	1/23/2025 15:40	1/23/2025 15:50	0.017	0.017	0.018	0.018	0.019	0.019
Modem 47181	1/23/2025 15:30	1/23/2025 15:40	0.018	0.018	0.019	0.02	0.02	0.02
Modem 47181	1/23/2025 15:20	1/23/2025 15:30	0.02	0.02	0.021	0.023	0.023	0.022
Modem 47181	1/23/2025 15:10	1/23/2025 15:20	0.019	0.019	0.02	0.021	0.021	0.0215
Modem 47181	1/23/2025 15:00	1/23/2025 15:10	0.019	0.019	0.019	0.02	0.02	0.022
Modem 47181	1/23/2025 14:50	1/23/2025 15:00	0.019	0.019	0.02	0.021	0.021	0.0215
Modem 47181	1/23/2025 14:40	1/23/2025 14:50	0.018	0.018	0.018	0.019	0.019	0.021
Modem 47181	1/23/2025 14:30	1/23/2025 14:40	0.018	0.019	0.019	0.02	0.02	0.022
Modem 47181	1/23/2025 14:20	1/23/2025 14:30	0.019	0.019	0.02	0.021	0.021	0.022
Modem 47181	1/23/2025 14:10	1/23/2025 14:20	0.019	0.019	0.019	0.02	0.02	0.0285
Modem 47181	1/23/2025 14:00	1/23/2025 14:10	0.018	0.019	0.019	0.019	0.019	0.0225
Modem 47181	1/23/2025 13:50	1/23/2025 14:00	0.019	0.019	0.019	0.02	0.02	0.024
Modem 47181	1/23/2025 13:40	1/23/2025 13:50	0.018	0.018	0.018	0.019	0.019	0.024
Modem 47181	1/23/2025 13:30	1/23/2025 13:40	0.018	0.019	0.019	0.02	0.02	0.024
Modem 47181	1/23/2025 13:20	1/23/2025 13:30	0.02	0.02	0.021	0.021	0.021	0.026
Modem 47181	1/23/2025 13:10	1/23/2025 13:20	0.021	0.021	0.021	0.022	0.022	0.0285
Modem 47181	1/23/2025 13:00	1/23/2025 13:10	0.022	0.023	0.023	0.024	0.024	0.012
Modem 47181	1/23/2025 12:50	1/23/2025 13:00	0.021	0.021	0.022	0.022	0.022	0.0315
Modem 47181	1/23/2025 12:40	1/23/2025 12:50	0.022	0.022	0.022	0.023	0.023	0.0315
Modem 47181	1/23/2025 12:30	1/23/2025 12:40	0.022	0.022	0.023	0.024	0.024	0.0285
Modem 47181	1/23/2025 12:20	1/23/2025 12:30	0.022	0.022	0.022	0.023	0.023	
Modem 47181	1/23/2025 12:10	1/23/2025 12:20	0.027	0.028	0.031	0.037	0.037	
Modem 47181	1/23/2025 12:00	1/23/2025 12:10	0.024	0.024	0.025	0.026	0.026	
Modem 47181	1/23/2025 11:50	1/23/2025 12:00	0.026	0.026	0.027	0.028	0.028	
Modem 47181	1/23/2025 11:40	1/23/2025 11:50	0.027	0.027	0.028	0.029	0.029	
Modem 47181	1/23/2025 11:30	1/23/2025 11:40	0.027	0.027	0.028	0.028	0.028	
Modem 47181	1/23/2025 11:20	1/23/2025 11:30	0.029	0.029	0.03	0.03	0.031	
Modem 47181	1/23/2025 11:10	1/23/2025 11:20	0.034	0.034	0.035	0.035	0.035	
Modem 47181	1/23/2025 11:00	1/23/2025 11:10	0.028	0.03	0.033	0.039	0	
Modem 47181	1/23/2025 10:50	1/23/2025 11:00	0.03	0.031	0.034	0.041	0.041	
Modem 47181	1/23/2025 10:40	1/23/2025 10:50	0.029	0.03	0.034	0.04	0.04	
Modem 47181	1/23/2025 10:30	1/23/2025 10:40	0.027	0.028	0.03	0.032	0.033	
Downwind								
Modem 49913	1/23/2025 18:50	1/23/2025 19:00	0.02	0.021	0.022	0.024	0.024	0.0225

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/23/2025 18:40	1/23/2025 18:50	0.017	0.017	0.019	0.021	0.021	0.0215
Modem 49913	1/23/2025 18:30	1/23/2025 18:40	0.017	0.018	0.019	0.023	0.023	0.018
Modem 49913	1/23/2025 18:20	1/23/2025 18:30	0.018	0.018	0.02	0.023	0.023	0.018
Modem 49913	1/23/2025 18:10	1/23/2025 18:20	0.019	0.02	0.022	0.029	0.029	0.0265
Modem 49913	1/23/2025 18:00	1/23/2025 18:10	0.017	0.018	0.019	0.022	0.022	0.018
Modem 49913	1/23/2025 17:50	1/23/2025 18:00	0.017	0.017	0.019	0.022	0.022	0.0185
Modem 49913	1/23/2025 17:40	1/23/2025 17:50	0.016	0.017	0.017	0.019	0.02	0.0195
Modem 49913	1/23/2025 17:30	1/23/2025 17:40	0.017	0.018	0.019	0.023	0.024	0.0215
Modem 49913	1/23/2025 17:20	1/23/2025 17:30	0.019	0.02	0.021	0.025	0.025	0.0245
Modem 49913	1/23/2025 17:10	1/23/2025 17:20	0.016	0.017	0.018	0.021	0.022	0.0295
Modem 49913	1/23/2025 17:00	1/23/2025 17:10	0.015	0.016	0.016	0.019	0.019	0.0195
Modem 49913	1/23/2025 16:50	1/23/2025 17:00	0.016	0.017	0.018	0.021	0.021	0.0205
Modem 49913	1/23/2025 16:40	1/23/2025 16:50	0.016	0.016	0.018	0.022	0.022	0.02
Modem 49913	1/23/2025 16:30	1/23/2025 16:40	0.011	0.011	0.012	0.013	0.013	0.016
Modem 49913	1/23/2025 16:20	1/23/2025 16:30	0.012	0.012	0.013	0.013	0.013	0.015
Modem 49913	1/23/2025 16:10	1/23/2025 16:20	0.015	0.016	0.018	0.023	0.024	0.0205
Modem 49913	1/23/2025 16:00	1/23/2025 16:10	0.013	0.013	0.014	0.014	0.014	0.0155
Modem 49913	1/23/2025 15:50	1/23/2025 16:00	0.014	0.014	0.014	0.015	0.015	0.0155
Modem 49913	1/23/2025 15:40	1/23/2025 15:50	0.015	0.015	0.016	0.018	0.019	0.018
Modem 49913	1/23/2025 15:30	1/23/2025 15:40	0.017	0.017	0.018	0.019	0.019	0.018
Modem 49913	1/23/2025 15:20	1/23/2025 15:30	0.019	0.019	0.02	0.023	0.024	0.021
Modem 49913	1/23/2025 15:10	1/23/2025 15:20	0.024	0.025	0.028	0.037	0.037	0.0285
Modem 49913	1/23/2025 15:00	1/23/2025 15:10	0.018	0.018	0.019	0.02	0.02	0.02
Modem 49913	1/23/2025 14:50	1/23/2025 15:00	0.017	0.018	0.018	0.02	0.02	0.0215
Modem 49913	1/23/2025 14:40	1/23/2025 14:50	0.016	0.016	0.017	0.018	0.018	0.018
Modem 49913	1/23/2025 14:30	1/23/2025 14:40	0.018	0.018	0.018	0.019	0.019	0.022
Modem 49913	1/23/2025 14:20	1/23/2025 14:30	0.016	0.016	0.017	0.017	0.017	0.018
Modem 49913	1/23/2025 14:10	1/23/2025 14:20	0.016	0.016	0.016	0.017	0.017	0.019
Modem 49913	1/23/2025 14:00	1/23/2025 14:10	0.016	0.016	0.016	0.017	0.017	0.0215
Modem 49913	1/23/2025 13:50	1/23/2025 14:00	0.015	0.016	0.016	0.016	0.016	0.0215
Modem 49913	1/23/2025 13:40	1/23/2025 13:50	0.016	0.016	0.016	0.017	0.017	0.023
Modem 49913	1/23/2025 13:30	1/23/2025 13:40	0.017	0.017	0.017	0.017	0.017	0.0235
Modem 49913	1/23/2025 13:20	1/23/2025 13:30	0.017	0.017	0.017	0.018	0.018	0.023
Modem 49913	1/23/2025 13:10	1/23/2025 13:20	0.019	0.019	0.02	0.02	0.02	0.022
Modem 49913	1/23/2025 13:00	1/23/2025 13:10	0.019	0.019	0.019	0.02	0.02	0.022
Modem 49913	1/23/2025 12:50	1/23/2025 13:00	0.02	0.02	0.021	0.023	0.023	0.024
Modem 49913	1/23/2025 12:40	1/23/2025 12:50	0.017	0.018	0.018	0.018	0.018	0.022
Modem 49913	1/23/2025 12:30	1/23/2025 12:40	0.021	0.021	0.022	0.025	0.025	0.026
Modem 49913	1/23/2025 12:20	1/23/2025 12:30	0.018	0.018	0.018	0.019	0.019	
Modem 49913	1/23/2025 12:10	1/23/2025 12:20	0.02	0.02	0.021	0.021	0.021	
Modem 49913	1/23/2025 12:00	1/23/2025 12:10	0.024	0.025	0.025	0.026	0.026	
Modem 49913	1/23/2025 11:50	1/23/2025 12:00	0.025	0.025	0.026	0.027	0.027	
Modem 49913	1/23/2025 11:40	1/23/2025 11:50	0.026	0.027	0.028	0.029	0.029	
Modem 49913	1/23/2025 11:30	1/23/2025 11:40	0.027	0.027	0.028	0.03	0.03	
Modem 49913	1/23/2025 11:20	1/23/2025 11:30	0.024	0.024	0.026	0.028	0.028	
Modem 49913	1/23/2025 11:10	1/23/2025 11:20	0.022	0.022	0.023	0.024	0.024	
Modem 49913	1/23/2025 11:00	1/23/2025 11:10	0.023	0.023	0.023	0.024	0.024	
Modem 49913	1/23/2025 10:50	1/23/2025 11:00	0.024	0.024	0.025	0.025	0.025	
Modem 49913	1/23/2025 10:40	1/23/2025 10:50	0.025	0.025	0.025	0.026	0.026	
Modem 49913	1/23/2025 10:30	1/23/2025 10:40	0.025	0.025	0.026	0.027	0.027	

501335

SAMPLE CHAIN OF CUSTODY

01/24/25

ISM/FI 1 1

Page # ____ of ____

Report To Breeyn Greer

Company

Address 505 West Riverside Ave. Ste 450

City, State, ZIP Spokane, WA 99201

Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*) Abdelghani Sebbar

PROJECT NAME: CVSD Gun Club

PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL

Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

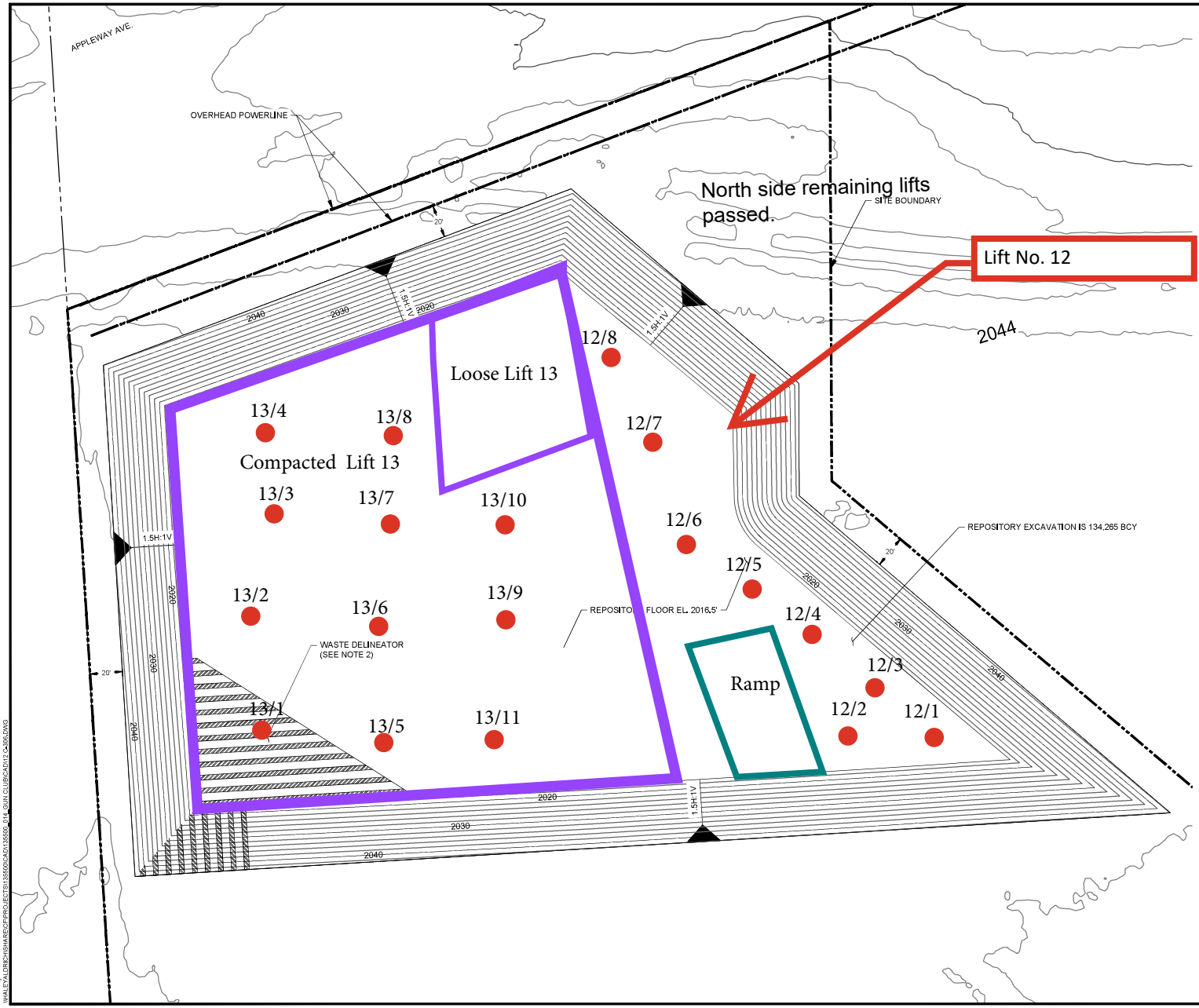
SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars AP 01/24	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	cPAHs	PB	AS			Notes
C-139-3	01	1-23-25	1445	Soil	1							X	X	X			
CP-126-3	02	1-23-25	1245	"	"							X					
C-138-2	03	1-23-25	1215	"	"							X	X				
C-143-3	04	1-22-25	1530	"	"							X					

Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Abdelghani Sebbar	Abdelghani Sebbar	H&A	1-23-24	1545
Received by: Nhan Pham	Nhan Pham	FBI	01/24/25	1252
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

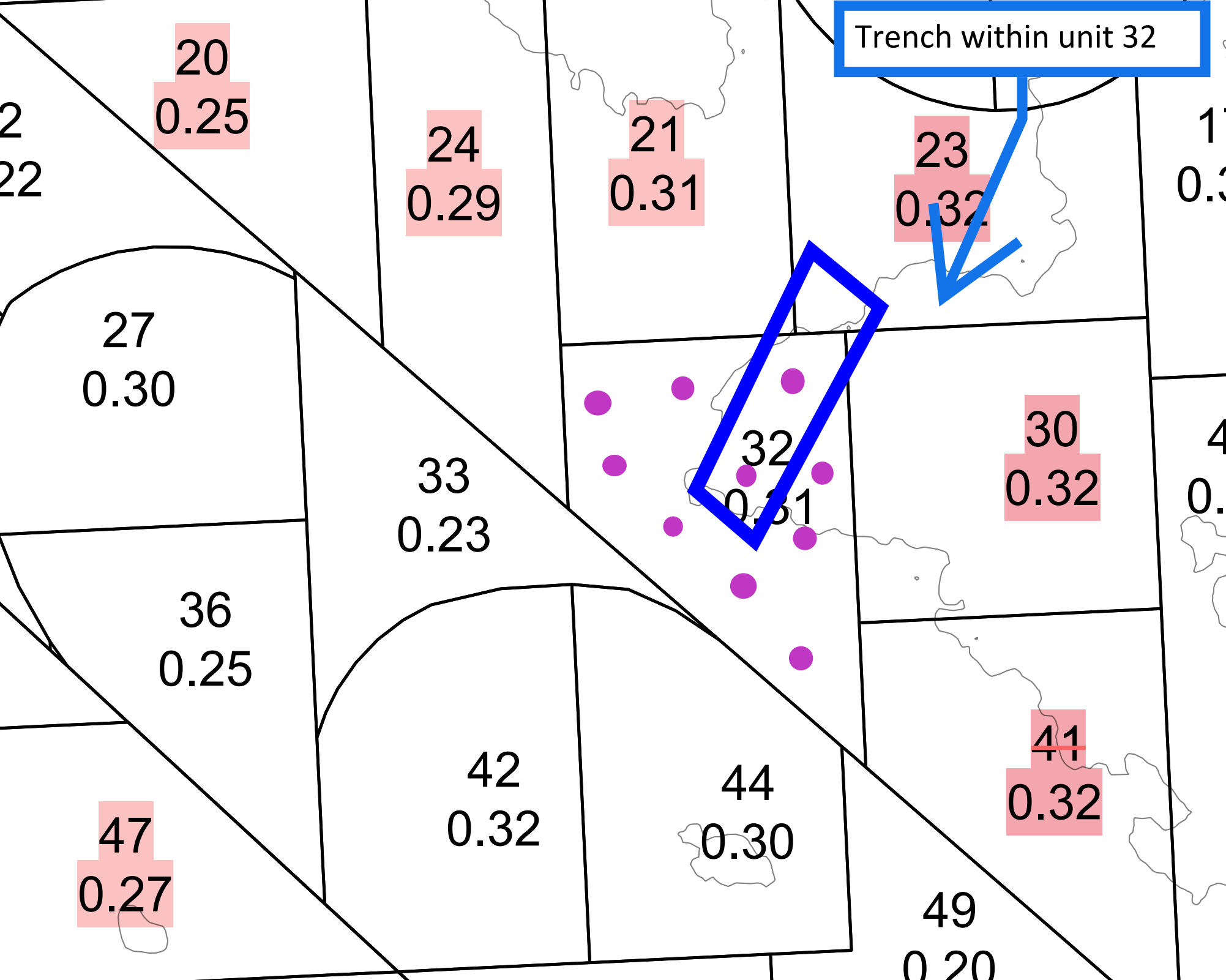
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
\\HALEYALDRICH\SHARE\CPROJECTS\135000\CAD\135000_CVSD_GUN CLUB\CAD\12 C-306.DWG


Trench within unit 32
20
0.25
24
0.29
21
0.31
23
0.32
27
0.30
33
0.23
32
0.31
30
0.32
36
0.25
42
0.32
44
0.30
41
0.32
47
0.27
49

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	49
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	24 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Units over excavated today by Halme:77, 78, 83, 88, 97, 100, and 107.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of the remaining uncovered portions of Lift No. 13 and backfilling of Lift No. 14 in the repository. However, Lift No. 14 was not compaction tested today. Halme brought in fill to the repository for Lift No. 14 and deposited this soil in small stockpiles. By the end of the day, Lift No. 13 had been cleared as adequately compacted.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 86% and the wind was to the east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, but did they temporarily exceed the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to Halme operating a water truck in the haul areas periodically throughout the day.

III. COMPACTION TESTING

Due to the Troxler E-Gauge 4590 being out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The following compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
13/1	2-4”	Pass
13/2	2-4”	Pass
13/3	2-4”	Pass
13/4	2-4”	Pass

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
13/5	2-4”	Pass
13/6	6-8”	Fail
13/7	2-4”	Pass
13/8	2-4”	Pass
13/9	2-4”	Pass
13/10	2-4”	Pass
13/11	2-4”	Pass
13/12	2-4”	Pass
13/13	2-4”	Pass
13/14	2-4”	Pass
13/15	2-4”	Pass
13/16	2-4”	Pass
13/17	2-4"	Pass

Corrective actions were taken in areas that failed to achieve passing results. Areas that failed were retested after corrective measures were taken then recorded as a passing test. Repository testing locations are attached

IV. CONFIRMATION SAMPLING:

Table 2. Confirmation Sampling Information

Sample Name	Sample Date	Sample Time	Analysis
C_83_2	01-24-2025	12:25	cPAHs,Pb,As
C_100_2	01-24-2025	11:40	cPAHs
C_77_3.5	01-24-2025	12:00	cPAHs
C_78_2	01-24-2025	12:50	cPAHs

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	49
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	24 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	9.50 hours	1.00 hours	10.5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Repository Subgrade Excavation Plan
Attachment E – Confirmation Sampling Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_24_25_CAL_DFR_49/01_24_25_CAL_DFR.docx



Photo 01. Repository backfill progress at the end of the excavation day (view looking northwest).



Photo 02. Lift No. 14 placed on the west side of the repository (view looking west).

Site Photographs – 24 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Scarifying of the repository (view looking northeast).



Photo 04. Over excavation progress of listed units (view looking southeast).

Site Photographs – 24 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Upwind								
Modem 47181	1/24/2025 17:30	1/24/2025 17:40	0.009	0.01	0.01	0.011	0.011	0.011
Modem 47181	1/24/2025 17:20	1/24/2025 17:30	0.01	0.011	0.011	0.012	0.012	0.011
Modem 47181	1/24/2025 17:10	1/24/2025 17:20	0.012	0.012	0.013	0.014	0.014	0.012
Modem 47181	1/24/2025 17:00	1/24/2025 17:10	0.013	0.013	0.014	0.016	0.016	0.013
Modem 47181	1/24/2025 16:50	1/24/2025 17:00	0.011	0.011	0.012	0.013	0.013	0.012
Modem 47181	1/24/2025 16:40	1/24/2025 16:50	0.012	0.012	0.012	0.014	0.014	0.012
Modem 47181	1/24/2025 16:30	1/24/2025 16:40	0.01	0.01	0.011	0.011	0.011	0.011
Modem 47181	1/24/2025 16:20	1/24/2025 16:30	0.01	0.01	0.011	0.011	0.011	0.011
Modem 47181	1/24/2025 16:10	1/24/2025 16:20	0.008	0.008	0.009	0.009	0.009	0.010
Modem 47181	1/24/2025 16:00	1/24/2025 16:10	0.009	0.009	0.009	0.01	0.011	0.011
Modem 47181	1/24/2025 15:50	1/24/2025 16:00	0.009	0.009	0.01	0.011	0.011	0.015
Modem 47181	1/24/2025 15:40	1/24/2025 15:50	0.008	0.008	0.008	0.009	0.009	0.016
Modem 47181	1/24/2025 15:30	1/24/2025 15:40	0.009	0.009	0.01	0.01	0.01	0.019
Modem 47181	1/24/2025 15:20	1/24/2025 15:30	0.009	0.009	0.009	0.01	0.01	0.018
Modem 47181	1/24/2025 15:10	1/24/2025 15:20	0.009	0.009	0.01	0.01	0.01	0.018
Modem 47181	1/24/2025 15:00	1/24/2025 15:10	0.009	0.009	0.009	0.01	0.01	0.019
Modem 47181	1/24/2025 14:50	1/24/2025 15:00	0.008	0.008	0.009	0.009	0.01	0.019
Modem 47181	1/24/2025 14:40	1/24/2025 14:50	0.009	0.009	0.009	0.01	0.01	0.020
Modem 47181	1/24/2025 14:30	1/24/2025 14:40	0.01	0.01	0.01	0.01	0.01	0.023
Modem 47181	1/24/2025 14:20	1/24/2025 14:30	0.009	0.009	0.009	0.01	0.01	0.024
Modem 47181	1/24/2025 14:10	1/24/2025 14:20	0.01	0.011	0.011	0.011	0.011	0.026
Modem 47181	1/24/2025 14:00	1/24/2025 14:10	0.011	0.011	0.011	0.011	0.011	0.023
Modem 47181	1/24/2025 13:50	1/24/2025 14:00	0.017	0.018	0.018	0.019	0.019	0.029
Modem 47181	1/24/2025 13:40	1/24/2025 13:50	0.02	0.02	0.021	0.022	0.022	0.026
Modem 47181	1/24/2025 13:30	1/24/2025 13:40	0.023	0.023	0.024	0.026	0.027	0.028
Modem 47181	1/24/2025 13:20	1/24/2025 13:30	0.024	0.024	0.025	0.026	0.026	0.026
Modem 47181	1/24/2025 13:10	1/24/2025 13:20	0.025	0.025	0.026	0.026	0.026	0.029
Modem 47181	1/24/2025 13:00	1/24/2025 13:10	0.025	0.026	0.027	0.027	0.027	0.033
Modem 47181	1/24/2025 12:50	1/24/2025 13:00	0.026	0.027	0.027	0.028	0.028	0.033
Modem 47181	1/24/2025 12:40	1/24/2025 12:50	0.026	0.027	0.028	0.029	0.029	0.032
Modem 47181	1/24/2025 12:30	1/24/2025 12:40	0.029	0.03	0.033	0.035	0.036	0.036
Modem 47181	1/24/2025 12:20	1/24/2025 12:30	0.03	0.031	0.034	0.038	0.038	
Modem 47181	1/24/2025 12:10	1/24/2025 12:20	0.03	0.032	0.035	0.039	0.04	
Modem 47181	1/24/2025 12:00	1/24/2025 12:10	0.03	0.031	0.032	0.034	0.034	
Modem 47181	1/24/2025 11:50	1/24/2025 12:00	0.032	0.033	0.035	0.038	0.038	
Modem 47181	1/24/2025 11:40	1/24/2025 11:50	0.026	0.026	0.028	0.03	0.03	
Modem 47181	1/24/2025 11:30	1/24/2025 11:40	0.025	0.025	0.026	0.028	0.028	
Modem 47181	1/24/2025 11:20	1/24/2025 11:30	0.024	0.025	0.025	0.025	0.025	
Modem 47181	1/24/2025 11:10	1/24/2025 11:20	0.027	0.028	0.028	0.03	0.031	
Modem 47181	1/24/2025 11:00	1/24/2025 11:10	0.029	0.031	0.034	0.038	0.038	
Modem 47181	1/24/2025 10:50	1/24/2025 11:00	0.034	0.034	0.035	0.036	0.037	
Modem 47181	1/24/2025 10:40	1/24/2025 10:50	0.031	0.032	0.033	0.034	0.034	
Modem 47181	1/24/2025 10:30	1/24/2025 10:40	0.029	0.03	0.032	0.035	0.035	
Downwind								
Modem 49913	1/24/2025 17:50	1/24/2025 18:00	0.012	0.013	0.015	0.022	0.022	0.015
Modem 49913	1/24/2025 17:40	1/24/2025 17:50	0.008	0.008	0.009	0.01	0.01	0.009
Modem 49913	1/24/2025 17:30	1/24/2025 17:40	0.011	0.012	0.013	0.02	0.02	0.013
Modem 49913	1/24/2025 17:20	1/24/2025 17:30	0.007	0.008	0.008	0.009	0.009	0.008

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/24/2025 17:10	1/24/2025 17:20	0.009	0.009	0.009	0.01	0.011	0.009
Modem 49913	1/24/2025 17:00	1/24/2025 17:10	0.01	0.01	0.01	0.011	0.011	0.009
Modem 49913	1/24/2025 16:50	1/24/2025 17:00	0.01	0.01	0.011	0.011	0.011	0.010
Modem 49913	1/24/2025 16:40	1/24/2025 16:50	0.009	0.009	0.01	0.011	0.011	0.010
Modem 49913	1/24/2025 16:30	1/24/2025 16:40	0.008	0.008	0.009	0.009	0.009	0.010
Modem 49913	1/24/2025 16:20	1/24/2025 16:30	0.007	0.007	0.007	0.008	0.008	0.008
Modem 49913	1/24/2025 16:10	1/24/2025 16:20	0.008	0.008	0.008	0.009	0.009	0.010
Modem 49913	1/24/2025 16:00	1/24/2025 16:10	0.038	0.042	0.054	0.095	0.096	0.053
Modem 49913	1/24/2025 15:50	1/24/2025 16:00	0.006	0.007	0.007	0.008	0.008	0.013
Modem 49913	1/24/2025 15:40	1/24/2025 15:50	0.006	0.006	0.006	0.007	0.007	0.014
Modem 49913	1/24/2025 15:30	1/24/2025 15:40	0.006	0.006	0.006	0.006	0.006	0.017
Modem 49913	1/24/2025 15:20	1/24/2025 15:30	0.006	0.006	0.006	0.007	0.007	0.017
Modem 49913	1/24/2025 15:10	1/24/2025 15:20	0.006	0.006	0.006	0.006	0.006	0.020
Modem 49913	1/24/2025 15:00	1/24/2025 15:10	0.006	0.007	0.007	0.007	0.007	0.018
Modem 49913	1/24/2025 14:50	1/24/2025 15:00	0.007	0.007	0.008	0.008	0.008	0.019
Modem 49913	1/24/2025 14:40	1/24/2025 14:50	0.007	0.008	0.008	0.008	0.008	0.027
Modem 49913	1/24/2025 14:30	1/24/2025 14:40	0.008	0.008	0.008	0.01	0.01	0.020
Modem 49913	1/24/2025 14:20	1/24/2025 14:30	0.006	0.006	0.007	0.007	0.007	0.017
Modem 49913	1/24/2025 14:10	1/24/2025 14:20	0.009	0.009	0.01	0.01	0.01	0.016
Modem 49913	1/24/2025 14:00	1/24/2025 14:10	0.009	0.009	0.01	0.01	0.01	0.017
Modem 49913	1/24/2025 13:50	1/24/2025 14:00	0.016	0.017	0.017	0.018	0.018	0.022
Modem 49913	1/24/2025 13:40	1/24/2025 13:50	0.018	0.019	0.019	0.02	0.021	0.033
Modem 49913	1/24/2025 13:30	1/24/2025 13:40	0.024	0.024	0.025	0.027	0.027	0.030
Modem 49913	1/24/2025 13:20	1/24/2025 13:30	0.024	0.024	0.025	0.027	0.027	0.035
Modem 49913	1/24/2025 13:10	1/24/2025 13:20	0.028	0.029	0.031	0.034	0.034	0.028
Modem 49913	1/24/2025 13:00	1/24/2025 13:10	0.025	0.026	0.027	0.028	0.028	0.026
Modem 49913	1/24/2025 12:50	1/24/2025 13:00	0.026	0.027	0.028	0.03	0.03	0.028
Modem 49913	1/24/2025 12:40	1/24/2025 12:50	0.032	0.033	0.037	0.045	0.045	0.035
Modem 49913	1/24/2025 12:30	1/24/2025 12:40	0.026	0.027	0.028	0.03	0.03	0.029
Modem 49913	1/24/2025 12:20	1/24/2025 12:30	0.023	0.023	0.024	0.026	0.026	
Modem 49913	1/24/2025 12:10	1/24/2025 12:20	0.02	0.02	0.02	0.021	0.021	
Modem 49913	1/24/2025 12:00	1/24/2025 12:10	0.023	0.023	0.023	0.024	0.024	
Modem 49913	1/24/2025 11:50	1/24/2025 12:00	0.024	0.024	0.025	0.025	0.025	
Modem 49913	1/24/2025 11:40	1/24/2025 11:50	0.03	0.031	0.034	0.043	0.044	
Modem 49913	1/24/2025 11:30	1/24/2025 11:40	0.028	0.029	0.03	0.033	0.033	
Modem 49913	1/24/2025 11:20	1/24/2025 11:30	0.032	0.033	0.037	0.042	0.042	
Modem 49913	1/24/2025 11:10	1/24/2025 11:20	0.021	0.022	0.022	0.022	0.022	
Modem 49913	1/24/2025 11:00	1/24/2025 11:10	0.022	0.022	0.023	0.023	0.023	
Modem 49913	1/24/2025 10:50	1/24/2025 11:00	0.024	0.024	0.025	0.026	0.026	
Modem 49913	1/24/2025 10:40	1/24/2025 10:50	0.024	0.025	0.025	0.025	0.025	
Modem 49913	1/24/2025 10:30	1/24/2025 10:40	0.026	0.026	0.026	0.027	0.027	

501375

SAMPLE CHAIN OF CUSTODY

01/28/25 ISM/FI

Page # 1 of 1

Report To Breeyn Greer

Company

Address 505 West Riverside Ave. Ste 450

City, State, ZIP Spokane, WA 99201

Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (signature)

PROJECT NAME: CVSD Gun Club

PO # 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL

Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

TURNAROUND TIME: Standard Turnaround

RUSH charges authorized by:

SAMPLE DISPOSAL: Dispose after 30 days / Archive Samples / Other

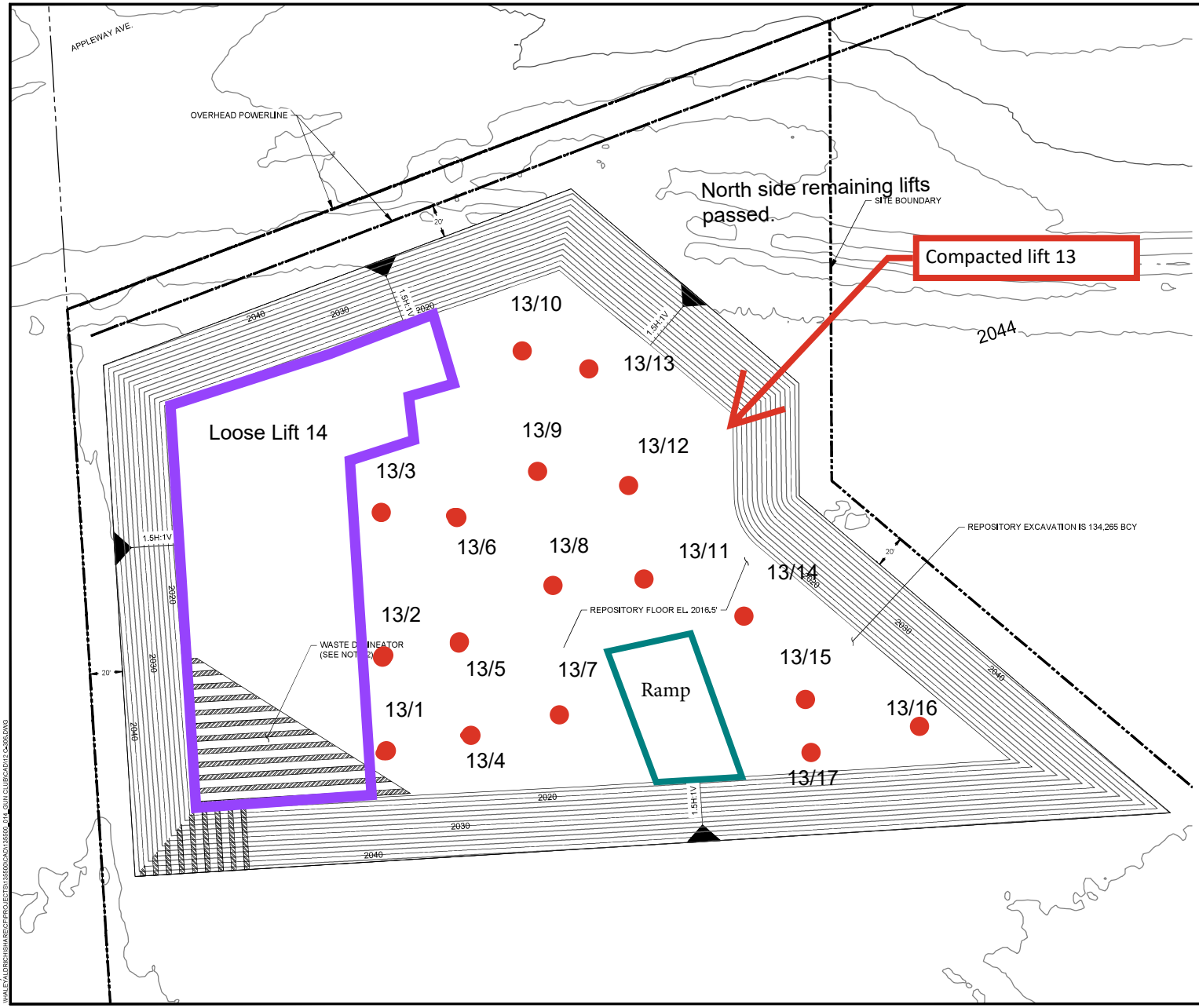
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	cPAHs project specific list	PB EPA 6020	AB EPA 6020	TSM Processing		Notes
C_83_2	01	1-24-25	12:25	Soil	1				•			X	X	X	X		
C_100_2	02	1-24-25	11:40									X			X		project specific list
C_77_3.5	03	1-24-25	12:00									X			X		
C_78_2	04	1-24-25	12:50									X			X		
C_69_2.5	05	1-27-25	1330									X			X		

Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Cameron Lackey	H+A	1-27-24	15:00
Received by:	Nhan Phan	FeBT	1/28/25	1050
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

FORMS\COC\COC.DOC



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB CLEANUP PROJECT

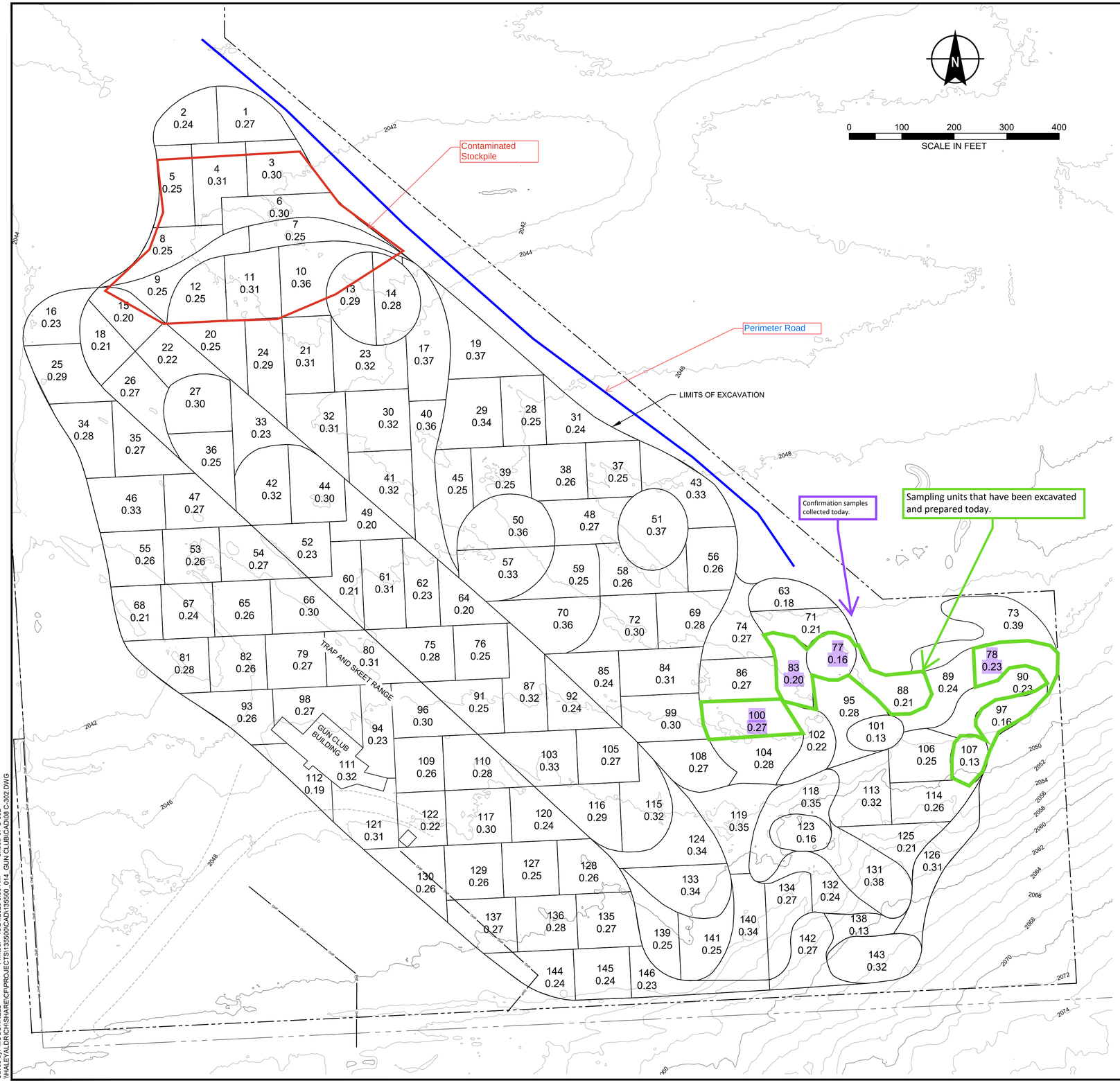
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY, WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 CA06
\\HALEYALDRICH\SHARE\CPROJECTS\135000\CA01135000_CVSD_GUN CLUB\CAD\12 C-306.DWG



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
24 Jan 2025

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
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0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	50
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	27 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No units were over excavated by Halme today.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of the remaining uncovered portions of Lift No. 13 and loose backfilling of Lift No. 14 in the repository. As different areas of the repository passed compaction testing for Lift No. 13, Halme brought in fill to the repository for Lift No. 14 and deposited this soil in small stockpiles. By the end of the day Lift No. 14 was partially tested.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 86% and the wind was to the east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, while they temporarily exceeded the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to Halme operating a water truck in the haul areas periodically throughout the day.

III. COMPACTION TESTING:

The follow compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
14/1	2-4”	Pass
14/2	2-4”	Pass
14/3	2-5”	Pass
14/4	2-4”	Pass
14/5	4-6”	Pass
14/6	2-4”	Pass
14/7	2-4”	Pass
14/8	2-4”	Pass
14/9	2-4”	Pass
14/10	2-4”	Pass
14/11	2-4”	Pass
14/12	4-6”	Pass
14/13	2-4"	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	50
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	27 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
14/14	2-4"	Pass
14/15	2-4"	Pass

Areas tested for Lift No. 14 were covered with Lift No. 15 after passing compaction testing. Repository testing locations attached.

IV. CONFIRMATION SAMPLING:

The following samples were collected today, and samples collected on 24 January and 27 January were shipped today via FedEx.

Table 2. Confirmation Sampling Information

Sample Name	Sample Date	Sample Time	Analysis
C_69_2.5	01-27-2025	13:30	cPAHs

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 13 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	Time on Site	Report/Travel/Other	Total
Cameron Luckey	9.00 hours	2.0 hours	11.0 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Confirmation Sampling Plan
Attachment E – Repository Subgrade Excavation Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_27_25_CAL_DFR_50/01_27_25_CAL_DFR.docx



Photo 01. Repository backfill progress at the end of the excavation day (view looking northwest).



Photo 02. Repository back fill progress at the end of excavation day (view looking north).

Site Photographs – 27 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Southern stockpile excavation progress (view looking southeast).



Photo 04. Loose Lift No.14 placed on the east side of the repository (view looking southeast).

Site Photographs – 27 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Upwind			*Latest*	*Latest*	*Latest*	*Latest*	*Latest*	
Modem 47181	1/27/2025 18:10	1/27/2025 18:20	0.006	0.006	0.007	0.007	0.007	0.0075
Modem 47181	1/27/2025 18:00	1/27/2025 18:10	0.006	0.006	0.006	0.006	0.006	0.0075
Modem 47181	1/27/2025 17:50	1/27/2025 18:00	0.006	0.006	0.007	0.007	0.007	0.008
Modem 47181	1/27/2025 17:40	1/27/2025 17:50	0.007	0.007	0.007	0.008	0.008	0.009
Modem 47181	1/27/2025 17:30	1/27/2025 17:40	0.006	0.006	0.007	0.007	0.007	0.008
Modem 47181	1/27/2025 17:20	1/27/2025 17:30	0.008	0.008	0.008	0.008	0.008	0.0095
Modem 47181	1/27/2025 17:10	1/27/2025 17:20	0.009	0.009	0.009	0.01	0.01	0.0095
Modem 47181	1/27/2025 17:00	1/27/2025 17:10	0.009	0.009	0.01	0.01	0.01	0.009
Modem 47181	1/27/2025 16:50	1/27/2025 17:00	0.009	0.009	0.009	0.011	0.011	0.01
Modem 47181	1/27/2025 16:40	1/27/2025 16:50	0.008	0.008	0.008	0.009	0.009	0.0095
Modem 47181	1/27/2025 16:30	1/27/2025 16:40	0.008	0.009	0.009	0.01	0.01	0.01
Modem 47181	1/27/2025 16:20	1/27/2025 16:30	0.008	0.008	0.009	0.009	0.009	0.01
Modem 47181	1/27/2025 16:10	1/27/2025 16:20	0.007	0.008	0.008	0.008	0.008	0.0095
Modem 47181	1/27/2025 16:00	1/27/2025 16:10	0.008	0.008	0.008	0.008	0.009	0.0105
Modem 47181	1/27/2025 15:50	1/27/2025 16:00	0.008	0.008	0.008	0.009	0.009	0.01
Modem 47181	1/27/2025 15:40	1/27/2025 15:50	0.008	0.009	0.009	0.01	0.01	0.01
Modem 47181	1/27/2025 15:30	1/27/2025 15:40	0.008	0.008	0.009	0.009	0.009	0.01
Modem 47181	1/27/2025 15:20	1/27/2025 15:30	0.01	0.01	0.01	0.011	0.011	0.0105
Modem 47181	1/27/2025 15:10	1/27/2025 15:20	0.008	0.008	0.008	0.009	0.009	0.0135
Modem 47181	1/27/2025 15:00	1/27/2025 15:10	0.007	0.008	0.008	0.008	0.008	0.0155
Modem 47181	1/27/2025 14:50	1/27/2025 15:00	0.008	0.008	0.009	0.009	0.009	0.018
Modem 47181	1/27/2025 14:40	1/27/2025 14:50	0.01	0.01	0.01	0.01	0.01	0.017
Modem 47181	1/27/2025 14:30	1/27/2025 14:40	0.009	0.009	0.01	0.01	0.01	0.0175
Modem 47181	1/27/2025 14:20	1/27/2025 14:30	0.01	0.011	0.011	0.011	0.011	0.0185
Modem 47181	1/27/2025 14:10	1/27/2025 14:20	0.011	0.011	0.011	0.011	0.011	0.019
Modem 47181	1/27/2025 14:00	1/27/2025 14:10	0.011	0.011	0.011	0.012	0.012	0.02
Modem 47181	1/27/2025 13:50	1/27/2025 14:00	0.01	0.01	0.01	0.011	0.011	0.019
Modem 47181	1/27/2025 13:40	1/27/2025 13:50	0.009	0.01	0.01	0.01	0.01	0.018
Modem 47181	1/27/2025 13:30	1/27/2025 13:40	0.01	0.01	0.011	0.011	0.011	0.018
Modem 47181	1/27/2025 13:20	1/27/2025 13:30	0.01	0.01	0.01	0.01	0.01	0.018
Modem 47181	1/27/2025 13:10	1/27/2025 13:20	0.017	0.017	0.017	0.018	0.018	0.0245
Modem 47181	1/27/2025 13:00	1/27/2025 13:10	0.019	0.02	0.021	0.022	0.023	0.026
Modem 47181	1/27/2025 12:50	1/27/2025 13:00	0.022	0.023	0.024	0.026	0.027	0.025
Modem 47181	1/27/2025 12:40	1/27/2025 12:50	0.022	0.022	0.023	0.024	0.024	0.0325
Modem 47181	1/27/2025 12:30	1/27/2025 12:40	0.023	0.024	0.024	0.025	0.025	0.04
Modem 47181	1/27/2025 12:20	1/27/2025 12:30	0.024	0.025	0.025	0.026	0.026	
Modem 47181	1/27/2025 12:10	1/27/2025 12:20	0.025	0.025	0.026	0.027	0.027	
Modem 47181	1/27/2025 12:00	1/27/2025 12:10	0.026	0.026	0.027	0.028	0.028	
Modem 47181	1/27/2025 11:50	1/27/2025 12:00	0.025	0.026	0.026	0.027	0.027	
Modem 47181	1/27/2025 11:40	1/27/2025 11:50	0.024	0.025	0.025	0.026	0.026	
Modem 47181	1/27/2025 11:30	1/27/2025 11:40	0.024	0.024	0.025	0.025	0.025	
Modem 47181	1/27/2025 11:20	1/27/2025 11:30	0.024	0.024	0.025	0.026	0.026	
Modem 47181	1/27/2025 11:10	1/27/2025 11:20	0.028	0.028	0.029	0.03	0.031	
Modem 47181	1/27/2025 11:00	1/27/2025 11:10	0.028	0.028	0.028	0.029	0.029	
Modem 47181	1/27/2025 10:50	1/27/2025 11:00	0.022	0.023	0.023	0.023	0.023	
Modem 47181	1/27/2025 10:40	1/27/2025 10:50	0.04	0.04	0.041	0.041	0.041	
Modem 47181	1/27/2025 10:30	1/27/2025 10:40	0.052	0.052	0.053	0.055	0.055	
Downwind								
Modem 49913	1/27/2025 18:20	1/27/2025 18:30	0.004	0.004	0.005	0.006	0.006	0.0065

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/27/2025 18:10	1/27/2025 18:20	0.004	0.004	0.004	0.005	0.005	0.0055
Modem 49913	1/27/2025 18:00	1/27/2025 18:10	0.004	0.005	0.005	0.007	0.007	0.007
Modem 49913	1/27/2025 17:50	1/27/2025 18:00	0.006	0.006	0.007	0.009	0.009	0.0085
Modem 49913	1/27/2025 17:40	1/27/2025 17:50	0.005	0.005	0.006	0.007	0.007	0.0075
Modem 49913	1/27/2025 17:30	1/27/2025 17:40	0.005	0.006	0.006	0.008	0.008	0.009
Modem 49913	1/27/2025 17:20	1/27/2025 17:30	0.005	0.005	0.006	0.007	0.007	0.01
Modem 49913	1/27/2025 17:10	1/27/2025 17:20	0.007	0.007	0.008	0.01	0.01	0.009
Modem 49913	1/27/2025 17:00	1/27/2025 17:10	0.008	0.009	0.01	0.012	0.013	0.0095
Modem 49913	1/27/2025 16:50	1/27/2025 17:00	0.006	0.006	0.007	0.009	0.009	0.0085
Modem 49913	1/27/2025 16:40	1/27/2025 16:50	0.006	0.006	0.007	0.008	0.008	0.0085
Modem 49913	1/27/2025 16:30	1/27/2025 16:40	0.007	0.007	0.007	0.008	0.008	0.0085
Modem 49913	1/27/2025 16:20	1/27/2025 16:30	0.006	0.006	0.006	0.007	0.007	0.0085
Modem 49913	1/27/2025 16:10	1/27/2025 16:20	0.006	0.006	0.006	0.006	0.006	0.0075
Modem 49913	1/27/2025 16:00	1/27/2025 16:10	0.006	0.006	0.006	0.007	0.007	0.008
Modem 49913	1/27/2025 15:50	1/27/2025 16:00	0.007	0.007	0.007	0.008	0.008	0.0085
Modem 49913	1/27/2025 15:40	1/27/2025 15:50	0.007	0.007	0.007	0.008	0.008	0.0085
Modem 49913	1/27/2025 15:30	1/27/2025 15:40	0.008	0.009	0.009	0.01	0.01	0.009
Modem 49913	1/27/2025 15:20	1/27/2025 15:30	0.009	0.009	0.01	0.012	0.013	0.0115
Modem 49913	1/27/2025 15:10	1/27/2025 15:20	0.007	0.007	0.007	0.008	0.008	0.013
Modem 49913	1/27/2025 15:00	1/27/2025 15:10	0.006	0.006	0.006	0.006	0.006	0.0135
Modem 49913	1/27/2025 14:50	1/27/2025 15:00	0.007	0.007	0.007	0.008	0.008	0.0155
Modem 49913	1/27/2025 14:40	1/27/2025 14:50	0.008	0.008	0.009	0.009	0.009	0.0175
Modem 49913	1/27/2025 14:30	1/27/2025 14:40	0.008	0.008	0.008	0.009	0.009	0.0215
Modem 49913	1/27/2025 14:20	1/27/2025 14:30	0.009	0.009	0.009	0.01	0.01	0.0215
Modem 49913	1/27/2025 14:10	1/27/2025 14:20	0.008	0.008	0.008	0.009	0.009	0.029
Modem 49913	1/27/2025 14:00	1/27/2025 14:10	0.008	0.008	0.009	0.009	0.009	0.1175
Modem 49913	1/27/2025 13:50	1/27/2025 14:00	0.009	0.009	0.009	0.009	0.009	0.0205
Modem 49913	1/27/2025 13:40	1/27/2025 13:50	0.008	0.008	0.009	0.009	0.009	0.02
Modem 49913	1/27/2025 13:30	1/27/2025 13:40	0.008	0.008	0.008	0.008	0.008	0.0255
Modem 49913	1/27/2025 13:20	1/27/2025 13:30	0.008	0.009	0.009	0.01	0.01	0.016
Modem 49913	1/27/2025 13:10	1/27/2025 13:20	0.017	0.017	0.018	0.018	0.018	0.0265
Modem 49913	1/27/2025 13:00	1/27/2025 13:10	0.019	0.02	0.02	0.021	0.021	0.0435
Modem 49913	1/27/2025 12:50	1/27/2025 13:00	0.021	0.021	0.022	0.023	0.023	0.206
Modem 49913	1/27/2025 12:40	1/27/2025 12:50	0.023	0.023	0.024	0.026	0.026	0.025
Modem 49913	1/27/2025 12:30	1/27/2025 12:40	0.03	0.03	0.031	0.034	0.034	0.0265
Modem 49913	1/27/2025 12:20	1/27/2025 12:30	0.03	0.031	0.031	0.033	0.033	
Modem 49913	1/27/2025 12:10	1/27/2025 12:20	0.045	0.046	0.046	0.049	0.049	
Modem 49913	1/27/2025 12:00	1/27/2025 12:10	0.223	0.224	0.224	0.226	0.226	
Modem 49913	1/27/2025 11:50	1/27/2025 12:00	0.028	0.029	0.03	0.032	0.032	
Modem 49913	1/27/2025 11:40	1/27/2025 11:50	0.028	0.028	0.029	0.031	0.031	
Modem 49913	1/27/2025 11:30	1/27/2025 11:40	0.037	0.038	0.039	0.043	0.043	
Modem 49913	1/27/2025 11:20	1/27/2025 11:30	0.021	0.021	0.021	0.022	0.022	
Modem 49913	1/27/2025 11:10	1/27/2025 11:20	0.033	0.033	0.034	0.035	0.035	
Modem 49913	1/27/2025 11:00	1/27/2025 11:10	0.055	0.055	0.058	0.065	0.066	
Modem 49913	1/27/2025 10:50	1/27/2025 11:00	0.388	0.388	0.388	0.389	0.389	
Modem 49913	1/27/2025 10:40	1/27/2025 10:50	0.022	0.023	0.023	0.024	0.024	
Modem 49913	1/27/2025 10:30	1/27/2025 10:40	0.018	0.018	0.019	0.019	0.019	

SAMPLE CHAIN OF CUSTODY

Report To Breeyn Greer
Company
Address 505 West Riverside Ave. Ste 450
City, State, ZIP Spokane, WA 99201
Phone 612-232-7343 Email bgreer@haleyaldrich.com

SAMPLERS (*signature*)

PROJECT NAME: CVSD Gun Club
PO #: 0202349-002

REMARKS: Project Specific Reporting List; 0.005 mg/Kg RL
Project Specific RLs - Yes / No

INVOICE TO: accountspayable@haleyaldrich.com

Page # 1 of 1

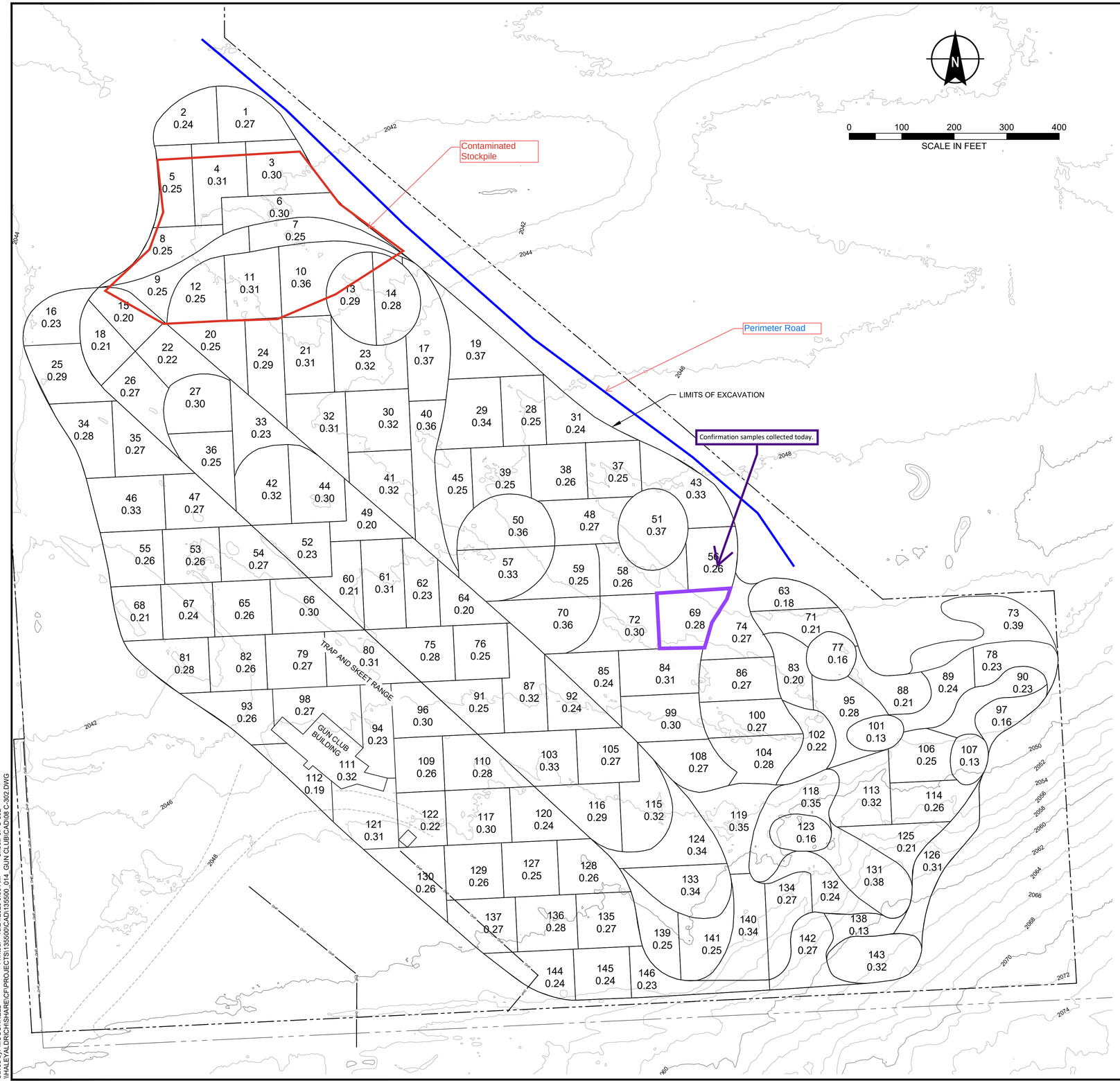
TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CPAHs project specific list	8 EPA Gold	ASEPA Gold	TSM Metals		Notes
C_83_2		1-24-25	12:25	Soil	1				X			X	X	X	X		project
C_100_2		1-24-25	11:40									X			X		specific list
C_77_3.5		1-24-25	12:00									X			X		
C_78_2		1-24-25	12:50									X			X		
C_69_2.5		1-27-25	1330									X			X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Cameron Lackey	H+A	1-27-24	15:00
Received by:				
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
27 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

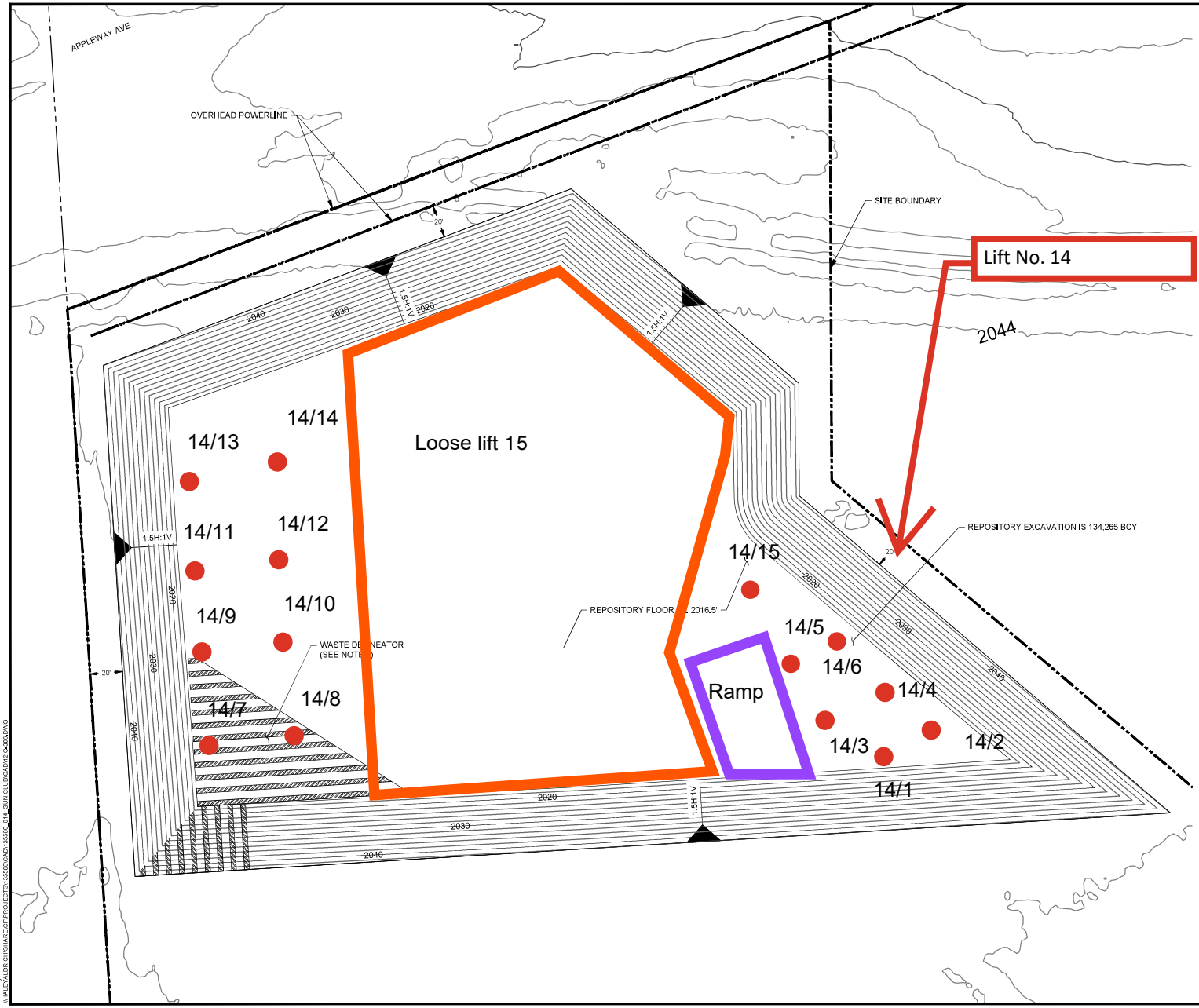
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	51
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	28 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	15-35°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: No excavation activities were performed today.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of Lift No. 14 and backfilling of Lift No. 15 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 15 and deposited this soil in small stockpiles. By the end of the day, Lift No. 14 had been verified as adequately compacted everywhere except the south side, with the cleared areas being mostly covered by these Lift No. 15 stockpiles.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated from 07:15 to 16:30. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 95% and the wind was to the north-northwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, while they temporarily exceeded the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This limit was surpassed at the start of the day before Halme had deployed dust controls. After Halme mobilized water trucks to water the haul roads, dust levels decreased below this threshold for the rest of the day, indicating that the dust control methods employed by Halme were sufficient in keeping dust levels well under control.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 being out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The follow compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
14/1	SE Arm	08:20	2-6”	Pass
14/2	SE Arm	08:20	2-6”	Pass
14/3	SE Arm	08:20	>6”	Fail
14/4	SE Arm	08:20	2-6”	Pass
14/5	SE Arm	08:20	2-6”	Pass

Table 1. Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
14/6	Bottom of Ramp	08:20	2-6”	Pass
14/7	Bottom of Ramp	08:20	2-6”	Pass
14/8	Bottom of Ramp	08:20	<2”	Fail
14/9	Bottom of Ramp	08:20	2-6”	Pass
14/10	Bottom of Ramp	08:20	2-6”	Pass
14/11	West Side	10:15	2-6”	Pass
14/12	West Side	10:15	2-6”	Pass
14/13	West Side	10:15	2-6”	Pass
14/14	West Side	10:15	2-6”	Pass
14/15	West Side	10:15	2-6”	Pass
14/16	West Side	10:15	2-6”	Pass
14/17	East Side	10:15	2-6”	Pass
14/18	East Side	10:15	2-6”	Pass
14/19	East Side	10:15	2-6”	Pass
14/20	East Side	10:15	2-6”	Pass
14/21	East Side	10:15	2-6”	Pass
14/22	East Side	10:15	2-6”	Pass
14/23	East Side	10:15	>6”	Fail
14/24	East Side	10:15	>6”	Fail
14/25	East Side	10:45	2-6”	Pass
14/26	East Side	10:45	2-6”	Pass

These tests yielded a total of 22 passing results across the sections of Lift No. 14 listed above. The north side of this lift had been previously tested and cleared, while the south side was not tested today; as such, Halme was instructed to not put any fill on the south side of the repository until it had been scarified, recompacted, tested, and cleared.

IV. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 14 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	51
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	28 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	15-35°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Luke Peden	10 hours	2 hours	12 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_28_25_LWP_DFR_51/01_28_25_LWP_DFR.docx

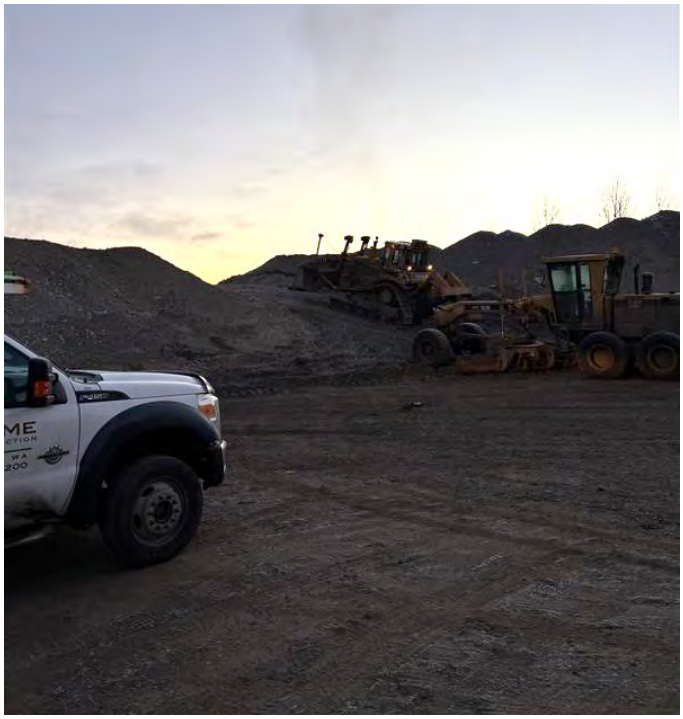


Photo 01. Halme Construction, Inc. (Halme) mobilizing over clean soil stockpiles.



Photo 02. Loading contaminated southeast stockpile soil into haul trucks for backfill in repository.

Site Photographs – 28 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Repository – beginning of day (view looking southwest).

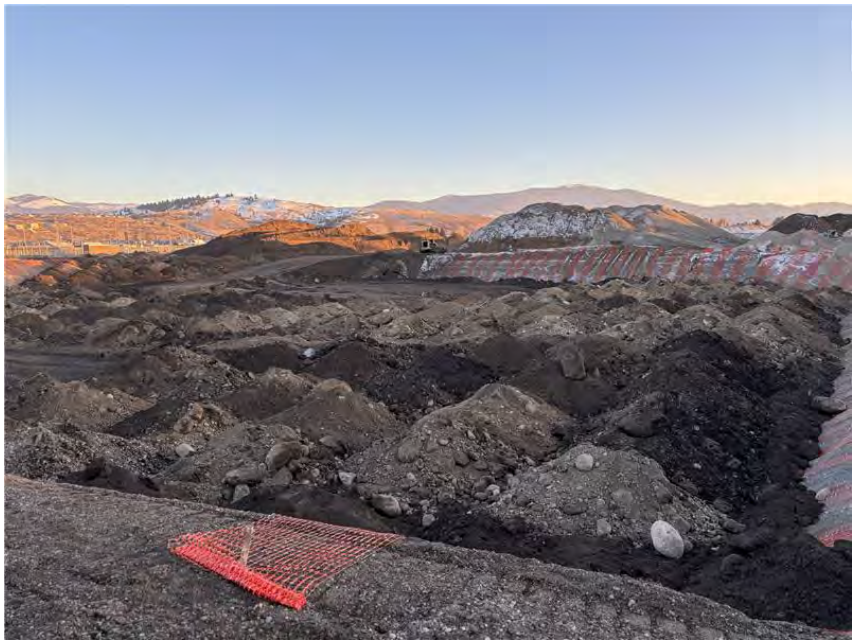


Photo 04. Repository – end of day (view looking south).

Site Photographs – 28 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

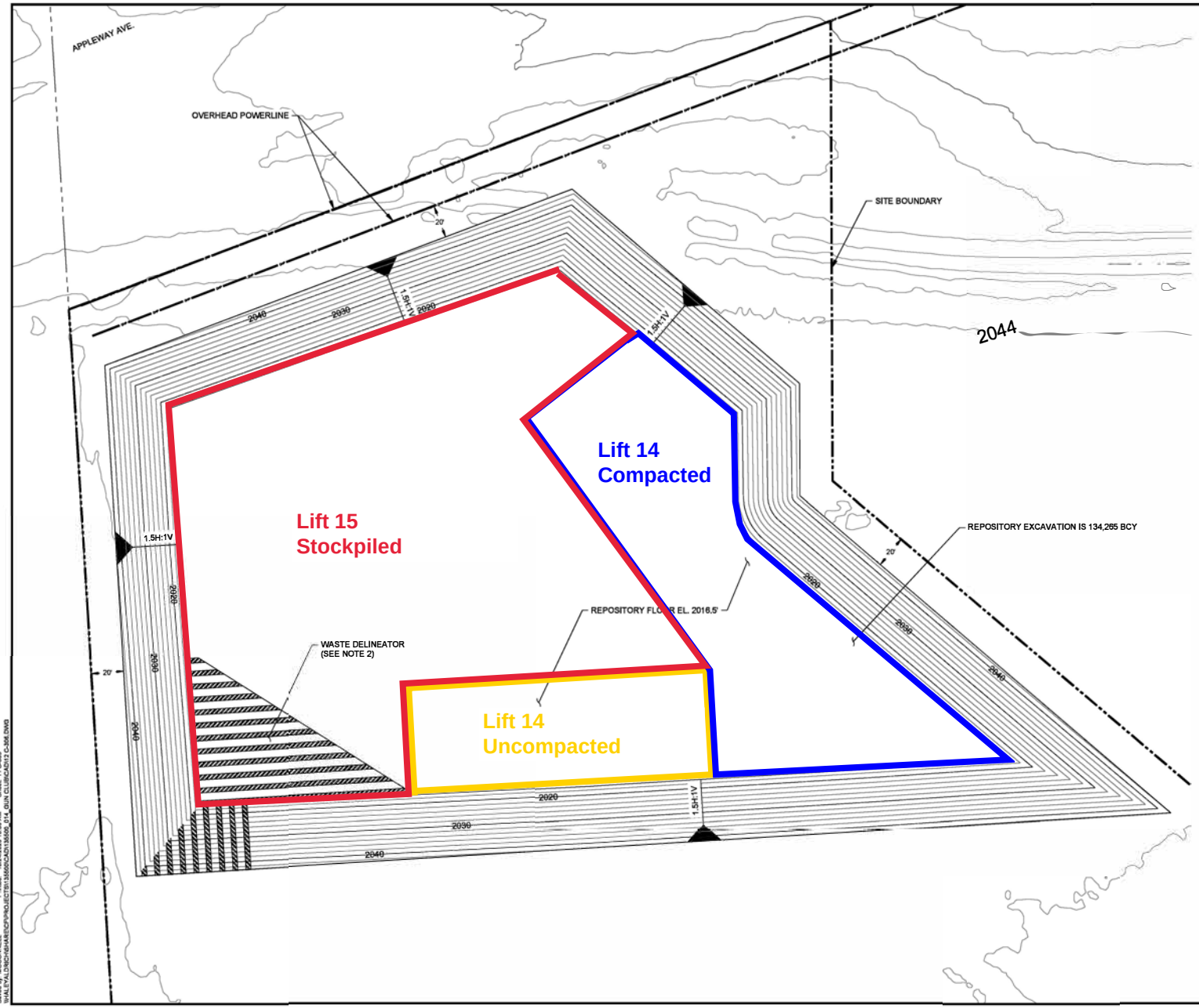
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	1/28/2025 19:50	1/28/2025 20:00	0.015	0.017	0.019	0.024	0.025	0.018
Modem 47181	1/28/2025 19:40	1/28/2025 19:50	0.015	0.017	0.019	0.024	0.025	0.017
Modem 47181	1/28/2025 19:30	1/28/2025 19:40	0.015	0.017	0.019	0.024	0.025	0.016
Modem 47181	1/28/2025 19:20	1/28/2025 19:30	0.015	0.017	0.019	0.024	0.025	0.015
Modem 47181	1/28/2025 19:10	1/28/2025 19:20	0.015	0.017	0.019	0.024	0.025	0.014
Modem 47181	1/28/2025 19:00	1/28/2025 19:10	0.013	0.014	0.015	0.017	0.017	0.013
Modem 47181	1/28/2025 18:50	1/28/2025 19:00	0.011	0.012	0.012	0.014	0.014	0.013
Modem 47181	1/28/2025 18:40	1/28/2025 18:50	0.011	0.012	0.012	0.013	0.013	0.013
Modem 47181	1/28/2025 18:30	1/28/2025 18:40	0.011	0.011	0.013	0.013	0.013	0.013
Modem 47181	1/28/2025 18:20	1/28/2025 18:30	0.010	0.010	0.011	0.011	0.011	0.013
Modem 47181	1/28/2025 18:10	1/28/2025 18:20	0.010	0.010	0.011	0.011	0.012	0.013
Modem 47181	1/28/2025 18:00	1/28/2025 18:10	0.010	0.010	0.010	0.011	0.012	0.014
Modem 47181	1/28/2025 17:50	1/28/2025 18:00	0.009	0.010	0.010	0.011	0.012	0.014
Modem 47181	1/28/2025 17:40	1/28/2025 17:50	0.010	0.010	0.011	0.011	0.011	0.015
Modem 47181	1/28/2025 17:30	1/28/2025 17:40	0.011	0.012	0.012	0.012	0.012	0.015
Modem 47181	1/28/2025 17:20	1/28/2025 17:30	0.011	0.011	0.012	0.012	0.012	0.015
Modem 47181	1/28/2025 17:10	1/28/2025 17:20	0.012	0.013	0.013	0.013	0.013	0.015
Modem 47181	1/28/2025 17:00	1/28/2025 17:10	0.013	0.013	0.014	0.014	0.014	0.016
Modem 47181	1/28/2025 16:50	1/28/2025 17:00	0.013	0.013	0.014	0.014	0.014	0.016
Modem 47181	1/28/2025 16:40	1/28/2025 16:50	0.015	0.015	0.016	0.016	0.016	0.016
Modem 47181	1/28/2025 16:30	1/28/2025 16:40	0.014	0.014	0.015	0.015	0.015	0.016
Modem 47181	1/28/2025 16:20	1/28/2025 16:30	0.014	0.014	0.015	0.015	0.015	0.016
Modem 47181	1/28/2025 16:10	1/28/2025 16:20	0.014	0.014	0.015	0.017	0.017	0.016
Modem 47181	1/28/2025 16:00	1/28/2025 16:10	0.015	0.015	0.015	0.016	0.016	0.016
Modem 47181	1/28/2025 15:50	1/28/2025 16:00	0.017	0.017	0.018	0.018	0.018	0.016
Modem 47181	1/28/2025 15:40	1/28/2025 15:50	0.015	0.015	0.016	0.016	0.016	0.017
Modem 47181	1/28/2025 15:30	1/28/2025 15:40	0.015	0.015	0.016	0.016	0.016	0.017
Modem 47181	1/28/2025 15:20	1/28/2025 15:30	0.014	0.015	0.015	0.016	0.016	0.017
Modem 47181	1/28/2025 15:10	1/28/2025 15:20	0.014	0.014	0.014	0.015	0.015	0.017
Modem 47181	1/28/2025 15:00	1/28/2025 15:10	0.014	0.014	0.015	0.015	0.015	0.017
Modem 47181	1/28/2025 14:50	1/28/2025 15:00	0.015	0.016	0.016	0.016	0.016	0.017
Modem 47181	1/28/2025 14:40	1/28/2025 14:50	0.017	0.017	0.018	0.018	0.018	0.018
Modem 47181	1/28/2025 14:30	1/28/2025 14:40	0.016	0.017	0.017	0.017	0.017	0.018
Modem 47181	1/28/2025 14:20	1/28/2025 14:30	0.018	0.018	0.019	0.019	0.019	0.019
Modem 47181	1/28/2025 14:10	1/28/2025 14:20	0.014	0.014	0.015	0.015	0.015	0.020
Modem 47181	1/28/2025 14:00	1/28/2025 14:10	0.015	0.016	0.016	0.017	0.017	0.020
Modem 47181	1/28/2025 13:50	1/28/2025 14:00	0.015	0.015	0.016	0.016	0.016	0.021
Modem 47181	1/28/2025 13:40	1/28/2025 13:50	0.018	0.019	0.019	0.019	0.019	0.022
Modem 47181	1/28/2025 13:30	1/28/2025 13:40	0.018	0.018	0.018	0.018	0.018	0.022
Modem 47181	1/28/2025 13:20	1/28/2025 13:30	0.019	0.020	0.020	0.021	0.021	0.023
Modem 47181	1/28/2025 13:10	1/28/2025 13:20	0.018	0.018	0.018	0.018	0.018	0.023
Modem 47181	1/28/2025 13:00	1/28/2025 13:10	0.015	0.015	0.015	0.016	0.016	0.023
Modem 47181	1/28/2025 12:50	1/28/2025 13:00	0.016	0.017	0.017	0.017	0.017	0.023
Modem 47181	1/28/2025 12:40	1/28/2025 12:50	0.018	0.019	0.019	0.020	0.020	0.023
Modem 47181	1/28/2025 12:30	1/28/2025 12:40	0.024	0.024	0.025	0.026	0.026	0.023
Modem 47181	1/28/2025 12:20	1/28/2025 12:30	0.023	0.024	0.024	0.025	0.026	0.024
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Modem 47181	1/28/2025 12:00	1/28/2025 12:10	0.025	0.025	0.025	0.026	0.026	0.021

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	1/28/2025 11:50	1/28/2025 12:00	0.025	0.026	0.026	0.027	0.027	
Modem 47181	1/28/2025 11:40	1/28/2025 11:50	0.024	0.024	0.025	0.025	0.025	
Modem 47181	1/28/2025 11:30	1/28/2025 11:40	0.022	0.023	0.023	0.024	0.024	
Modem 47181	1/28/2025 11:20	1/28/2025 11:30	0.021	0.021	0.021	0.022	0.022	
Modem 47181	1/28/2025 11:10	1/28/2025 11:20	0.021	0.021	0.021	0.022	0.022	
Modem 47181	1/28/2025 11:00	1/28/2025 11:10	0.020	0.020	0.020	0.021	0.021	
Modem 47181	1/28/2025 10:50	1/28/2025 11:00	0.018	0.018	0.019	0.019	0.019	
Modem 47181	1/28/2025 10:40	1/28/2025 10:50	0.019	0.019	0.019	0.020	0.020	
Modem 47181	1/28/2025 10:30	1/28/2025 10:40	0.020	0.021	0.021	0.022	0.022	
Modem 47181	1/28/2025 10:20	1/28/2025 10:30	0.025	0.025	0.026	0.029	0.035	
Modem 47181	1/28/2025 10:10	1/28/2025 10:20	0.006	0.006	0.007	0.007	0.007	
Modem 47181	1/28/2025 10:00	1/28/2025 10:10	0.006	0.006	0.007	0.007	0.007	
Downwind								
Modem 49913	1/28/2025 19:50	1/28/2025 20:00	0.010	0.010	0.011	0.012	0.012	0.012
Modem 49913	1/28/2025 19:40	1/28/2025 19:50	0.010	0.010	0.011	0.012	0.012	0.012
Modem 49913	1/28/2025 19:30	1/28/2025 19:40	0.010	0.010	0.011	0.012	0.012	0.012
Modem 49913	1/28/2025 19:20	1/28/2025 19:30	0.010	0.010	0.011	0.012	0.012	0.011
Modem 49913	1/28/2025 19:10	1/28/2025 19:20	0.009	0.009	0.010	0.010	0.010	0.011
Modem 49913	1/28/2025 19:00	1/28/2025 19:10	0.011	0.012	0.013	0.014	0.014	0.012
Modem 49913	1/28/2025 18:50	1/28/2025 19:00	0.010	0.011	0.012	0.013	0.013	0.011
Modem 49913	1/28/2025 18:40	1/28/2025 18:50	0.011	0.012	0.013	0.015	0.015	0.011
Modem 49913	1/28/2025 18:30	1/28/2025 18:40	0.009	0.010	0.011	0.012	0.012	0.011
Modem 49913	1/28/2025 18:20	1/28/2025 18:30	0.009	0.009	0.010	0.011	0.011	0.011
Modem 49913	1/28/2025 18:10	1/28/2025 18:20	0.009	0.010	0.011	0.012	0.012	0.011
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Modem 49913	1/28/2025 17:30	1/28/2025 17:40	0.009	0.009	0.010	0.010	0.010	0.012
Modem 49913	1/28/2025 17:20	1/28/2025 17:30	0.010	0.010	0.010	0.011	0.011	0.012
Modem 49913	1/28/2025 17:10	1/28/2025 17:20	0.011	0.011	0.012	0.012	0.012	0.013
Modem 49913	1/28/2025 17:00	1/28/2025 17:10	0.010	0.010	0.011	0.012	0.012	0.013
Modem 49913	1/28/2025 16:50	1/28/2025 17:00	0.010	0.010	0.011	0.011	0.012	0.013
Modem 49913	1/28/2025 16:40	1/28/2025 16:50	0.010	0.011	0.011	0.012	0.013	0.013
Modem 49913	1/28/2025 16:30	1/28/2025 16:40	0.011	0.011	0.012	0.013	0.013	0.013
Modem 49913	1/28/2025 16:20	1/28/2025 16:30	0.011	0.011	0.012	0.012	0.012	0.013
Modem 49913	1/28/2025 16:10	1/28/2025 16:20	0.010	0.010	0.011	0.012	0.012	0.014
Modem 49913	1/28/2025 16:00	1/28/2025 16:10	0.011	0.011	0.011	0.012	0.012	0.014
Modem 49913	1/28/2025 15:50	1/28/2025 16:00	0.011	0.011	0.012	0.012	0.012	0.014
Modem 49913	1/28/2025 15:40	1/28/2025 15:50	0.013	0.013	0.014	0.015	0.015	0.014
Modem 49913	1/28/2025 15:30	1/28/2025 15:40	0.013	0.013	0.014	0.014	0.014	0.014
Modem 49913	1/28/2025 15:20	1/28/2025 15:30	0.011	0.011	0.011	0.012	0.012	0.015
Modem 49913	1/28/2025 15:10	1/28/2025 15:20	0.011	0.011	0.012	0.012	0.012	0.015
Modem 49913	1/28/2025 15:00	1/28/2025 15:10	0.013	0.013	0.014	0.015	0.015	0.015
Modem 49913	1/28/2025 14:50	1/28/2025 15:00	0.012	0.012	0.012	0.012	0.012	0.015
Modem 49913	1/28/2025 14:40	1/28/2025 14:50	0.014	0.015	0.015	0.016	0.016	0.015
Modem 49913	1/28/2025 14:30	1/28/2025 14:40	0.012	0.012	0.012	0.012	0.012	0.016
Modem 49913	1/28/2025 14:20	1/28/2025 14:30	0.016	0.016	0.017	0.018	0.018	0.017
Modem 49913	1/28/2025 14:10	1/28/2025 14:20	0.013	0.013	0.013	0.014	0.014	0.017
Modem 49913	1/28/2025 14:00	1/28/2025 14:10	0.012	0.013	0.013	0.013	0.013	0.018

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	1/28/2025 13:50	1/28/2025 14:00	0.014	0.015	0.015	0.016	0.016	0.020
Modem 49913	1/28/2025 13:40	1/28/2025 13:50	0.014	0.014	0.015	0.015	0.015	0.021
Modem 49913	1/28/2025 13:30	1/28/2025 13:40	0.016	0.016	0.017	0.017	0.017	0.022
Modem 49913	1/28/2025 13:20	1/28/2025 13:30	0.016	0.017	0.017	0.017	0.017	0.024
Modem 49913	1/28/2025 13:10	1/28/2025 13:20	0.016	0.016	0.016	0.017	0.017	0.026
Modem 49913	1/28/2025 13:00	1/28/2025 13:10	0.014	0.015	0.015	0.015	0.015	0.027
Modem 49913	1/28/2025 12:50	1/28/2025 13:00	0.014	0.014	0.015	0.015	0.015	0.030
Modem 49913	1/28/2025 12:40	1/28/2025 12:50	0.015	0.015	0.015	0.016	0.016	0.029
Modem 49913	1/28/2025 12:30	1/28/2025 12:40	0.017	0.018	0.018	0.019	0.019	0.029
Modem 49913	1/28/2025 12:20	1/28/2025 12:30	0.024	0.024	0.024	0.025	0.025	0.027
Modem 49913	1/28/2025 12:10	1/28/2025 12:20	0.024	0.025	0.026	0.027	0.027	0.026
Modem 49913	1/28/2025 12:00	1/28/2025 12:10	0.026	0.027	0.027	0.028	0.028	0.024
Modem 49913	1/28/2025 11:50	1/28/2025 12:00	0.026	0.026	0.026	0.027	0.027	
Modem 49913	1/28/2025 11:40	1/28/2025 11:50	0.027	0.027	0.028	0.029	0.029	
Modem 49913	1/28/2025 11:30	1/28/2025 11:40	0.028	0.029	0.032	0.039	0.039	
Modem 49913	1/28/2025 11:20	1/28/2025 11:30	0.030	0.031	0.033	0.039	0.039	
Modem 49913	1/28/2025 11:10	1/28/2025 11:20	0.030	0.031	0.034	0.038	0.039	
Modem 49913	1/28/2025 11:00	1/28/2025 11:10	0.028	0.029	0.032	0.037	0.037	
Modem 49913	1/28/2025 10:50	1/28/2025 11:00	0.038	0.039	0.043	0.051	0.052	
Modem 49913	1/28/2025 10:40	1/28/2025 10:50	0.004	0.004	0.004	0.005	0.005	
Modem 49913	1/28/2025 10:30	1/28/2025 10:40	0.004	0.004	0.004	0.005	0.005	
Modem 49913	1/28/2025 10:20	1/28/2025 10:30	0.004	0.004	0.004	0.005	0.005	
Modem 49913	1/28/2025 10:10	1/28/2025 10:20	0.004	0.004	0.004	0.005	0.005	
Modem 49913	1/28/2025 10:00	1/28/2025 10:10	0.004	0.004	0.004	0.005	0.005	



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZSMO
Designed By:	BD
Checked By:	KH
Approved By:	JHKH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/16/23
0	ISSUED FOR BID	BD	10/16/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL
Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	52
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	29 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Units over excavated by Halme today were units 95, 106, and 114.

b. Confirmation Sampling: No confirmation samples collected today.

c. Backfill: Haley & Aldrich, Inc. (H&A) observed Halme scarifying and recompacting of the remaining uncovered portions of Lift No. 15 and backfilling of Lift No. 16 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 15 and deposited this soil in small stockpiles. By the end of the day, Lift No. 15 had been verified by H&A as adequately compacted; however, Lift No. 15 was not full covered by Lift No. 16 today and will need additional scarifying and compacting tomorrow. Soft spots were observed while compacting Lift No. 15. This area showed characteristics of high moisture content. These soft spots were removed by Halme at H&A's request and replaced with more suitable fill material. High moisture content soil was mixed with dry soil and placed within Lift No. 16.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of site work and DM 49913 was positioned downwind of site work. The relative humidity in the morning was approximately 75% and the wind was to the east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, while they temporarily exceeded the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to Halme operating a water truck in the haul areas periodically throughout the day.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 being out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	52
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	29 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

The following compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Depth	Test Result
15/1	2-4”	Pass
15/2	2-4”	Pass
15/3	2-4”	Pass
15/4	2-4”	Pass
15/5	2-4”	Pass
15/6	2-4”	Pass
15/7	4-6”	Pass
15/8	2-4”	Pass
15/9	16”	Fail
15/10	16”	Fail
15/11	16”	Fail
15/12 replacement for 15/9	4-6”	Pass
15/13	4-6”	Pass
15/14 replacement for 15/11	4-6”	Pass
15/15 replacement for 15/10	2-4”	Pass
15/16	2-4”	Pass
15/17	2-4"	Pass
15/18	2-4"	Pass
15/19	2-4"	Pass
15/20	2-4"	Pass
15/21	2-4"	Pass
15/22	2-4	Pass
15/23	2-4	Pass

Repository testing locations are attached

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	52
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	29 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	14-26°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	10.25 hours	0.75 hours	11.00 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_29_25_CAL_DFR_52/01_29_25_CAL_DFR.docx



Photo 01. Loose lift placed on previously compacted areas (view looking south).



Photo 02. Repository status at the start of the excavation day (view looking southwest).

Site Photographs – 29 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Compaction progress of the repository (view looking west).



Photo 04. Over excavation progress of listed units. Southern contaminated stockpile has been completely removed and deposited within the repository (view looking southeast).

Site Photographs – 29 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

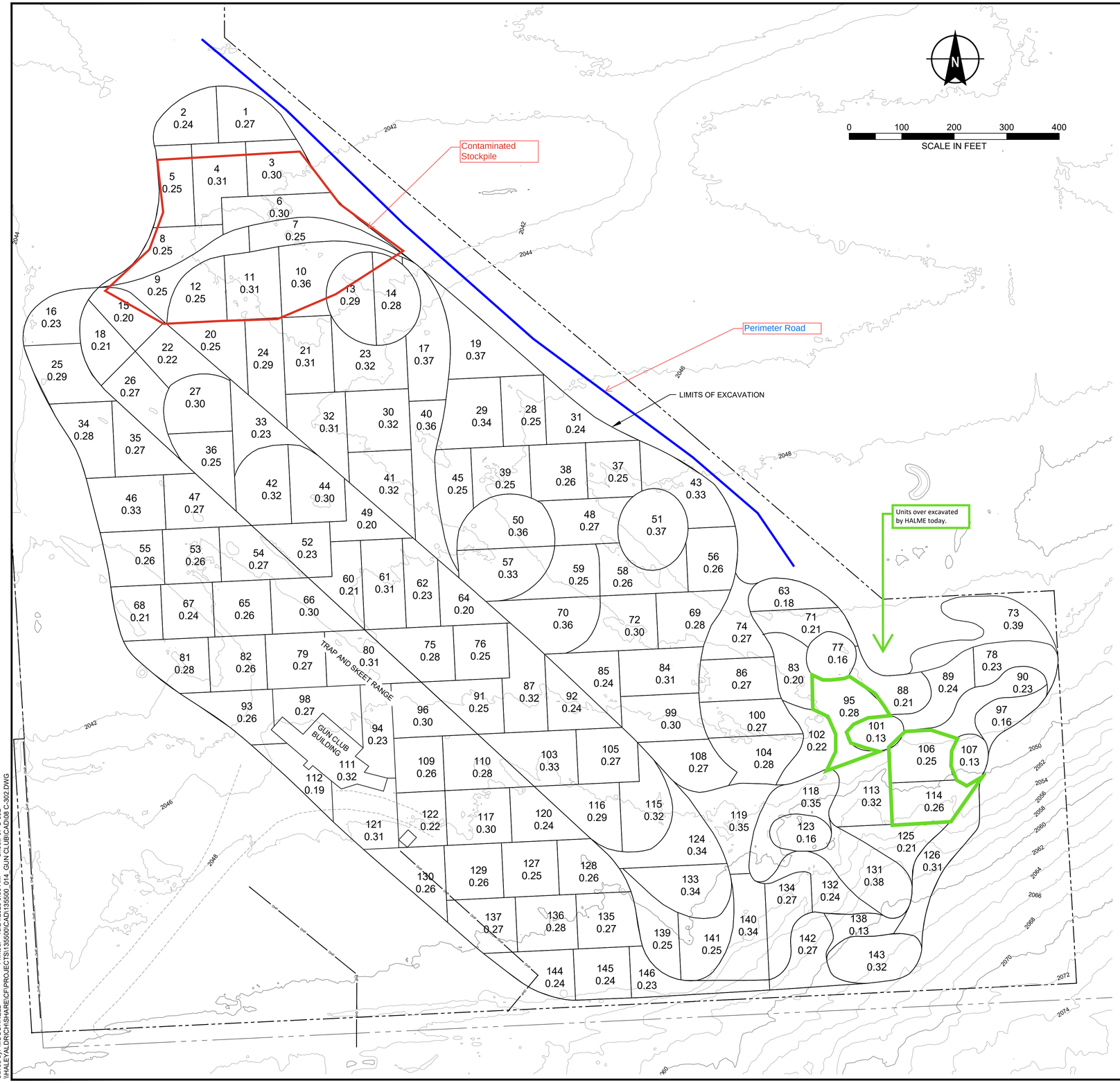
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Upwind			*Latest*	*Latest*	*Latest*	*Latest*	*Latest*	
Modem 47181	1/29/2025 19:20	1/29/2025 19:30	0.011	0.012	0.013	0.015	0.015	0.014
Modem 47181	1/29/2025 19:10	1/29/2025 19:20	0.01	0.01	0.011	0.014	0.014	0.013
Modem 47181	1/29/2025 19:00	1/29/2025 19:10	0.009	0.009	0.01	0.011	0.011	0.0115
Modem 47181	1/29/2025 18:50	1/29/2025 19:00	0.009	0.01	0.011	0.013	0.013	0.012
Modem 47181	1/29/2025 18:40	1/29/2025 18:50	0.009	0.01	0.01	0.012	0.012	0.0125
Modem 47181	1/29/2025 18:30	1/29/2025 18:40	0.009	0.01	0.01	0.011	0.011	0.012
Modem 47181	1/29/2025 18:20	1/29/2025 18:30	0.009	0.009	0.009	0.01	0.011	0.0115
Modem 47181	1/29/2025 18:10	1/29/2025 18:20	0.01	0.01	0.011	0.011	0.011	0.012
Modem 47181	1/29/2025 18:00	1/29/2025 18:10	0.009	0.009	0.01	0.01	0.01	0.011
Modem 47181	1/29/2025 17:50	1/29/2025 18:00	0.01	0.01	0.01	0.011	0.011	0.012
Modem 47181	1/29/2025 17:40	1/29/2025 17:50	0.01	0.011	0.011	0.011	0.011	0.0135
Modem 47181	1/29/2025 17:30	1/29/2025 17:40	0.011	0.011	0.012	0.013	0.013	0.0145
Modem 47181	1/29/2025 17:20	1/29/2025 17:30	0.011	0.011	0.012	0.012	0.013	0.015
Modem 47181	1/29/2025 17:10	1/29/2025 17:20	0.01	0.01	0.011	0.012	0.012	0.0145
Modem 47181	1/29/2025 17:00	1/29/2025 17:10	0.01	0.01	0.011	0.012	0.012	0.0165
Modem 47181	1/29/2025 16:50	1/29/2025 17:00	0.01	0.01	0.011	0.011	0.011	0.0155
Modem 47181	1/29/2025 16:40	1/29/2025 16:50	0.011	0.011	0.011	0.012	0.013	0.0185
Modem 47181	1/29/2025 16:30	1/29/2025 16:40	0.011	0.012	0.012	0.013	0.013	0.019
Modem 47181	1/29/2025 16:20	1/29/2025 16:30	0.011	0.011	0.011	0.012	0.012	0.018
Modem 47181	1/29/2025 16:10	1/29/2025 16:20	0.011	0.012	0.012	0.013	0.013	0.019
Modem 47181	1/29/2025 16:00	1/29/2025 16:10	0.011	0.011	0.012	0.012	0.012	0.0185
Modem 47181	1/29/2025 15:50	1/29/2025 16:00	0.012	0.013	0.013	0.013	0.013	0.0195
Modem 47181	1/29/2025 15:40	1/29/2025 15:50	0.015	0.015	0.015	0.016	0.016	0.0225
Modem 47181	1/29/2025 15:30	1/29/2025 15:40	0.015	0.015	0.015	0.016	0.016	0.023
Modem 47181	1/29/2025 15:20	1/29/2025 15:30	0.016	0.016	0.016	0.017	0.017	0.024
Modem 47181	1/29/2025 15:10	1/29/2025 15:20	0.016	0.016	0.017	0.017	0.017	0.024
Modem 47181	1/29/2025 15:00	1/29/2025 15:10	0.02	0.02	0.021	0.021	0.021	0.026
Modem 47181	1/29/2025 14:50	1/29/2025 15:00	0.018	0.019	0.019	0.02	0.02	0.025
Modem 47181	1/29/2025 14:40	1/29/2025 14:50	0.022	0.023	0.023	0.024	0.024	0.028
Modem 47181	1/29/2025 14:30	1/29/2025 14:40	0.023	0.024	0.024	0.025	0.025	0.028
Modem 47181	1/29/2025 14:20	1/29/2025 14:30	0.023	0.023	0.023	0.024	0.024	0.0285
Modem 47181	1/29/2025 14:10	1/29/2025 14:20	0.023	0.024	0.024	0.024	0.025	0.0275
Modem 47181	1/29/2025 14:00	1/29/2025 14:10	0.024	0.024	0.025	0.025	0.025	0.029
Modem 47181	1/29/2025 13:50	1/29/2025 14:00	0.025	0.025	0.026	0.026	0.026	0.0305
Modem 47181	1/29/2025 13:40	1/29/2025 13:50	0.027	0.027	0.028	0.028	0.029	0.0305
Modem 47181	1/29/2025 13:30	1/29/2025 13:40	0.029	0.029	0.03	0.03	0.03	0.029
Modem 47181	1/29/2025 13:20	1/29/2025 13:30	0.029	0.03	0.03	0.031	0.031	0.031
Modem 47181	1/29/2025 13:10	1/29/2025 13:20	0.03	0.03	0.03	0.031	0.031	0.0305
Modem 47181	1/29/2025 13:00	1/29/2025 13:10	0.03	0.03	0.031	0.031	0.031	0.035
Modem 47181	1/29/2025 12:50	1/29/2025 13:00	0.029	0.029	0.03	0.03	0.03	0.036
Modem 47181	1/29/2025 12:40	1/29/2025 12:50	0.031	0.032	0.032	0.032	0.032	0.037
Modem 47181	1/29/2025 12:30	1/29/2025 12:40	0.03	0.03	0.03	0.031	0.031	0.0385
Modem 47181	1/29/2025 12:20	1/29/2025 12:30	0.032	0.032	0.032	0.033	0.033	
Modem 47181	1/29/2025 12:10	1/29/2025 12:20	0.029	0.029	0.03	0.03	0.03	
Modem 47181	1/29/2025 12:00	1/29/2025 12:10	0.032	0.033	0.033	0.033	0.033	
Modem 47181	1/29/2025 11:50	1/29/2025 12:00	0.034	0.035	0.035	0.035	0.035	

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 47181	1/29/2025 11:40	1/29/2025 11:50	0.031	0.032	0.032	0.032	0.032	
Modem 47181	1/29/2025 11:30	1/29/2025 11:40	0.027	0.027	0.028	0.028	0.028	
Modem 47181	1/29/2025 11:20	1/29/2025 11:30	0.03	0.03	0.03	0.031	0.031	
Modem 47181	1/29/2025 11:10	1/29/2025 11:20	0.029	0.03	0.03	0.03	0.03	
Modem 47181	1/29/2025 11:00	1/29/2025 11:10	0.038	0.039	0.039	0.039	0.039	
Modem 47181	1/29/2025 10:50	1/29/2025 11:00	0.041	0.041	0.042	0.042	0.042	
Modem 47181	1/29/2025 10:40	1/29/2025 10:50	0.04	0.041	0.041	0.042	0.042	
Modem 47181	1/29/2025 10:30	1/29/2025 10:40	0.044	0.045	0.045	0.046	0.046	
Downwind								
Modem 49913	1/29/2025 19:20	1/29/2025 19:30	0.007	0.008	0.008	0.009	0.009	0.011
Modem 49913	1/29/2025 19:10	1/29/2025 19:20	0.009	0.01	0.011	0.014	0.014	0.0125
Modem 49913	1/29/2025 19:00	1/29/2025 19:10	0.014	0.016	0.019	0.027	0.028	0.0195
Modem 49913	1/29/2025 18:50	1/29/2025 19:00	0.008	0.008	0.009	0.01	0.01	0.013
Modem 49913	1/29/2025 18:40	1/29/2025 18:50	0.022	0.024	0.031	0.051	0.051	0.033
Modem 49913	1/29/2025 18:30	1/29/2025 18:40	0.007	0.008	0.009	0.01	0.01	0.0105
Modem 49913	1/29/2025 18:20	1/29/2025 18:30	0.009	0.009	0.01	0.011	0.011	0.011
Modem 49913	1/29/2025 18:10	1/29/2025 18:20	0.008	0.008	0.01	0.013	0.013	0.0125
Modem 49913	1/29/2025 18:00	1/29/2025 18:10	0.008	0.009	0.01	0.011	0.011	0.012
Modem 49913	1/29/2025 17:50	1/29/2025 18:00	0.012	0.013	0.015	0.021	0.021	0.0175
Modem 49913	1/29/2025 17:40	1/29/2025 17:50	0.011	0.012	0.013	0.016	0.017	0.016
Modem 49913	1/29/2025 17:30	1/29/2025 17:40	0.009	0.01	0.01	0.011	0.011	0.014
Modem 49913	1/29/2025 17:20	1/29/2025 17:30	0.01	0.011	0.012	0.013	0.013	0.015
Modem 49913	1/29/2025 17:10	1/29/2025 17:20	0.009	0.009	0.01	0.011	0.011	0.0155
Modem 49913	1/29/2025 17:00	1/29/2025 17:10	0.009	0.009	0.01	0.011	0.011	0.0165
Modem 49913	1/29/2025 16:50	1/29/2025 17:00	0.011	0.012	0.013	0.016	0.016	0.0195
Modem 49913	1/29/2025 16:40	1/29/2025 16:50	0.011	0.012	0.013	0.015	0.015	0.0205
Modem 49913	1/29/2025 16:30	1/29/2025 16:40	0.01	0.01	0.01	0.011	0.011	0.019
Modem 49913	1/29/2025 16:20	1/29/2025 16:30	0.01	0.01	0.01	0.011	0.011	0.019
Modem 49913	1/29/2025 16:10	1/29/2025 16:20	0.011	0.011	0.011	0.012	0.012	0.02
Modem 49913	1/29/2025 16:00	1/29/2025 16:10	0.012	0.012	0.012	0.013	0.013	0.02
Modem 49913	1/29/2025 15:50	1/29/2025 16:00	0.013	0.013	0.013	0.014	0.014	0.0225
Modem 49913	1/29/2025 15:40	1/29/2025 15:50	0.014	0.014	0.015	0.015	0.015	0.023
Modem 49913	1/29/2025 15:30	1/29/2025 15:40	0.016	0.016	0.016	0.017	0.017	0.0255
Modem 49913	1/29/2025 15:20	1/29/2025 15:30	0.015	0.016	0.016	0.017	0.017	0.0235
Modem 49913	1/29/2025 15:10	1/29/2025 15:20	0.019	0.019	0.019	0.02	0.02	0.0295
Modem 49913	1/29/2025 15:00	1/29/2025 15:10	0.02	0.02	0.021	0.022	0.022	0.033
Modem 49913	1/29/2025 14:50	1/29/2025 15:00	0.021	0.021	0.022	0.023	0.023	0.028
Modem 49913	1/29/2025 14:40	1/29/2025 14:50	0.025	0.025	0.025	0.026	0.026	0.032
Modem 49913	1/29/2025 14:30	1/29/2025 14:40	0.025	0.025	0.026	0.027	0.027	0.033
Modem 49913	1/29/2025 14:20	1/29/2025 14:30	0.026	0.026	0.026	0.027	0.027	0.031
Modem 49913	1/29/2025 14:10	1/29/2025 14:20	0.025	0.026	0.026	0.028	0.028	0.0305
Modem 49913	1/29/2025 14:00	1/29/2025 14:10	0.026	0.026	0.026	0.027	0.027	0.034
Modem 49913	1/29/2025 13:50	1/29/2025 14:00	0.028	0.029	0.03	0.031	0.031	0.0365
Modem 49913	1/29/2025 13:40	1/29/2025 13:50	0.029	0.029	0.03	0.031	0.031	0.032
Modem 49913	1/29/2025 13:30	1/29/2025 13:40	0.03	0.03	0.031	0.034	0.034	0.0375
Modem 49913	1/29/2025 13:20	1/29/2025 13:30	0.029	0.029	0.03	0.03	0.03	0.033
Modem 49913	1/29/2025 13:10	1/29/2025 13:20	0.033	0.034	0.036	0.039	0.039	0.036

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/29/2025 13:00	1/29/2025 13:10	0.036	0.037	0.039	0.044	0.044	0.0435
Modem 49913	1/29/2025 12:50	1/29/2025 13:00	0.031	0.031	0.032	0.033	0.033	0.04
Modem 49913	1/29/2025 12:40	1/29/2025 12:50	0.034	0.035	0.036	0.038	0.038	0.043
Modem 49913	1/29/2025 12:30	1/29/2025 12:40	0.034	0.035	0.036	0.039	0.039	0.0455
Modem 49913	1/29/2025 12:20	1/29/2025 12:30	0.032	0.033	0.033	0.035	0.035	
Modem 49913	1/29/2025 12:10	1/29/2025 12:20	0.031	0.031	0.032	0.033	0.033	
Modem 49913	1/29/2025 12:00	1/29/2025 12:10	0.036	0.037	0.038	0.041	0.041	
Modem 49913	1/29/2025 11:50	1/29/2025 12:00	0.037	0.038	0.039	0.042	0.042	
Modem 49913	1/29/2025 11:40	1/29/2025 11:50	0.03	0.031	0.032	0.033	0.033	
Modem 49913	1/29/2025 11:30	1/29/2025 11:40	0.033	0.034	0.037	0.041	0.041	
Modem 49913	1/29/2025 11:20	1/29/2025 11:30	0.034	0.034	0.035	0.036	0.036	
Modem 49913	1/29/2025 11:10	1/29/2025 11:20	0.032	0.032	0.032	0.033	0.033	
Modem 49913	1/29/2025 11:00	1/29/2025 11:10	0.041	0.042	0.042	0.043	0.043	
Modem 49913	1/29/2025 10:50	1/29/2025 11:00	0.045	0.046	0.047	0.047	0.047	
Modem 49913	1/29/2025 10:40	1/29/2025 10:50	0.046	0.047	0.048	0.048	0.048	
Modem 49913	1/29/2025 10:30	1/29/2025 10:40	0.05	0.051	0.051	0.052	0.052	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.13
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
29 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

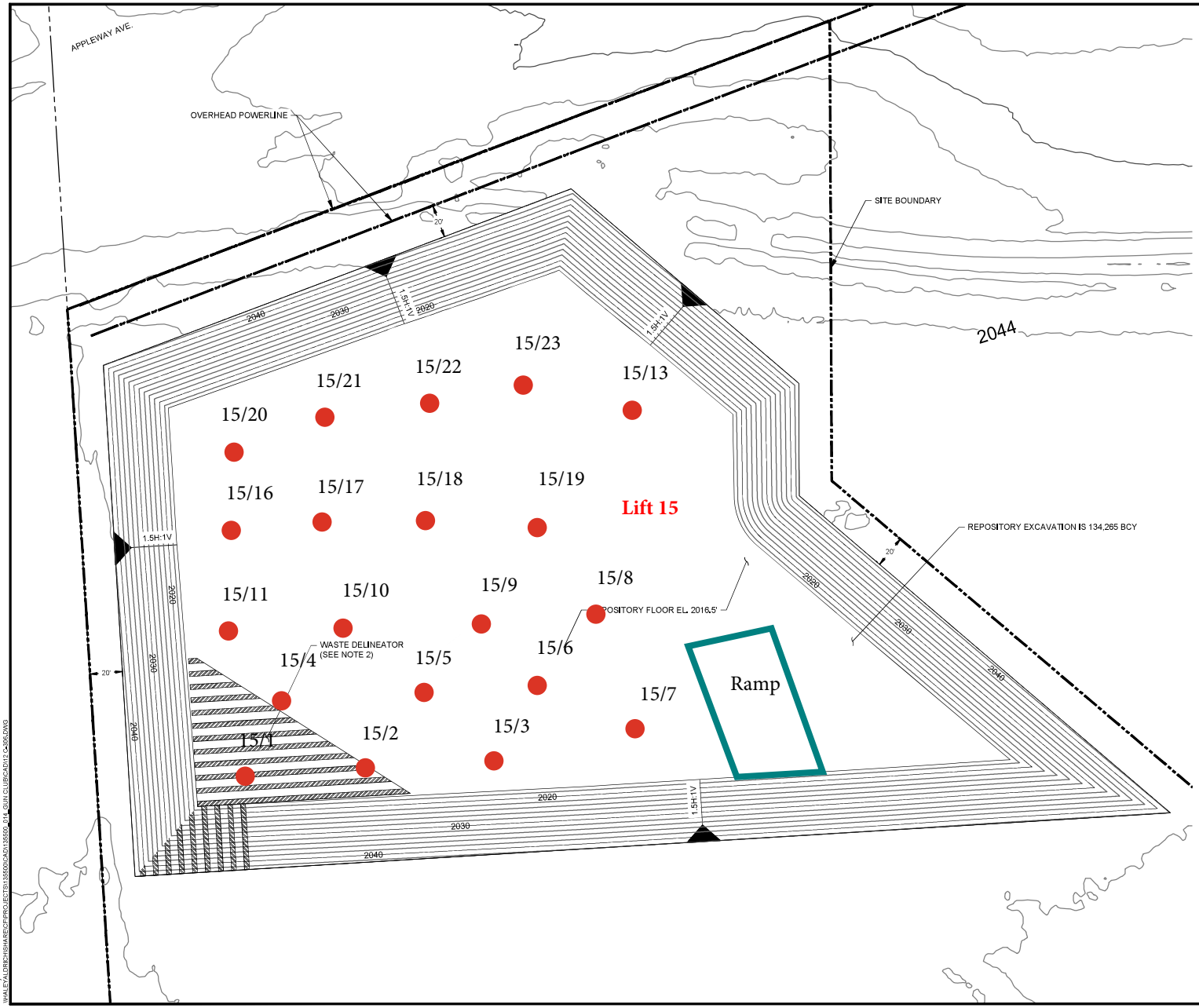
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

29 January 2025

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

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Sheet: 11 C-306

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	52
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	30 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	19-30°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme began over excavation of the southern portion of the 7-foot cut area at approximate Sample Unit 116. This material was transported directly into the repository.

b. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of the remaining uncovered portions of Lift No. 15 and backfilling of Lift No. 16 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 16 and deposited this soil in small stockpiles. By the end of the day, Lift No. 15 had been cleared as adequately compacted and covered by Lift No. 16. Lift No. 16 was partially tested today, requiring further scarifying and compaction testing tomorrow

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 82% and the wind was from east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary, while they temporarily exceeded the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. This exceedance can be attributed to humidity based on readings from both upwind and downwind monitors being similar in value. Site observations indicated that dust was controlled effectively due to Halme operating a water truck in the haul areas periodically throughout the day.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 being out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The follow compaction tests were performed today:

Table 1. Compaction Test Results

Test Number	Test Depth	Test Result
15/1	2-4”	Pass
15/2	2-4”	Pass
15/3	2-4”	Pass
15/4	2-4”	Pass

Table 1. Compaction Test Results

Test Number	Test Depth	Test Result
15/5	4-6”	Pass
15/6	4-6”	Pass
15/7	2-4”	Pass
15/8	2-4”	Pass
16/1	2-4”	Pass
16/2	2-4”	Pass
16/3	2-4”	Pass
16/4	2-4”	Pass
16/5	2-4”	Pass
16/6	4-6”	Pass
16/7	2-4”	Pass
16/8	4-6”	Pass
16/9	4-6"	Pass
16/10	2-4"	Pass
16/11	4-6"	Pass

Areas tested for Lift No. 14 were covered with Lift No. 15 after passing compaction testing. Repository testing locations are attached.

IV. ENVIRONMENTAL SAMPLING:

No confirmation samples were collected today.

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	52
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	30 January 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	19-30°F

Field Representative(s)	Time on Site	Report/Travel/Other	Total
Cameron Luckey	10.0 hours	1.0 hours	11.0 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/01 - January/01_30_25_CAL_DFR_53/01_30_25_CAL_DFR.docx



Photo 01. Repository backfill progress (view looking northwest).



Photo 02. Repository backfill progress (view looking north).

Site Photographs – 30 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Halme Construction, Inc. (Halme) compacting Lift No. 16 within the repository (view looking northeast).



Photo 04. Approximate Sample Unit 116 being excavated by Halme (view looking southwest).

Site Photographs – 30 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

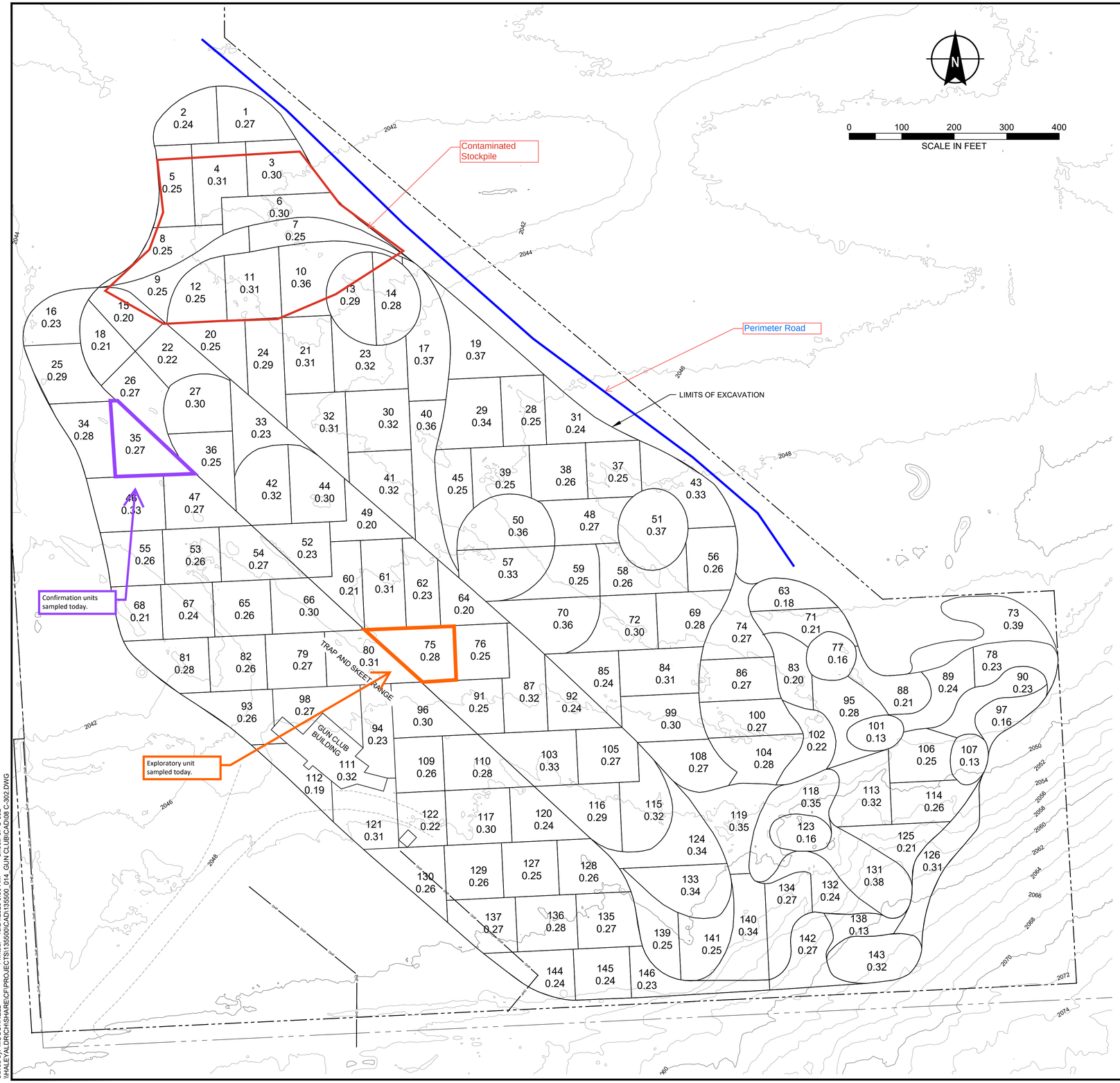
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Upwind								
Modem 47181	1/30/2025 19:20	1/30/2025 19:30	0.018	0.019	0.02	0.023	0.023	0.017
Modem 47181	1/30/2025 19:10	1/30/2025 19:20	0.018	0.019	0.02	0.023	0.024	0.017
Modem 47181	1/30/2025 19:00	1/30/2025 19:10	0.015	0.016	0.018	0.02	0.02	0.016
Modem 47181	1/30/2025 18:50	1/30/2025 19:00	0.005	0.005	0.006	0.007	0.007	0.009
Modem 47181	1/30/2025 18:40	1/30/2025 18:50	0.004	0.004	0.004	0.005	0.006	0.010
Modem 47181	1/30/2025 18:30	1/30/2025 18:40	0.006	0.006	0.008	0.011	0.011	0.012
Modem 47181	1/30/2025 18:20	1/30/2025 18:30	0.006	0.006	0.007	0.007	0.007	0.009
Modem 47181	1/30/2025 18:10	1/30/2025 18:20	0.003	0.003	0.004	0.004	0.004	0.009
Modem 47181	1/30/2025 18:00	1/30/2025 18:10	0.003	0.003	0.003	0.004	0.004	0.009
Modem 47181	1/30/2025 17:50	1/30/2025 18:00	0.005	0.005	0.006	0.007	0.007	0.011
Modem 47181	1/30/2025 17:40	1/30/2025 17:50	0.006	0.007	0.007	0.008	0.008	0.012
Modem 47181	1/30/2025 17:30	1/30/2025 17:40	0.01	0.01	0.011	0.012	0.012	0.014
Modem 47181	1/30/2025 17:20	1/30/2025 17:30	0.008	0.009	0.009	0.01	0.01	0.013
Modem 47181	1/30/2025 17:10	1/30/2025 17:20	0.008	0.008	0.009	0.009	0.009	0.013
Modem 47181	1/30/2025 17:00	1/30/2025 17:10	0.009	0.01	0.01	0.011	0.011	0.015
Modem 47181	1/30/2025 16:50	1/30/2025 17:00	0.009	0.01	0.01	0.011	0.011	0.015
Modem 47181	1/30/2025 16:40	1/30/2025 16:50	0.01	0.011	0.012	0.012	0.013	0.016
Modem 47181	1/30/2025 16:30	1/30/2025 16:40	0.009	0.01	0.01	0.012	0.012	0.015
Modem 47181	1/30/2025 16:20	1/30/2025 16:30	0.009	0.01	0.01	0.011	0.011	0.014
Modem 47181	1/30/2025 16:10	1/30/2025 16:20	0.011	0.011	0.012	0.013	0.014	0.015
Modem 47181	1/30/2025 16:00	1/30/2025 16:10	0.011	0.012	0.012	0.014	0.014	0.015
Modem 47181	1/30/2025 15:50	1/30/2025 16:00	0.011	0.012	0.013	0.015	0.015	0.016
Modem 47181	1/30/2025 15:40	1/30/2025 15:50	0.012	0.012	0.013	0.015	0.015	0.016
Modem 47181	1/30/2025 15:30	1/30/2025 15:40	0.013	0.014	0.014	0.016	0.016	0.017
Modem 47181	1/30/2025 15:20	1/30/2025 15:30	0.013	0.014	0.014	0.015	0.015	0.017
Modem 47181	1/30/2025 15:10	1/30/2025 15:20	0.014	0.015	0.015	0.016	0.016	0.017
Modem 47181	1/30/2025 15:00	1/30/2025 15:10	0.016	0.016	0.017	0.018	0.018	0.018
Modem 47181	1/30/2025 14:50	1/30/2025 15:00	0.016	0.016	0.017	0.018	0.018	0.018
Modem 47181	1/30/2025 14:40	1/30/2025 14:50	0.015	0.016	0.016	0.018	0.018	0.018
Modem 47181	1/30/2025 14:30	1/30/2025 14:40	0.015	0.016	0.017	0.018	0.018	0.018
Modem 47181	1/30/2025 14:20	1/30/2025 14:30	0.015	0.015	0.016	0.016	0.016	0.017
Modem 47181	1/30/2025 14:10	1/30/2025 14:20	0.015	0.015	0.016	0.016	0.016	0.018
Modem 47181	1/30/2025 14:00	1/30/2025 14:10	0.015	0.015	0.015	0.016	0.016	0.018
Modem 47181	1/30/2025 13:50	1/30/2025 14:00	0.015	0.016	0.016	0.017	0.017	0.021
Modem 47181	1/30/2025 13:40	1/30/2025 13:50	0.016	0.016	0.017	0.017	0.017	0.021
Modem 47181	1/30/2025 13:30	1/30/2025 13:40	0.016	0.016	0.017	0.017	0.017	0.023
Modem 47181	1/30/2025 13:20	1/30/2025 13:30	0.017	0.017	0.017	0.018	0.018	0.021
Modem 47181	1/30/2025 13:10	1/30/2025 13:20	0.017	0.018	0.018	0.018	0.018	0.022
Modem 47181	1/30/2025 13:00	1/30/2025 13:10	0.017	0.017	0.017	0.018	0.018	0.031
Modem 47181	1/30/2025 12:50	1/30/2025 13:00	0.017	0.017	0.017	0.018	0.018	0.025
Modem 47181	1/30/2025 12:40	1/30/2025 12:50	0.016	0.017	0.017	0.017	0.017	0.025
Modem 47181	1/30/2025 12:30	1/30/2025 12:40	0.017	0.017	0.018	0.018	0.018	0.024
Modem 47181	1/30/2025 12:20	1/30/2025 12:30	0.018	0.018	0.018	0.018	0.018	
Modem 47181	1/30/2025 12:10	1/30/2025 12:20	0.019	0.019	0.02	0.02	0.02	
Modem 47181	1/30/2025 12:00	1/30/2025 12:10	0.019	0.019	0.02	0.02	0.02	

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Modem 47181	1/30/2025 11:50	1/30/2025 12:00	0.023	0.023	0.024	0.025	0.025	
Modem 47181	1/30/2025 11:40	1/30/2025 11:50	0.024	0.024	0.025	0.025	0.025	
Modem 47181	1/30/2025 11:30	1/30/2025 11:40	0.026	0.027	0.027	0.028	0.028	
Modem 47181	1/30/2025 11:20	1/30/2025 11:30	0.022	0.022	0.023	0.023	0.023	
Modem 47181	1/30/2025 11:10	1/30/2025 11:20	0.025	0.025	0.026	0.026	0.026	
Modem 47181	1/30/2025 11:00	1/30/2025 11:10	0.037	0.037	0.039	0.042	0.043	
Modem 47181	1/30/2025 10:50	1/30/2025 11:00	0.03	0.03	0.031	0.031	0.031	
Modem 47181	1/30/2025 10:40	1/30/2025 10:50	0.032	0.032	0.033	0.033	0.033	
Modem 47181	1/30/2025 10:30	1/30/2025 10:40	0.028	0.028	0.029	0.029	0.029	
Downwind								
Modem 49913	1/30/2025 19:20	1/30/2025 19:30	0.021	0.022	0.024	0.03	0.03	0.019
Modem 49913	1/30/2025 19:10	1/30/2025 19:20	0.015	0.016	0.016	0.018	0.019	0.018
Modem 49913	1/30/2025 19:00	1/30/2025 19:10	0.015	0.015	0.016	0.018	0.018	0.014
Modem 49913	1/30/2025 18:50	1/30/2025 19:00	0.001	0.001	0.001	0.002	0.002	0.006
Modem 49913	1/30/2025 18:40	1/30/2025 18:50	0.001	0.001	0.001	0.002	0.002	0.006
Modem 49913	1/30/2025 18:30	1/30/2025 18:40	0.001	0.001	0.002	0.003	0.003	0.009
Modem 49913	1/30/2025 18:20	1/30/2025 18:30	0	0	0	0.001	0.001	0.015
Modem 49913	1/30/2025 18:10	1/30/2025 18:20	0	0	0	0.001	0.001	0.006
Modem 49913	1/30/2025 18:00	1/30/2025 18:10	0	0	0	0	0	0.008
Modem 49913	1/30/2025 17:50	1/30/2025 18:00	0	0	0	0.001	0.001	0.010
Modem 49913	1/30/2025 17:40	1/30/2025 17:50	0.005	0.006	0.006	0.008	0.008	0.012
Modem 49913	1/30/2025 17:30	1/30/2025 17:40	0.009	0.009	0.011	0.014	0.014	0.014
Modem 49913	1/30/2025 17:20	1/30/2025 17:30	0.006	0.006	0.007	0.008	0.008	0.011
Modem 49913	1/30/2025 17:10	1/30/2025 17:20	0.008	0.008	0.011	0.017	0.017	0.017
Modem 49913	1/30/2025 17:00	1/30/2025 17:10	0.006	0.006	0.007	0.009	0.009	0.025
Modem 49913	1/30/2025 16:50	1/30/2025 17:00	0.007	0.007	0.008	0.009	0.009	0.013
Modem 49913	1/30/2025 16:40	1/30/2025 16:50	0.007	0.007	0.008	0.009	0.01	0.020
Modem 49913	1/30/2025 16:30	1/30/2025 16:40	0.009	0.009	0.011	0.014	0.014	0.015
Modem 49913	1/30/2025 16:20	1/30/2025 16:30	0.014	0.015	0.018	0.027	0.028	0.024
Modem 49913	1/30/2025 16:10	1/30/2025 16:20	0.008	0.008	0.009	0.011	0.011	0.022
Modem 49913	1/30/2025 16:00	1/30/2025 16:10	0.01	0.01	0.012	0.015	0.015	0.015
Modem 49913	1/30/2025 15:50	1/30/2025 16:00	0.011	0.012	0.014	0.018	0.018	0.017
Modem 49913	1/30/2025 15:40	1/30/2025 15:50	0.011	0.011	0.012	0.015	0.015	0.017
Modem 49913	1/30/2025 15:30	1/30/2025 15:40	0.011	0.011	0.012	0.013	0.013	0.015
Modem 49913	1/30/2025 15:20	1/30/2025 15:30	0.012	0.012	0.013	0.014	0.014	0.016
Modem 49913	1/30/2025 15:10	1/30/2025 15:20	0.014	0.014	0.015	0.016	0.016	0.016
Modem 49913	1/30/2025 15:00	1/30/2025 15:10	0.022	0.023	0.027	0.04	0.041	0.029
Modem 49913	1/30/2025 14:50	1/30/2025 15:00	0.014	0.014	0.014	0.016	0.016	0.017
Modem 49913	1/30/2025 14:40	1/30/2025 14:50	0.018	0.019	0.022	0.029	0.029	0.023
Modem 49913	1/30/2025 14:30	1/30/2025 14:40	0.014	0.014	0.015	0.016	0.016	0.021
Modem 49913	1/30/2025 14:20	1/30/2025 14:30	0.015	0.015	0.016	0.018	0.019	0.020
Modem 49913	1/30/2025 14:10	1/30/2025 14:20	0.024	0.025	0.027	0.032	0.032	0.027
Modem 49913	1/30/2025 14:00	1/30/2025 14:10	0.014	0.014	0.015	0.015	0.015	0.019
Modem 49913	1/30/2025 13:50	1/30/2025 14:00	0.014	0.014	0.015	0.015	0.015	0.017
Modem 49913	1/30/2025 13:40	1/30/2025 13:50	0.016	0.016	0.016	0.018	0.018	0.021
Modem 49913	1/30/2025 13:30	1/30/2025 13:40	0.014	0.014	0.015	0.016	0.016	0.019

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	1/30/2025 13:20	1/30/2025 13:30	0.016	0.016	0.017	0.017	0.017	0.022
Modem 49913	1/30/2025 13:10	1/30/2025 13:20	0.016	0.016	0.016	0.016	0.016	0.021
Modem 49913	1/30/2025 13:00	1/30/2025 13:10	0.016	0.016	0.016	0.017	0.017	0.023
Modem 49913	1/30/2025 12:50	1/30/2025 13:00	0.016	0.016	0.016	0.017	0.017	0.040
Modem 49913	1/30/2025 12:40	1/30/2025 12:50	0.015	0.015	0.015	0.016	0.016	0.029
Modem 49913	1/30/2025 12:30	1/30/2025 12:40	0.021	0.021	0.022	0.025	0.025	0.034
Modem 49913	1/30/2025 12:20	1/30/2025 12:30	0.018	0.019	0.019	0.02	0.02	
Modem 49913	1/30/2025 12:10	1/30/2025 12:20	0.019	0.019	0.02	0.021	0.021	
Modem 49913	1/30/2025 12:00	1/30/2025 12:10	0.02	0.02	0.021	0.023	0.023	
Modem 49913	1/30/2025 11:50	1/30/2025 12:00	0.017	0.018	0.018	0.019	0.019	
Modem 49913	1/30/2025 11:40	1/30/2025 11:50	0.021	0.021	0.022	0.023	0.023	
Modem 49913	1/30/2025 11:30	1/30/2025 11:40	0.021	0.022	0.022	0.022	0.022	
Modem 49913	1/30/2025 11:20	1/30/2025 11:30	0.023	0.023	0.024	0.027	0.027	
Modem 49913	1/30/2025 11:10	1/30/2025 11:20	0.023	0.023	0.024	0.025	0.025	
Modem 49913	1/30/2025 11:00	1/30/2025 11:10	0.027	0.027	0.028	0.028	0.028	
Modem 49913	1/30/2025 10:50	1/30/2025 11:00	0.044	0.046	0.051	0.063	0.063	
Modem 49913	1/30/2025 10:40	1/30/2025 10:50	0.04	0.041	0.041	0.042	0.042	
Modem 49913	1/30/2025 10:30	1/30/2025 10:40	0.038	0.039	0.04	0.042	0.042	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan Markup
CAL
27 Jan 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

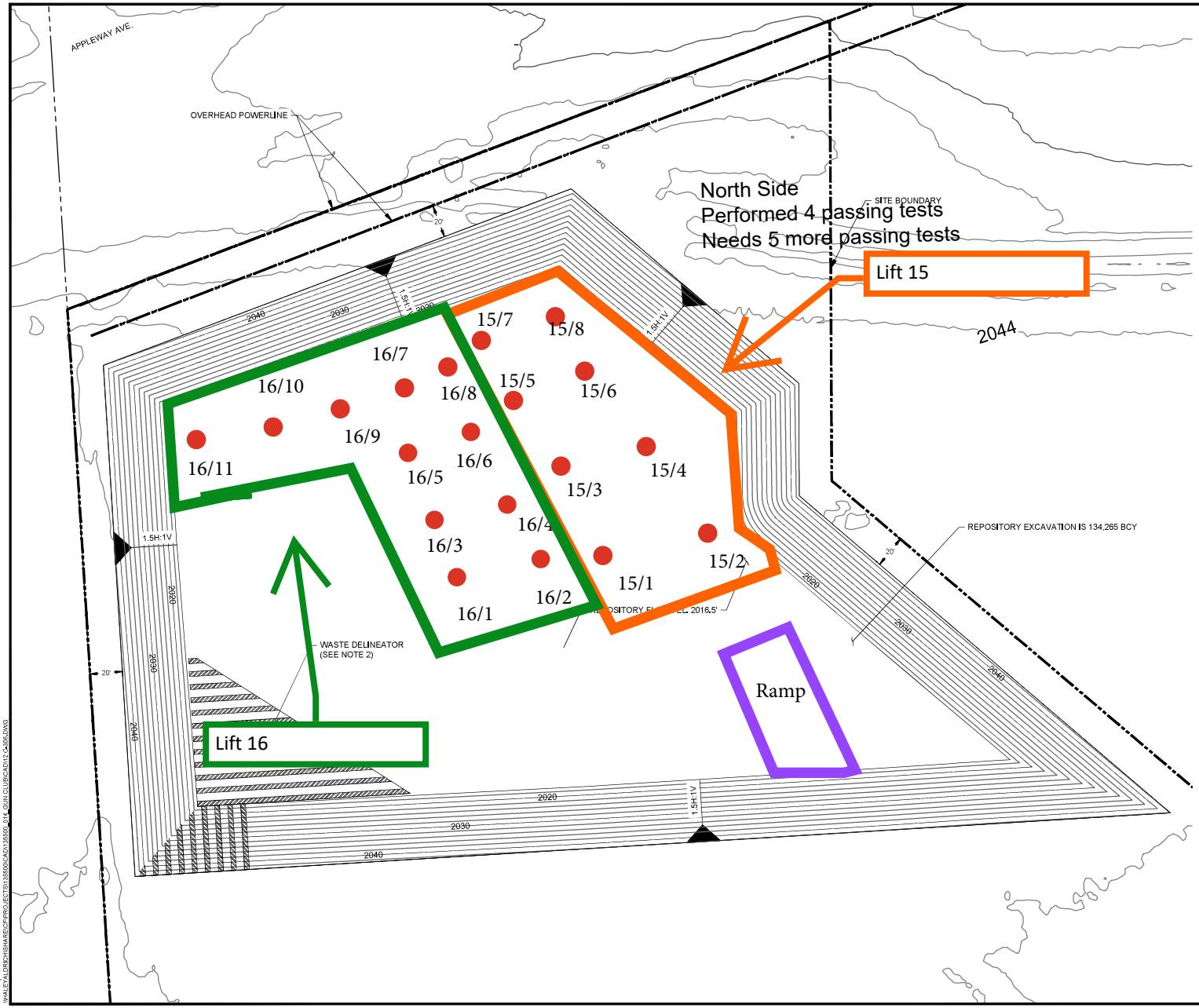
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	54
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	31 January 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Rainy	**Temperature**	35-38°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Haley & Aldrich, Inc. (H&A) observed further excavation of the 7-foot cut running southeast to northwest across the Site, with both ends of this channel being excavated by Halme simultaneously. Excavation was completed to 3.5-4 feet below ground surface using color to guide excavation extent. The soil excavated from this area was then taken directly to the repository as backfill.

b. Backfill: H&A observed compacting of Lift No. 15, backfilling and compacting of Lift No. 16, and loose backfilling of Lift No. 17 in the repository. As different areas of the repository were verified as adequately compacted, Halme brought in fill to the repository for Lift No. 16 and Lift No. 17 and deposited this soil in small stockpiles. By the end of the day, Lift No. 15 had been completely cleared as adequately compacted, while Lift No. 16 had been cleared in the western sections of the repository, with the cleared areas being covered by Lift No. 16 and Lift No. 17 stockpiles.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of excavation and backfill today and operated from 07:45 to 16:45. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 95% and the wind was to the north.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. While some of the readings were slightly unusual, dipping into the negatives toward the end of the day, the rainy weather conditions and general dust monitor precision account for these inconsistencies. Overall, Site and weather observations indicated that dust was well-controlled. Dust monitoring data is attached.

III. COMPACTION TESTING:

Due to the Troxler E-Gauge 4590 being out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The follow compaction tests were performed today:

Table 1. Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
15/1	East Side	08:30	2-6”	Pass
15/2	East Side	08:30	2-6”	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	54
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	31 January 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Rainy	**Temperature**	35-38°F

Table 1. Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
15/3	East Side	08:30	2-6”	Pass
15/4	East Side	08:30	2-6”	Pass
15/5	East Wall	08:30	2-6”	Pass
15/6	East Wall	08:30	2-6”	Pass
15/7	East Wall	08:30	2-6”	Pass
15/8	East Wall	08:30	2-6”	Pass
16/1	West Wall	10:45	2-6”	Pass
16/2	West Wall	10:45	2-6”	Pass
16/3	West Wall	10:45	>6”	Fail
16/4	West Wall	10:45	>6”	Fail
16/5	West Side	10:45	2-6”	Pass
16/6	West Side	10:45	2-6”	Pass
16/7	West Side	10:45	>6”	Fail
16/8	West Side	10:45	>6”	Fail
16/9	West Wall	11:30	2-6”	Pass
16/10	West Wall	11:30	2-6”	Pass
16/11	West Side	11:30	2-6”	Pass
16/12	West Side	11:30	2-6”	Pass
16/13	Centerline West	12:00	2-6”	Pass
16/14	Centerline West	12:00	2-6”	Pass
16/15	Centerline West	12:00	>6”	Fail
16/16	Centerline West	12:00	2-6”	Pass
16/17	Centerline West	12:00	2-6”	Pass
16/18	Centerline	13:00	2-6”	Pass
16/19	Centerline	13:00	2-6”	Pass
16/20	Centerline	13:00	2-6”	Pass
16/21	Centerline	13:00	2-6”	Pass
16/22	Centerline	13:00	2-6”	Pass
16/23	Centerline	13:00	2-6”	Pass
16/24	Centerline	13:00	2-6”	Pass
16/25	Centerline	13:00	2-6”	Pass
16/26	Centerline	13:00	2-6”	Pass
16/27	Centerline	13:00	2-6”	Pass

These tests yielded a total of eight passing results across the sections of Lift No. 15 listed above and a total of 22 passing results across the sections of Lift No. 16 listed above. Because the east sections of the repository were not compacted or tested for Lift No. 16 today, Halme was instructed to not put any fill for Lift No. 17 on this side of the repository until it had been compacted, tested, and cleared.

IV. CONFIRMATION SAMPLING:

No confirmation samples were taken today.

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 15 and Lift No. 16 compaction process, issuing guidance on which areas needed to be recompacted.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden	10 hours	2 hours	12 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan
Attachment E – Repository Subgrade Excavation Plan (Sections)

Haley & Aldrich, Inc.



Photo 01. Halme Construction, Inc. (Halme) conducting equipment repair.



Photo 02. Large frozen soil masses in repository fill. Halme was instructed to pulverize these before material placement.

Site Photographs – 31 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Contaminated soil excavation on east side of the 7-foot cut (view looking northwest).



Photo 04. Contaminated soil excavation on west side of the 7-foot cut (view looking northwest).

Site Photographs – 31 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 05. Excavation progress – north side of 7-foot cut (view looking northwest).



Photo 06. Repository at the end of the day (view looking south).

Site Photographs – 31 January 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

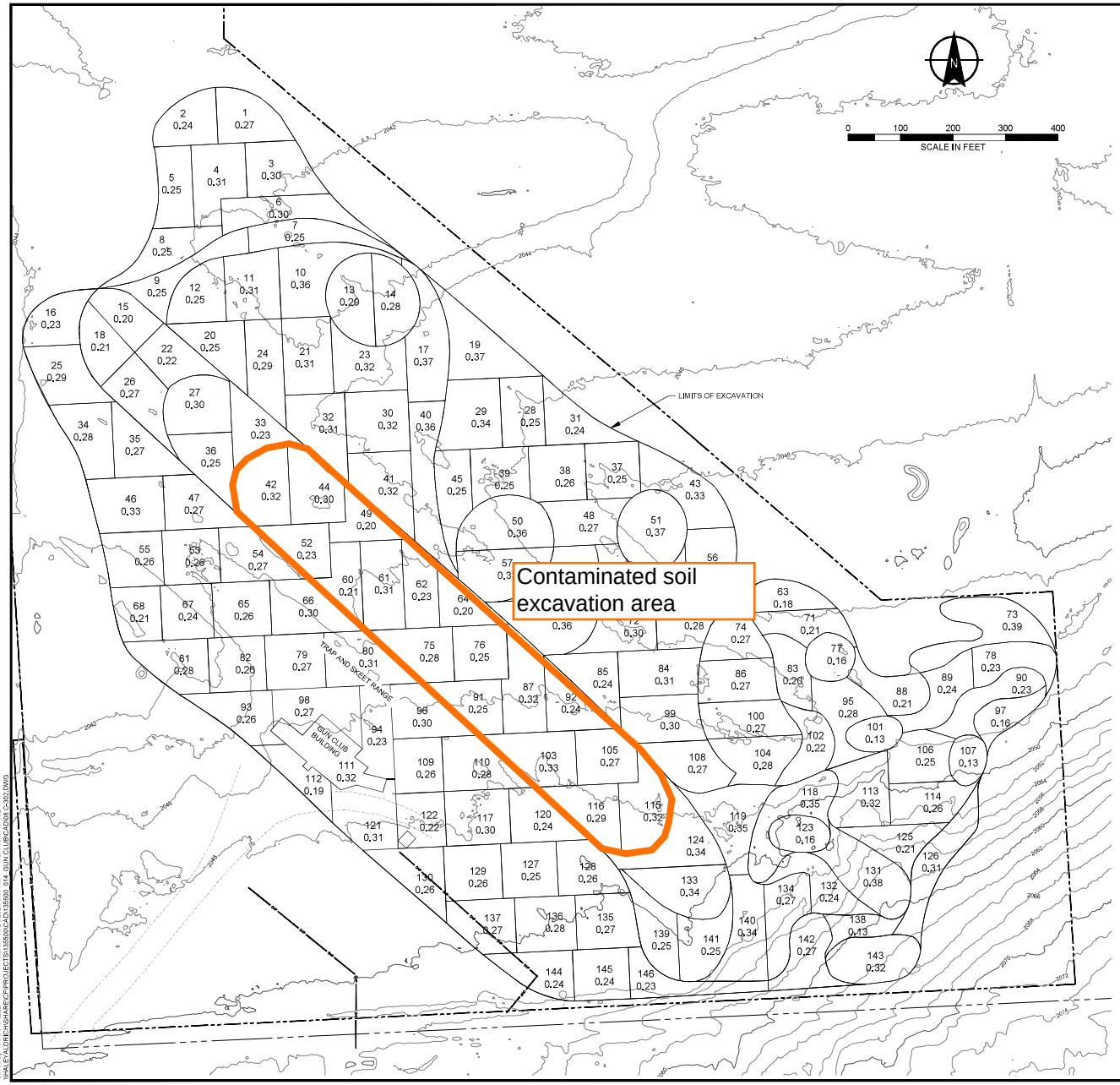
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	1/31/2025 20:50	1/31/2025 21:00	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
Modem 47181	1/31/2025 20:40	1/31/2025 20:50	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
Modem 47181	1/31/2025 20:30	1/31/2025 20:40	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
Modem 47181	1/31/2025 20:20	1/31/2025 20:30	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 20:10	1/31/2025 20:20	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 20:00	1/31/2025 20:10	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 19:50	1/31/2025 20:00	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 19:40	1/31/2025 19:50	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 19:30	1/31/2025 19:40	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 19:20	1/31/2025 19:30	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 19:10	1/31/2025 19:20	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 19:00	1/31/2025 19:10	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 18:50	1/31/2025 19:00	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 18:40	1/31/2025 18:50	0.000	0.000	0.000	0.001	0.001	0.000
Modem 47181	1/31/2025 18:30	1/31/2025 18:40	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 18:20	1/31/2025 18:30	0.000	0.000	0.000	0.000	0.000	0.004
Modem 47181	1/31/2025 18:10	1/31/2025 18:20	0.000	0.000	0.000	0.000	0.000	0.004
Modem 47181	1/31/2025 18:00	1/31/2025 18:10	0.000	0.000	0.000	0.001	0.001	0.004
Modem 47181	1/31/2025 17:50	1/31/2025 18:00	0.000	0.000	0.000	0.000	0.000	0.004
Modem 47181	1/31/2025 17:40	1/31/2025 17:50	0.002	0.002	0.002	0.002	0.002	0.004
Modem 47181	1/31/2025 17:30	1/31/2025 17:40	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 17:20	1/31/2025 17:30	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 17:10	1/31/2025 17:20	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 17:00	1/31/2025 17:10	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 16:50	1/31/2025 17:00	0.000	0.000	0.000	0.000	0.000	0.003
Modem 47181	1/31/2025 16:40	1/31/2025 16:50	0.000	0.000	0.000	0.001	0.001	0.002
Modem 47181	1/31/2025 16:30	1/31/2025 16:40	0.032	0.033	0.033	0.033	0.033	0.002
Modem 47181	1/31/2025 16:20	1/31/2025 16:30	0.009	0.009	0.009	0.009	0.009	0.000
Modem 47181	1/31/2025 16:10	1/31/2025 16:20	0.002	0.003	0.003	0.003	0.003	-0.001
Modem 47181	1/31/2025 16:00	1/31/2025 16:10	0.000	0.000	0.000	0.000	0.000	-0.001
Modem 47181	1/31/2025 15:50	1/31/2025 16:00	0.000	0.000	0.000	0.000	0.000	-0.001
Modem 47181	1/31/2025 15:40	1/31/2025 15:50	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 15:30	1/31/2025 15:40	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
Modem 47181	1/31/2025 15:20	1/31/2025 15:30	-0.002	-0.002	-0.002	-0.002	-0.002	0.000
Modem 47181	1/31/2025 15:10	1/31/2025 15:20	0.000	0.000	0.000	0.000	0.000	0.000
Modem 47181	1/31/2025 15:00	1/31/2025 15:10	-0.003	-0.003	-0.003	-0.003	-0.003	0.000
Modem 47181	1/31/2025 14:50	1/31/2025 15:00	-0.003	-0.003	-0.003	-0.003	-0.003	0.001
Modem 47181	1/31/2025 14:40	1/31/2025 14:50	-0.003	-0.003	-0.002	-0.002	-0.002	0.001
Modem 47181	1/31/2025 14:30	1/31/2025 14:40	0.000	0.000	0.000	0.000	0.000	0.002
Modem 47181	1/31/2025 14:20	1/31/2025 14:30	-0.001	-0.001	-0.001	-0.001	-0.001	0.002
Modem 47181	1/31/2025 14:10	1/31/2025 14:20	-0.002	-0.002	-0.002	-0.002	-0.002	0.003
Modem 47181	1/31/2025 14:00	1/31/2025 14:10	0.001	0.001	0.002	0.002	0.002	0.003
Modem 47181	1/31/2025 13:50	1/31/2025 14:00	0.002	0.002	0.002	0.002	0.002	0.004
Modem 47181	1/31/2025 13:40	1/31/2025 13:50	0.001	0.001	0.001	0.001	0.001	0.005
Modem 47181	1/31/2025 13:30	1/31/2025 13:40	0.003	0.003	0.003	0.003	0.003	0.006
Modem 47181	1/31/2025 13:20	1/31/2025 13:30	0.002	0.002	0.002	0.002	0.002	0.007
Modem 47181	1/31/2025 13:10	1/31/2025 13:20	0.002	0.002	0.002	0.002	0.002	0.007
Modem 47181	1/31/2025 13:00	1/31/2025 13:10	0.002	0.002	0.002	0.002	0.002	0.007
Modem 47181	1/31/2025 12:50	1/31/2025 13:00	0.002	0.002	0.002	0.003	0.003	0.008

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	1/31/2025 12:40	1/31/2025 12:50	0.002	0.003	0.003	0.003	0.003	0.010
Modem 47181	1/31/2025 12:30	1/31/2025 12:40	0.003	0.003	0.003	0.003	0.003	0.012
Modem 47181	1/31/2025 12:20	1/31/2025 12:30	0.006	0.006	0.006	0.007	0.007	0.014
Modem 47181	1/31/2025 12:10	1/31/2025 12:20	0.007	0.007	0.007	0.007	0.007	0.016
Modem 47181	1/31/2025 12:00	1/31/2025 12:10	0.008	0.008	0.008	0.008	0.008	0.018
Modem 47181	1/31/2025 11:50	1/31/2025 12:00	0.009	0.010	0.010	0.010	0.010	0.019
Modem 47181	1/31/2025 11:40	1/31/2025 11:50	0.013	0.014	0.014	0.014	0.014	0.021
Modem 47181	1/31/2025 11:30	1/31/2025 11:40	0.016	0.016	0.017	0.017	0.017	0.022
Modem 47181	1/31/2025 11:20	1/31/2025 11:30	0.018	0.019	0.019	0.019	0.019	0.023
Modem 47181	1/31/2025 11:10	1/31/2025 11:20	0.001	0.001	0.001	0.001	0.001	0.024
Modem 47181	1/31/2025 11:00	1/31/2025 11:10	0.002	0.002	0.002	0.002	0.002	0.026
Modem 47181	1/31/2025 10:50	1/31/2025 11:00	0.009	0.009	0.009	0.009	0.009	
Modem 47181	1/31/2025 10:40	1/31/2025 10:50	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 10:30	1/31/2025 10:40	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 10:20	1/31/2025 10:30	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 10:10	1/31/2025 10:20	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 10:00	1/31/2025 10:10	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:50	1/31/2025 10:00	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:40	1/31/2025 9:50	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:30	1/31/2025 9:40	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:20	1/31/2025 9:30	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:10	1/31/2025 9:20	0.023	0.023	0.025	0.029	0.030	
Modem 47181	1/31/2025 9:00	1/31/2025 9:10	0.023	0.023	0.025	0.029	0.030	
Downwind								
Modem 49913	1/31/2025 20:50	1/31/2025 21:00	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Modem 49913	1/31/2025 20:40	1/31/2025 20:50	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Modem 49913	1/31/2025 20:30	1/31/2025 20:40	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Modem 49913	1/31/2025 20:20	1/31/2025 20:30	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Modem 49913	1/31/2025 20:10	1/31/2025 20:20	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Modem 49913	1/31/2025 20:00	1/31/2025 20:10	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 19:50	1/31/2025 20:00	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 19:40	1/31/2025 19:50	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 19:30	1/31/2025 19:40	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 19:20	1/31/2025 19:30	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 19:10	1/31/2025 19:20	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 19:00	1/31/2025 19:10	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
Modem 49913	1/31/2025 18:50	1/31/2025 19:00	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 18:40	1/31/2025 18:50	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 18:30	1/31/2025 18:40	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 18:20	1/31/2025 18:30	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 18:10	1/31/2025 18:20	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 18:00	1/31/2025 18:10	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 17:50	1/31/2025 18:00	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 17:40	1/31/2025 17:50	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 17:30	1/31/2025 17:40	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	1/31/2025 17:20	1/31/2025 17:30	0.001	0.001	0.001	0.001	0.001	0.000
Modem 49913	1/31/2025 17:10	1/31/2025 17:20	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 17:00	1/31/2025 17:10	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 16:50	1/31/2025 17:00	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 16:40	1/31/2025 16:50	0.000	0.000	0.000	0.000	0.000	0.001

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	1/31/2025 16:30	1/31/2025 16:40	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 16:20	1/31/2025 16:30	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 16:10	1/31/2025 16:20	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 16:00	1/31/2025 16:10	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 15:50	1/31/2025 16:00	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	1/31/2025 15:40	1/31/2025 15:50	0.000	0.000	0.000	0.000	0.000	0.002
Modem 49913	1/31/2025 15:30	1/31/2025 15:40	0.000	0.000	0.000	0.000	0.000	0.002
Modem 49913	1/31/2025 15:20	1/31/2025 15:30	0.003	0.003	0.003	0.003	0.003	0.002
Modem 49913	1/31/2025 15:10	1/31/2025 15:20	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	1/31/2025 15:00	1/31/2025 15:10	0.000	0.000	0.000	0.000	0.000	0.003
Modem 49913	1/31/2025 14:50	1/31/2025 15:00	0.000	0.000	0.000	0.000	0.000	0.003
Modem 49913	1/31/2025 14:40	1/31/2025 14:50	0.000	0.000	0.000	0.000	0.000	0.003
Modem 49913	1/31/2025 14:30	1/31/2025 14:40	0.000	0.001	0.001	0.001	0.001	0.004
Modem 49913	1/31/2025 14:20	1/31/2025 14:30	0.003	0.003	0.003	0.003	0.003	0.005
Modem 49913	1/31/2025 14:10	1/31/2025 14:20	0.000	0.000	0.000	0.000	0.000	0.005
Modem 49913	1/31/2025 14:00	1/31/2025 14:10	0.002	0.002	0.002	0.002	0.002	0.006
Modem 49913	1/31/2025 13:50	1/31/2025 14:00	0.006	0.006	0.006	0.006	0.006	0.007
Modem 49913	1/31/2025 13:40	1/31/2025 13:50	0.001	0.002	0.002	0.002	0.002	0.008
Modem 49913	1/31/2025 13:30	1/31/2025 13:40	0.004	0.004	0.004	0.005	0.005	0.010
Modem 49913	1/31/2025 13:20	1/31/2025 13:30	0.005	0.005	0.005	0.005	0.005	0.012
Modem 49913	1/31/2025 13:10	1/31/2025 13:20	0.006	0.006	0.006	0.006	0.006	0.012
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Modem 49913	1/31/2025 12:50	1/31/2025 13:00	0.005	0.005	0.005	0.005	0.005	0.016
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Modem 49913	1/31/2025 12:30	1/31/2025 12:40	0.007	0.007	0.007	0.007	0.007	0.019
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Modem 49913	1/31/2025 12:10	1/31/2025 12:20	0.010	0.010	0.010	0.011	0.011	0.022
Modem 49913	1/31/2025 12:00	1/31/2025 12:10	0.011	0.011	0.011	0.012	0.012	0.023
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Modem 49913	1/31/2025 11:20	1/31/2025 11:30	0.028	0.029	0.029	0.029	0.029	0.026
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Modem 49913	1/31/2025 9:40	1/31/2025 9:50	0.023	0.024	0.025	0.028	0.028	
Modem 49913	1/31/2025 9:30	1/31/2025 9:40	0.023	0.024	0.025	0.028	0.028	
Modem 49913	1/31/2025 9:20	1/31/2025 9:30	0.023	0.024	0.025	0.028	0.028	
Modem 49913	1/31/2025 9:10	1/31/2025 9:20	0.023	0.024	0.025	0.028	0.028	
Modem 49913	1/31/2025 9:00	1/31/2025 9:10	0.023	0.024	0.025	0.028	0.028	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB CLEANUP PROJECT

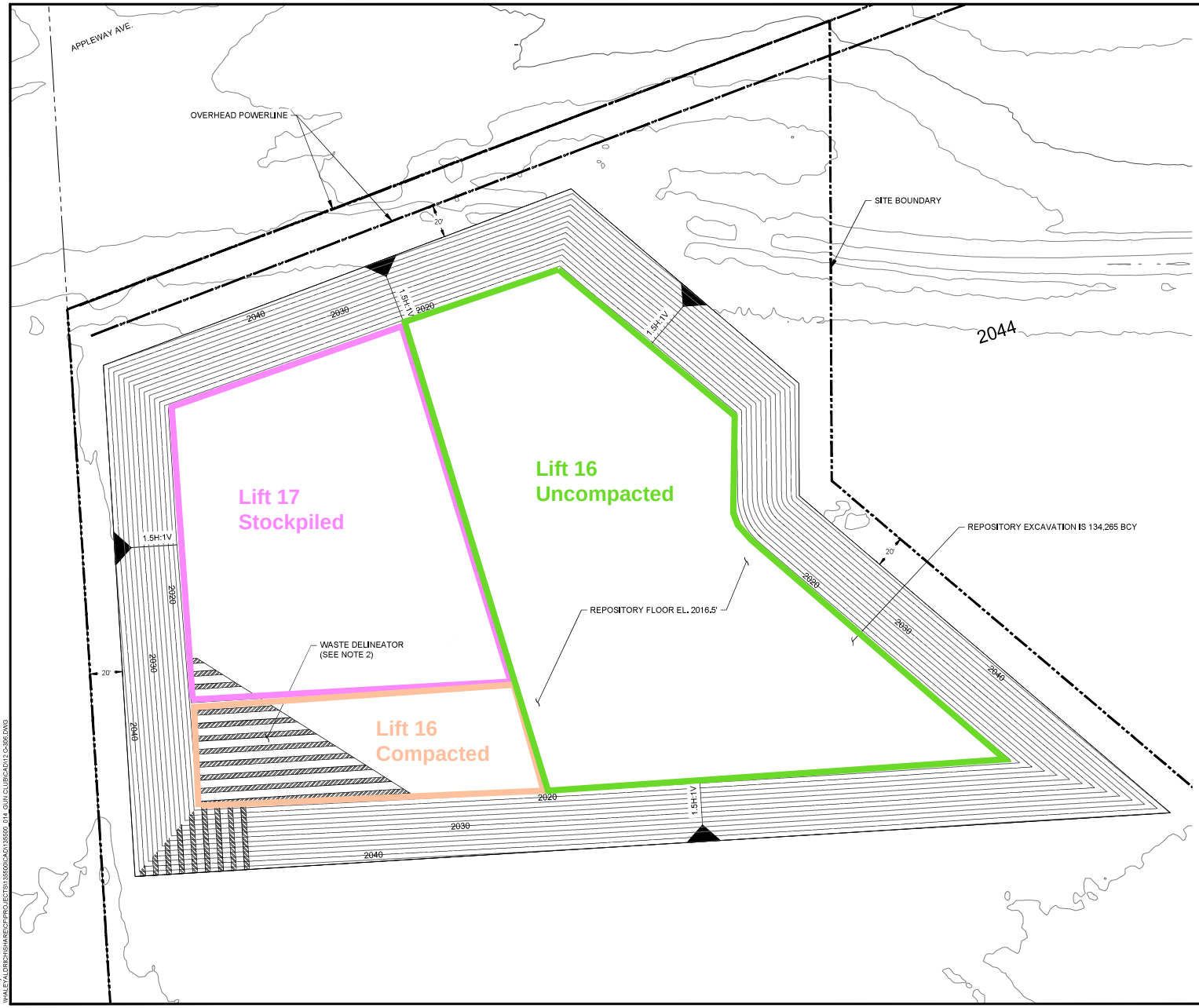
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY, WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CPROJECTS\135000\CAD\135500_014_GUN CLUB\CAD\GB C-302.DWG
Printed: 10/24/2023 9:49 AM
Sheet: 07 C-302



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE, SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

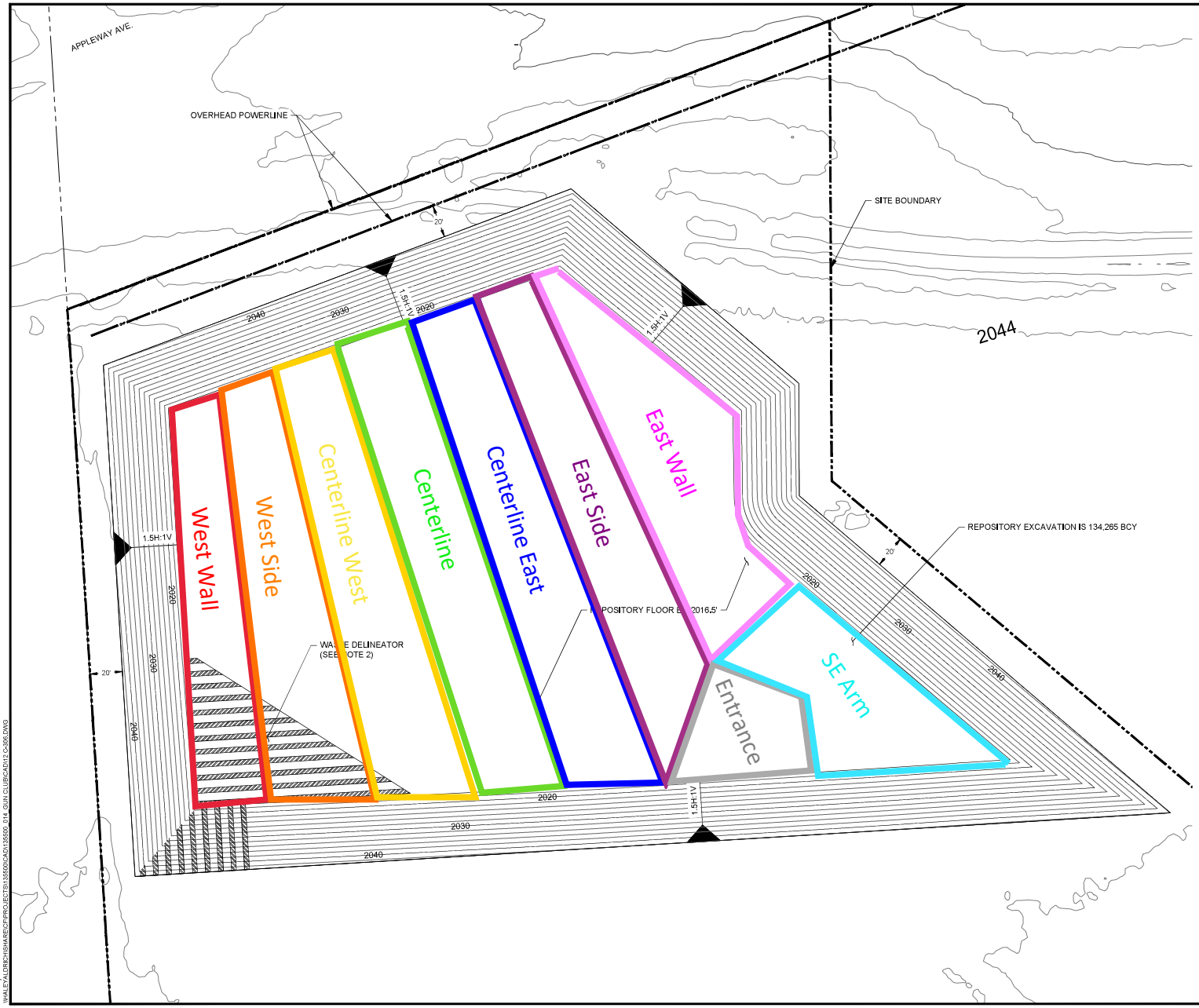
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
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7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
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12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	55
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	03 February 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	17-28°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Halme continued excavation activities on the east border of the 7-foot cut area for its entire length. The overall cut depth of these areas was adjusted to approximately 3 - 4 feet below ground surface using visual indications as a guide to terminate excavation extents.

b. Confirmation Sampling: No confirmation sampling was conducted today.

c. Backfill: Haley & Aldrich, Inc. (H&A) observed scarifying and recompacting of Lift No. 16 and backfilling of Lift No. 17 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 17 and deposited this soil in small stockpiles. By the end of the day, Lift No. 16 had been verified as adequately compacted and completely covered by Lift No. 17 stockpiles. Lift No. 16 was completely passed off and covered by Lift No. 17 by the end of the day.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of backfill today and operated for the length of the excavation day. Samsara DM 47181 was positioned upwind of site work and DM 49913 was positioned downwind of site work. The relative humidity in the morning was approximately 86% and the wind was east to west.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was controlled effectively due to frozen soil that contained moisture throughout the Site.

III. COMPACTION TESTING:

H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 - 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Areas demonstrating these (less than 2 inches, greater than 6 inches) penetration values were either recompacted or scarified and recompacted, respectively, based on H&A instruction. Partly through the day, H&A received the Troxler E-Gauge 4590 back from the manufacturer and resumed testing using the E-Gauge for the rest of the excavation day. The E-Gauge had been repaired and calibrated by the manufacturer prior to its utilization on Site.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	55
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	03 February 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	17-28°F

The follow compaction tests were performed today:

Table 1. T-Probe Test Results

Test Location	Test Result	Pass/Fail
16/1	4-6"	Pass
16/2	2-4"	Pass
16/3	2-4"	Pass
16/4	2-4"	Pass
16/5	4-6"	Pass
16/6	4-6"	Pass

Table 2. Troxler E-Gauge Test Results

Test Location	% Proctor	Dry Density	Wet Density	Moisture	Percent Moisture	Pass/Fail
16/7	92.1	123.4	127.5	4.0	3.3	Pass
16/8	82.9	111.0	114.6	3.6	3.2	Fail
16/9	96.5	129.4	132.5	3.1	2.4	Pass
16/10	94.2	126.2	130.2	4.0	3.2	Pass
16/11	91.7	122.8	127.7	4.9	4.0	Pass
16/12	88.3	118.3	121.3	3.0	2.6	Pass
Retest for 16/8						
16/13	99.4	133.2	138.7	5.5	4.1	Pass

Section 16/8 failed initially; Halme recompacted the area, resulting in a passing test when retested. Lift No. 16 took multiple days to complete due to the need to scarify frozen parts of the lift each morning.

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 16 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	55
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	03 February 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	17-28°F

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Cameron Luckey	10.5 hours	1.0 hours	11.5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/02 - February/02_03_25_CAL_DFR_55/02_03_25_CAL_DFR.docx



Photo 01. Area on the east side of the 7-foot cut excavated by Halme Construction, Inc. (Halme) today (view looking south).



Photo 02. Area on the east side of the 7-foot cut excavated by Halme today (view looking northwest).

Site Photographs – 03 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Backfill progress of the repository at the end of the day (view looking northeast).



Photo 04. Backfill progress of the repository at the end of day (view looking northwest).

Site Photographs – 03 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

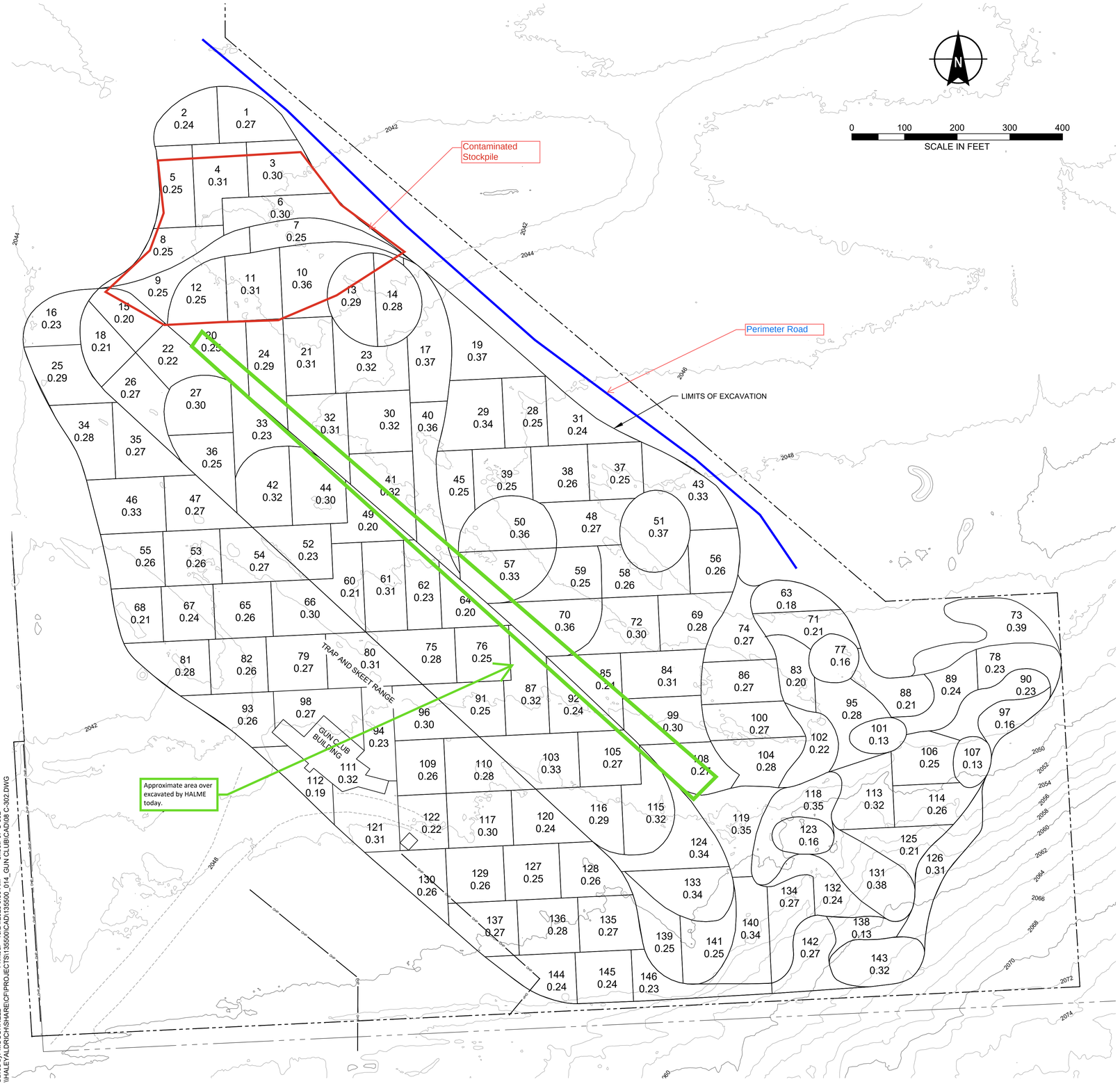
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time Eastern	End Time Eastern	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM10 120 Min Avg. (mg/m^3)
Upwind								
Modem 47181	2/3/2025 19:30	2/3/2025 19:40	0.003	0.003	0.003	0.003	0.003	0.003
Modem 47181	2/3/2025 19:20	2/3/2025 19:30	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/3/2025 19:10	2/3/2025 19:20	0.003	0.004	0.004	0.004	0.004	0.003
Modem 47181	2/3/2025 19:00	2/3/2025 19:10	0.005	0.005	0.005	0.005	0.005	0.004
Modem 47181	2/3/2025 18:50	2/3/2025 19:00	0.003	0.003	0.003	0.003	0.004	0.003
Modem 47181	2/3/2025 18:40	2/3/2025 18:50	0.001	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/3/2025 18:30	2/3/2025 18:40	0.001	0.001	0.001	0.001	0.001	0.002
Modem 47181	2/3/2025 18:20	2/3/2025 18:30	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/3/2025 18:10	2/3/2025 18:20	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/3/2025 18:00	2/3/2025 18:10	0.003	0.003	0.003	0.004	0.004	0.005
Modem 47181	2/3/2025 17:50	2/3/2025 18:00	0.006	0.006	0.006	0.006	0.006	0.005
Modem 47181	2/3/2025 17:40	2/3/2025 17:50	0.003	0.003	0.003	0.003	0.003	0.005
Modem 47181	2/3/2025 17:30	2/3/2025 17:40	0.003	0.003	0.003	0.003	0.003	0.005
Modem 47181	2/3/2025 17:20	2/3/2025 17:30	0.001	0.001	0.001	0.002	0.002	0.004
Modem 47181	2/3/2025 17:10	2/3/2025 17:20	0.002	0.002	0.002	0.002	0.002	0.005
Modem 47181	2/3/2025 17:00	2/3/2025 17:10	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/3/2025 16:50	2/3/2025 17:00	0.002	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/3/2025 16:40	2/3/2025 16:50	0	0.001	0.001	0.001	0.001	0.004
Modem 47181	2/3/2025 16:30	2/3/2025 16:40	0.002	0.002	0.003	0.003	0.003	0.004
Modem 47181	2/3/2025 16:20	2/3/2025 16:30	0.004	0.004	0.004	0.004	0.004	0.002
Modem 47181	2/3/2025 16:10	2/3/2025 16:20	0.004	0.005	0.005	0.005	0.005	0.003
Modem 47181	2/3/2025 16:00	2/3/2025 16:10	0.005	0.005	0.005	0.005	0.005	0.003
Modem 47181	2/3/2025 15:50	2/3/2025 16:00	0.004	0.004	0.004	0.004	0.004	0.003
Modem 47181	2/3/2025 15:40	2/3/2025 15:50	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	2/3/2025 15:30	2/3/2025 15:40	0.006	0.006	0.006	0.006	0.006	0.003
Modem 47181	2/3/2025 15:20	2/3/2025 15:30	0.005	0.005	0.005	0.005	0.005	0.004
Modem 47181	2/3/2025 15:10	2/3/2025 15:20	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	2/3/2025 15:00	2/3/2025 15:10	0.004	0.004	0.004	0.005	0.005	0.004
Modem 47181	2/3/2025 14:50	2/3/2025 15:00	0.003	0.003	0.003	0.003	0.003	0.003
Modem 47181	2/3/2025 14:40	2/3/2025 14:50	0.007	0.007	0.007	0.007	0.007	0.004
Modem 47181	2/3/2025 14:30	2/3/2025 14:40	0.005	0.005	0.005	0.005	0.005	0.003
Modem 47181	2/3/2025 14:20	2/3/2025 14:30	0	0	0	0	0	0.001
Modem 47181	2/3/2025 14:10	2/3/2025 14:20	0	0	0	0	0	0.001
Modem 47181	2/3/2025 14:00	2/3/2025 14:10	0	0	0	0	0	0.001
Modem 47181	2/3/2025 13:50	2/3/2025 14:00	0	0	0	0	0.001	0.001
Modem 47181	2/3/2025 13:40	2/3/2025 13:50	0	0	0	0	0.001	0.001
Modem 47181	2/3/2025 13:30	2/3/2025 13:40	0	0	0	0	0	0.001
Modem 47181	2/3/2025 13:20	2/3/2025 13:30	0.001	0.001	0.001	0.002	0.002	0.002
Modem 47181	2/3/2025 13:10	2/3/2025 13:20	0.001	0.001	0.001	0.001	0.001	0.001
Modem 47181	2/3/2025 13:00	2/3/2025 13:10	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/3/2025 12:50	2/3/2025 13:00	0.002	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/3/2025 12:40	2/3/2025 12:50	0.001	0.001	0.001	0.001	0.001	0.003
Modem 47181	2/3/2025 12:30	2/3/2025 12:40	0	0	0.001	0.001	0.001	0.004
Modem 47181	2/3/2025 12:20	2/3/2025 12:30	0.001	0.001	0.001	0.001	0.001	0.006
Modem 47181	2/3/2025 12:10	2/3/2025 12:20	0.001	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 12:00	2/3/2025 12:10	0	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 11:50	2/3/2025 12:00	0.001	0.001	0.001	0.001	0.001	

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 47181	2/3/2025 11:40	2/3/2025 11:50	0.001	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 11:30	2/3/2025 11:40	0.001	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 11:20	2/3/2025 11:30	0.001	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 11:10	2/3/2025 11:20	0.001	0.001	0.001	0.001	0.001	
Modem 47181	2/3/2025 11:00	2/3/2025 11:10	0.002	0.002	0.002	0.002	0.002	
Modem 47181	2/3/2025 10:50	2/3/2025 11:00	0.003	0.003	0.003	0.003	0.003	
Modem 47181	2/3/2025 10:40	2/3/2025 10:50	0.005	0.005	0.005	0.005	0.005	
Modem 47181	2/3/2025 10:30	2/3/2025 10:40	0.007	0.007	0.007	0.007	0.007	
Modem 47181	2/3/2025 10:20	2/3/2025 10:30	0.011	0.011	0.011	0.011	0.011	
Downwind								
Modem 49913	2/3/2025 19:30	2/3/2025 19:40	0.004	0.004	0.005	0.005	0.005	0.005
Modem 49913	2/3/2025 19:20	2/3/2025 19:30	0.004	0.004	0.004	0.004	0.004	0.004
Modem 49913	2/3/2025 19:10	2/3/2025 19:20	0.006	0.006	0.006	0.006	0.006	0.005
Modem 49913	2/3/2025 19:00	2/3/2025 19:10	0.008	0.008	0.008	0.008	0.008	0.006
Modem 49913	2/3/2025 18:50	2/3/2025 19:00	0.007	0.007	0.008	0.008	0.008	0.006
Modem 49913	2/3/2025 18:40	2/3/2025 18:50	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	2/3/2025 18:30	2/3/2025 18:40	0.002	0.002	0.002	0.002	0.002	0.003
Modem 49913	2/3/2025 18:20	2/3/2025 18:30	0.005	0.005	0.005	0.005	0.005	0.005
Modem 49913	2/3/2025 18:10	2/3/2025 18:20	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	2/3/2025 18:00	2/3/2025 18:10	0.004	0.004	0.004	0.004	0.004	0.007
Modem 49913	2/3/2025 17:50	2/3/2025 18:00	0.009	0.009	0.009	0.009	0.009	0.008
Modem 49913	2/3/2025 17:40	2/3/2025 17:50	0.005	0.005	0.005	0.005	0.005	0.006
Modem 49913	2/3/2025 17:30	2/3/2025 17:40	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	2/3/2025 17:20	2/3/2025 17:30	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	2/3/2025 17:10	2/3/2025 17:20	0.004	0.004	0.004	0.004	0.004	0.005
Modem 49913	2/3/2025 17:00	2/3/2025 17:10	0.003	0.003	0.003	0.003	0.003	0.004
Modem 49913	2/3/2025 16:50	2/3/2025 17:00	0.002	0.003	0.003	0.003	0.003	0.003
Modem 49913	2/3/2025 16:40	2/3/2025 16:50	0.001	0.001	0.001	0.001	0.001	0.006
Modem 49913	2/3/2025 16:30	2/3/2025 16:40	0.003	0.003	0.003	0.003	0.003	0.005
Modem 49913	2/3/2025 16:20	2/3/2025 16:30	0.005	0.005	0.005	0.005	0.005	0.003
Modem 49913	2/3/2025 16:10	2/3/2025 16:20	0.005	0.005	0.005	0.006	0.006	0.003
Modem 49913	2/3/2025 16:00	2/3/2025 16:10	0.01	0.01	0.01	0.01	0.01	0.005
Modem 49913	2/3/2025 15:50	2/3/2025 16:00	0.005	0.005	0.005	0.006	0.006	0.003
Modem 49913	2/3/2025 15:40	2/3/2025 15:50	0.007	0.007	0.007	0.007	0.007	0.004
Modem 49913	2/3/2025 15:30	2/3/2025 15:40	0.007	0.007	0.007	0.007	0.007	0.007
Modem 49913	2/3/2025 15:20	2/3/2025 15:30	0.007	0.007	0.007	0.007	0.007	0.006
Modem 49913	2/3/2025 15:10	2/3/2025 15:20	0.006	0.006	0.006	0.006	0.006	0.004
Modem 49913	2/3/2025 15:00	2/3/2025 15:10	0.005	0.005	0.005	0.005	0.005	0.004
Modem 49913	2/3/2025 14:50	2/3/2025 15:00	0.003	0.003	0.003	0.003	0.003	0.003
Modem 49913	2/3/2025 14:40	2/3/2025 14:50	0.011	0.011	0.011	0.011	0.011	0.006
Modem 49913	2/3/2025 14:30	2/3/2025 14:40	0.006	0.006	0.006	0.006	0.006	0.004
Modem 49913	2/3/2025 14:20	2/3/2025 14:30	0	0	0	0	0	0.001
Modem 49913	2/3/2025 14:10	2/3/2025 14:20	0	0	0	0	0	0.001
Modem 49913	2/3/2025 14:00	2/3/2025 14:10	0	0	0	0	0	0.003
Modem 49913	2/3/2025 13:50	2/3/2025 14:00	0	0	0	0	0	0.001
Modem 49913	2/3/2025 13:40	2/3/2025 13:50	0	0	0	0	0	0.002
Modem 49913	2/3/2025 13:30	2/3/2025 13:40	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	2/3/2025 13:20	2/3/2025 13:30	0.003	0.003	0.003	0.003	0.004	0.004

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time	End Time	DRX PM 1	DRX PM 2.5	DRX PM 4	DRX PM 10	DRX Mass Total	PM10 120 Min Avg.
	Eastern	Eastern	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)	(mg/m^3)
Modem 49913	2/3/2025 13:10	2/3/2025 13:20	0.001	0.001	0.002	0.002	0.002	0.003
Modem 49913	2/3/2025 13:00	2/3/2025 13:10	0.003	0.003	0.003	0.003	0.003	0.004
Modem 49913	2/3/2025 12:50	2/3/2025 13:00	0.002	0.002	0.003	0.003	0.003	0.004
Modem 49913	2/3/2025 12:40	2/3/2025 12:50	0.001	0.001	0.001	0.001	0.001	0.004
Modem 49913	2/3/2025 12:30	2/3/2025 12:40	0.001	0.001	0.001	0.001	0.001	0.005
Modem 49913	2/3/2025 12:20	2/3/2025 12:30	0.002	0.002	0.002	0.002	0.002	0.007
Modem 49913	2/3/2025 12:10	2/3/2025 12:20	0.001	0.001	0.001	0.002	0.002	
Modem 49913	2/3/2025 12:00	2/3/2025 12:10	0.004	0.004	0.004	0.005	0.005	
Modem 49913	2/3/2025 11:50	2/3/2025 12:00	0.002	0.002	0.002	0.002	0.002	
Modem 49913	2/3/2025 11:40	2/3/2025 11:50	0.004	0.004	0.004	0.004	0.004	
Modem 49913	2/3/2025 11:30	2/3/2025 11:40	0.004	0.004	0.004	0.004	0.004	
Modem 49913	2/3/2025 11:20	2/3/2025 11:30	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/3/2025 11:10	2/3/2025 11:20	0.002	0.003	0.003	0.003	0.003	
Modem 49913	2/3/2025 11:00	2/3/2025 11:10	0.004	0.004	0.004	0.004	0.004	
Modem 49913	2/3/2025 10:50	2/3/2025 11:00	0.004	0.004	0.004	0.005	0.005	
Modem 49913	2/3/2025 10:40	2/3/2025 10:50	0.007	0.007	0.007	0.007	0.007	
Modem 49913	2/3/2025 10:30	2/3/2025 10:40	0.007	0.007	0.007	0.008	0.008	
Modem 49913	2/3/2025 10:20	2/3/2025 10:30	0.01	0.011	0.011	0.011	0.011	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

Excavation Plan
Markup CAL 03
Feb 2025

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

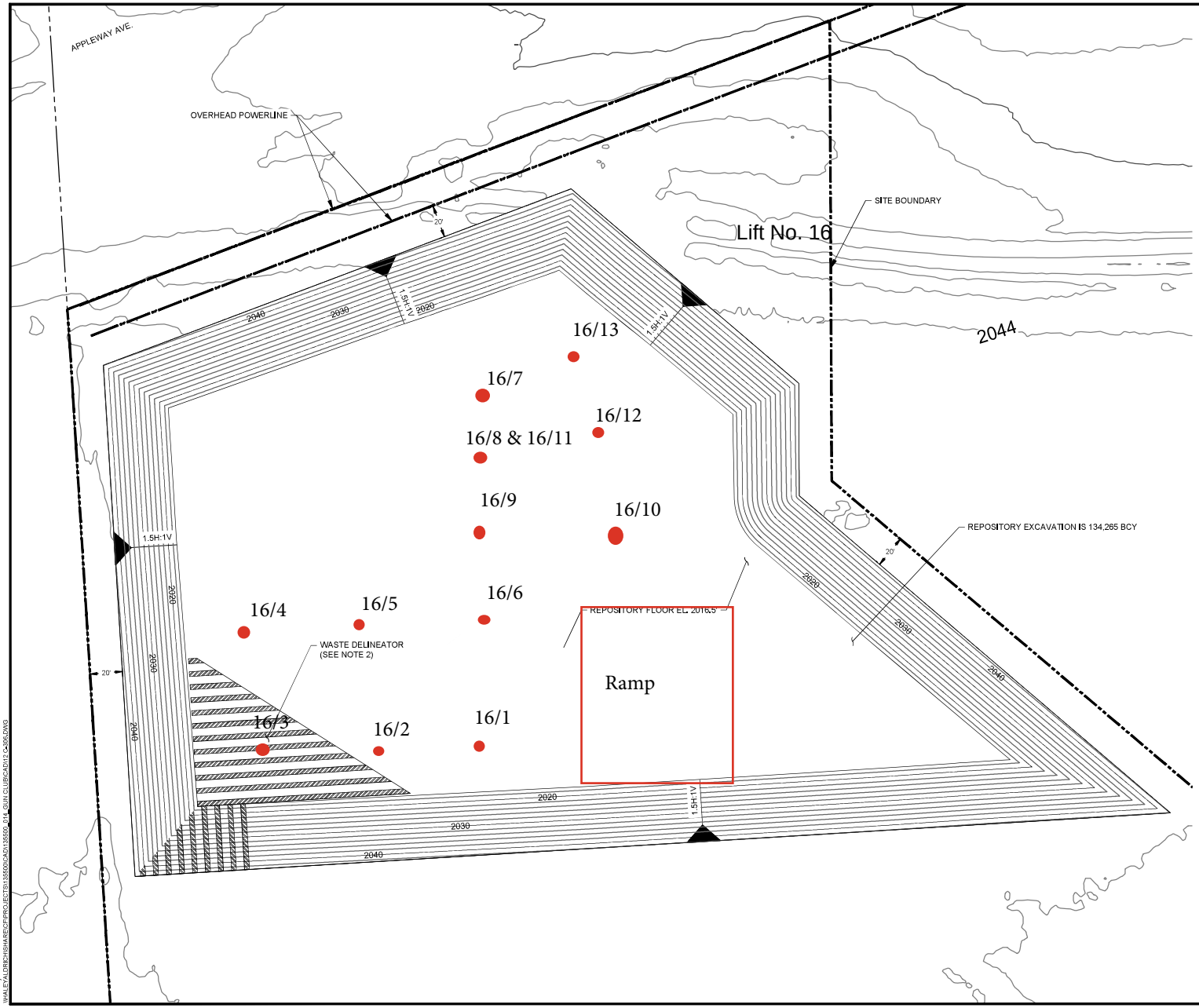
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

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\\HALEYALDRICH\SHARE\CP\PROJECTS\135500\CAD\135500_014_GUN CLUB\CAD\08 C-302.DWG



NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED, REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL
I:\HALEYALDRICH\SHARE\CPROJECTS\135000\CAD\135000_CVSD_GUN CLUB\CAD\12 C-306.DWG
Printed: 10/24/2023 10:00 AM
Sheet: 11 C-306

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	56
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	04 February 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 2
Contractor	Halme Construction, Inc.	**File No.**	0202349-002
Weather	Windy/Snowy	**Temperature**	23°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Haley & Aldrich, Inc. (H&A) observed further excavation of the 7-foot cut running east to west across the Site, with the west side of the cut being excavated. The overall cut depth of these areas was adjusted to approximately 3 - 4 feet below ground surface using visual indications as a guide to terminate excavation extents. The soil excavated from this area was then taken directly to the repository as fill.

b. Backfill: H&A observed scarifying and compacting of Lift No. 17 and backfilling of Lift No. 18 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 18 and deposited this soil in small stockpiles. By the end of the day, Lift No. 17 had been verified as adequately compacted on the south side, with the cleared areas being completely covered by these Lift No. 18 stockpiles.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of excavation and backfill today and operated from 07:15 to 16:45. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 77% and the wind was to the southwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was well controlled. Dust monitoring data is attached.

III. COMPACTION TESTING:

The Troxler E-Gauge 4590 was the preferred method of compaction testing, with a density greater than or equal to 90% of the 134.0 pounds per square foot (lbs/ft^3) proctor indicating adequate compaction. However, in cases where the E-Gauge was temporarily out of service, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Regardless of method, areas demonstrating non-compliance due to inadequate compaction or inadequate penetration were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

The following compaction tests were performed today with the T-Probe:

Table 1. T-Probe Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
17/1	South Wall	07:45	2-6”	Pass
17/2	South Wall	07:45	2-6”	Pass

17/3	South Wall	07:45	2-6”	Pass
17/4	South Wall	07:45	2-6”	Pass
17/5	South Wall	07:45	2-6”	Pass
17/6	South Side	08:30	2-6”	Pass
17/7	South Side	08:30	2-6”	Pass
17/8	South Side	08:30	2-6”	Pass
17/9	South Side	08:30	2-6”	Pass
17/10	South Side	08:30	2-6”	Pass
17/11	Centerline South	08:30	2-6”	Pass
17/12	Centerline South	08:30	2-6”	Pass
17/13	Centerline South	08:30	2-6”	Pass
17/14	Centerline South	08:30	2-6”	Pass
17/15	Centerline South	08:30	2-6”	Pass

The following compaction tests were performed today with the E-Gauge:

Table 2. E-Gauge Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Dry Density (pcf)	Wet Density (pcf)	%Moisture	%Proctor	Test Result
17/16	Entrance	09:15	10”	132.4	136.4	3.0	98.8	Pass
17/17	Entrance	09:30	8”	128.5	133.0	3.5	95.9	Pass
17/18	Centerline North	09:45	10”	131.2	135.4	3.1	97.9	Pass
17/19	Centerline North	10:00	10”	126.4	130.1	3.0	94.3	Pass
17/20	Centerline North	10:15	8”	134.7	138.7	3.0	100.5	Pass
17/21	Centerline North	10:30	10”	125.4	128.6	2.5	93.6	Pass
17/22	Centerline North	10:45	8”	125.0	128.2	2.5	93.3	Pass
17/23	Centerline North	11:00	10”	127.1	130.7	2.8	94.9	Pass

These tests yielded a total of 23 passing results on Lift No. 17 listed as above. Because the north side of this lift was not compacted nor tested today, Halme was instructed to not put any fill on this side of the repository until it had been scarified, recompacted, tested, and cleared.

IV. CONFIRMATION SAMPLING:

No confirmation samples were collected today.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	56
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	04 February 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc.	**File No.**	0202349-002
Weather	Windy/Snowy	**Temperature**	23°F

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 17 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Luke Peden	10.25 hours	0.75	11.0 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan
Attachment E - Repository Subgrade Excavation Plan (Sections)

Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/02 - February/02_04_25_LWP_DFR_56/02_04_25_LWP_DFR.docx



Photo 01. Repository – start of day (view to the south).



Photo 02. Repository entrance (view to the south).

Site Photographs – 04 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Repository scarifying, compacting, and density testing (view to the northwest).



Photo 04. Excavation area – 7-foot cut (view looking south).

Site Photographs – 04 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 05. Excavation close-up.



Photo 06. Repository fill (view looking east).

Site Photographs – 04 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 07. Repository – end of day (view looking south).

Site Photographs – 04 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

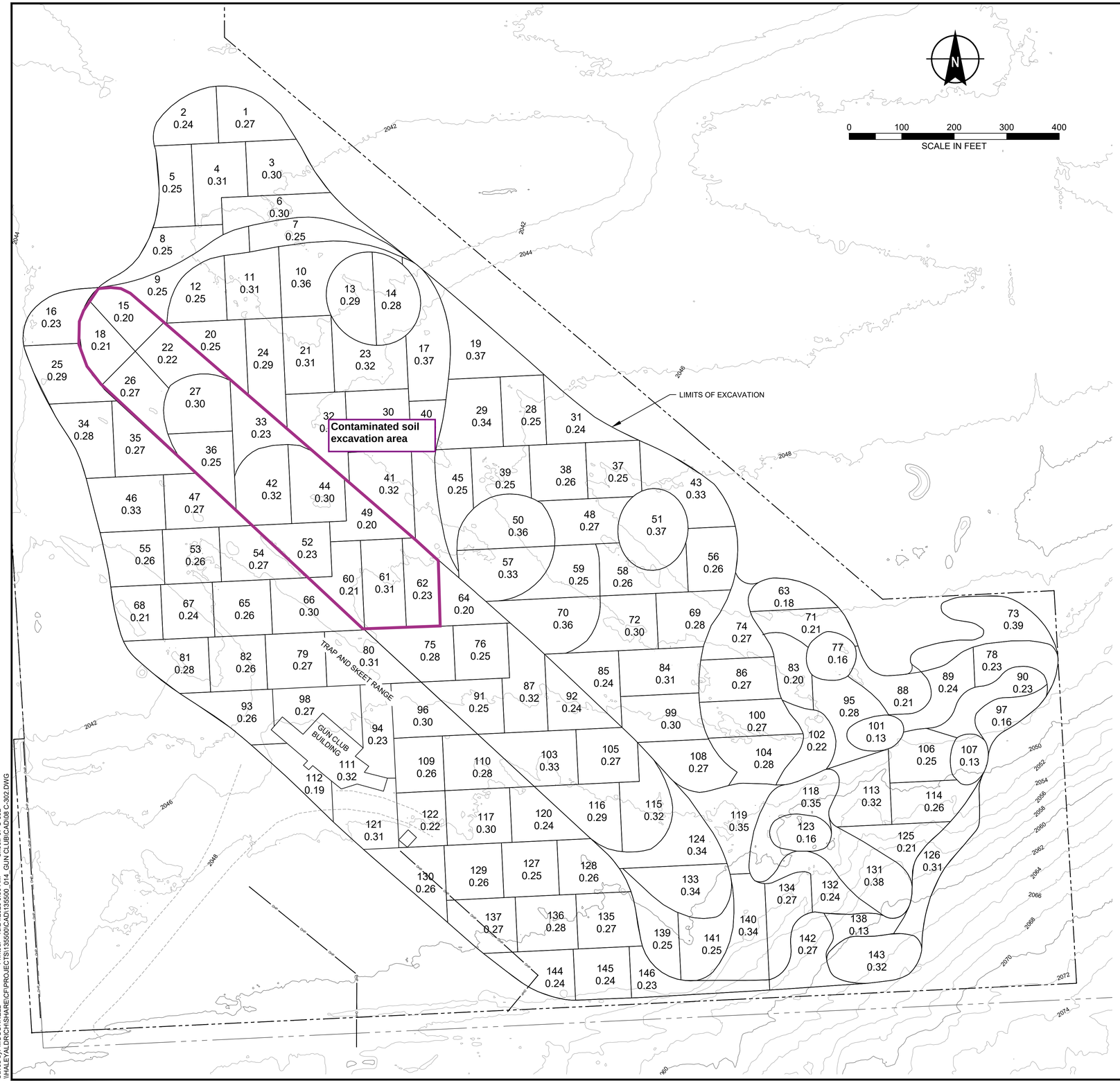
Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	2/4/2025 20:20	2/4/2025 20:30	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/4/2025 20:10	2/4/2025 20:20	0.007	0.007	0.008	0.008	0.008	0.007
Modem 47181	2/4/2025 20:00	2/4/2025 20:10	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/4/2025 19:50	2/4/2025 20:00	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/4/2025 19:40	2/4/2025 19:50	0.007	0.007	0.008	0.008	0.008	0.007
Modem 47181	2/4/2025 19:30	2/4/2025 19:40	0.006	0.006	0.007	0.007	0.008	0.007
Modem 47181	2/4/2025 19:20	2/4/2025 19:30	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 19:10	2/4/2025 19:20	0.006	0.006	0.007	0.008	0.008	0.007
Modem 47181	2/4/2025 19:00	2/4/2025 19:10	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 18:50	2/4/2025 19:00	0.006	0.006	0.007	0.007	0.008	0.007
Modem 47181	2/4/2025 18:40	2/4/2025 18:50	0.006	0.006	0.007	0.007	0.007	0.007
Modem 47181	2/4/2025 18:30	2/4/2025 18:40	0.005	0.006	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 18:20	2/4/2025 18:30	0.006	0.007	0.007	0.008	0.008	0.007
Modem 47181	2/4/2025 18:10	2/4/2025 18:20	0.006	0.006	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 18:00	2/4/2025 18:10	0.007	0.007	0.008	0.008	0.009	0.007
Modem 47181	2/4/2025 17:50	2/4/2025 18:00	0.007	0.007	0.007	0.008	0.008	0.007
Modem 47181	2/4/2025 17:40	2/4/2025 17:50	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 17:30	2/4/2025 17:40	0.006	0.006	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 17:20	2/4/2025 17:30	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 17:10	2/4/2025 17:20	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 17:00	2/4/2025 17:10	0.005	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 16:50	2/4/2025 17:00	0.005	0.005	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 16:40	2/4/2025 16:50	0.005	0.005	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 16:30	2/4/2025 16:40	0.005	0.005	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 16:20	2/4/2025 16:30	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 16:10	2/4/2025 16:20	0.006	0.006	0.006	0.007	0.007	0.007
Modem 47181	2/4/2025 16:00	2/4/2025 16:10	0.005	0.005	0.006	0.006	0.006	0.007
Modem 47181	2/4/2025 15:50	2/4/2025 16:00	0.005	0.005	0.006	0.006	0.007	0.007
Modem 47181	2/4/2025 15:40	2/4/2025 15:50	0.005	0.006	0.006	0.007	0.007	0.006
Modem 47181	2/4/2025 15:30	2/4/2025 15:40	0.008	0.008	0.009	0.010	0.010	0.006
Modem 47181	2/4/2025 15:20	2/4/2025 15:30	0.005	0.006	0.006	0.006	0.006	0.006
Modem 47181	2/4/2025 15:10	2/4/2025 15:20	0.006	0.006	0.006	0.007	0.007	0.006
Modem 47181	2/4/2025 15:00	2/4/2025 15:10	0.005	0.006	0.006	0.006	0.006	0.006
Modem 47181	2/4/2025 14:50	2/4/2025 15:00	0.005	0.006	0.006	0.007	0.007	0.006
Modem 47181	2/4/2025 14:40	2/4/2025 14:50	0.006	0.006	0.006	0.007	0.007	0.006
Modem 47181	2/4/2025 14:30	2/4/2025 14:40	0.005	0.006	0.006	0.006	0.006	0.006
Modem 47181	2/4/2025 14:20	2/4/2025 14:30	0.005	0.006	0.006	0.006	0.006	0.006
Modem 47181	2/4/2025 14:10	2/4/2025 14:20	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 14:00	2/4/2025 14:10	0.005	0.005	0.005	0.005	0.005	0.006
Modem 47181	2/4/2025 13:50	2/4/2025 14:00	0.005	0.005	0.005	0.005	0.005	0.006
Modem 47181	2/4/2025 13:40	2/4/2025 13:50	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 13:30	2/4/2025 13:40	0.005	0.005	0.005	0.006	0.007	0.006
Modem 47181	2/4/2025 13:20	2/4/2025 13:30	0.005	0.005	0.006	0.006	0.006	0.006
Modem 47181	2/4/2025 13:10	2/4/2025 13:20	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 13:00	2/4/2025 13:10	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 12:50	2/4/2025 13:00	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 12:40	2/4/2025 12:50	0.005	0.005	0.005	0.006	0.006	0.006

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	2/4/2025 12:30	2/4/2025 12:40	0.005	0.005	0.005	0.005	0.005	0.006
Modem 47181	2/4/2025 12:20	2/4/2025 12:30	0.005	0.005	0.005	0.005	0.005	0.006
Modem 47181	2/4/2025 12:10	2/4/2025 12:20	0.005	0.005	0.005	0.005	0.006	0.006
Modem 47181	2/4/2025 12:00	2/4/2025 12:10	0.005	0.005	0.005	0.006	0.006	0.006
Modem 47181	2/4/2025 11:50	2/4/2025 12:00	0.005	0.005	0.005	0.005	0.005	
Modem 47181	2/4/2025 11:40	2/4/2025 11:50	0.005	0.005	0.005	0.005	0.005	
Modem 47181	2/4/2025 11:30	2/4/2025 11:40	0.005	0.005	0.005	0.005	0.006	
Modem 47181	2/4/2025 11:20	2/4/2025 11:30	0.005	0.005	0.005	0.006	0.006	
Modem 47181	2/4/2025 11:10	2/4/2025 11:20	0.005	0.005	0.005	0.005	0.005	
Modem 47181	2/4/2025 11:00	2/4/2025 11:10	0.005	0.005	0.005	0.006	0.006	
Modem 47181	2/4/2025 10:50	2/4/2025 11:00	0.003	0.004	0.005	0.010	0.014	
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Modem 47181	2/4/2025 10:20	2/4/2025 10:30	0.003	0.003	0.003	0.004	0.004	
Modem 47181	2/4/2025 10:10	2/4/2025 10:20	0.003	0.003	0.003	0.004	0.004	
Modem 47181	2/4/2025 10:00	2/4/2025 10:10	0.003	0.003	0.003	0.004	0.004	
Downwind								
Modem 49913	2/4/2025 20:20	2/4/2025 20:30	0.004	0.004	0.005	0.006	0.007	0.006
Modem 49913	2/4/2025 20:10	2/4/2025 20:20	0.004	0.004	0.005	0.006	0.007	0.006
Modem 49913	2/4/2025 20:00	2/4/2025 20:10	0.004	0.004	0.005	0.006	0.007	0.005
Modem 49913	2/4/2025 19:50	2/4/2025 20:00	0.004	0.004	0.005	0.006	0.007	0.005
Modem 49913	2/4/2025 19:40	2/4/2025 19:50	0.004	0.004	0.004	0.005	0.005	0.005
Modem 49913	2/4/2025 19:30	2/4/2025 19:40	0.004	0.004	0.004	0.004	0.005	0.005
Modem 49913	2/4/2025 19:20	2/4/2025 19:30	0.006	0.007	0.007	0.009	0.009	0.005
Modem 49913	2/4/2025 19:10	2/4/2025 19:20	0.004	0.004	0.004	0.004	0.004	0.005
Modem 49913	2/4/2025 19:00	2/4/2025 19:10	0.003	0.003	0.004	0.004	0.004	0.005
Modem 49913	2/4/2025 18:50	2/4/2025 19:00	0.004	0.004	0.004	0.005	0.005	0.006
Modem 49913	2/4/2025 18:40	2/4/2025 18:50	0.004	0.004	0.005	0.006	0.006	0.006
Modem 49913	2/4/2025 18:30	2/4/2025 18:40	0.004	0.004	0.004	0.004	0.004	0.006
Modem 49913	2/4/2025 18:20	2/4/2025 18:30	0.004	0.004	0.004	0.005	0.005	0.006
Modem 49913	2/4/2025 18:10	2/4/2025 18:20	0.003	0.004	0.004	0.004	0.004	0.007
Modem 49913	2/4/2025 18:00	2/4/2025 18:10	0.004	0.005	0.005	0.005	0.005	0.008
Modem 49913	2/4/2025 17:50	2/4/2025 18:00	0.005	0.005	0.005	0.005	0.005	0.008
Modem 49913	2/4/2025 17:40	2/4/2025 17:50	0.004	0.005	0.005	0.005	0.005	0.008
Modem 49913	2/4/2025 17:30	2/4/2025 17:40	0.005	0.006	0.006	0.006	0.006	0.008
Modem 49913	2/4/2025 17:20	2/4/2025 17:30	0.003	0.004	0.004	0.004	0.004	0.008
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Modem 49913	2/4/2025 17:00	2/4/2025 17:10	0.004	0.004	0.004	0.005	0.005	0.008
Modem 49913	2/4/2025 16:50	2/4/2025 17:00	0.013	0.013	0.013	0.014	0.014	0.009
Modem 49913	2/4/2025 16:40	2/4/2025 16:50	0.009	0.009	0.010	0.011	0.011	0.008
Modem 49913	2/4/2025 16:30	2/4/2025 16:40	0.006	0.006	0.007	0.008	0.008	0.008
Modem 49913	2/4/2025 16:20	2/4/2025 16:30	0.005	0.005	0.005	0.005	0.005	0.008
Modem 49913	2/4/2025 16:10	2/4/2025 16:20	0.007	0.008	0.009	0.012	0.013	0.007
Modem 49913	2/4/2025 16:00	2/4/2025 16:10	0.008	0.009	0.010	0.011	0.011	0.007
Modem 49913	2/4/2025 15:50	2/4/2025 16:00	0.005	0.005	0.005	0.007	0.007	0.006
Modem 49913	2/4/2025 15:40	2/4/2025 15:50	0.005	0.005	0.006	0.006	0.006	0.006
Modem 49913	2/4/2025 15:30	2/4/2025 15:40	0.005	0.005	0.006	0.007	0.007	0.007
Modem 49913	2/4/2025 15:20	2/4/2025 15:30	0.004	0.004	0.005	0.006	0.006	0.007

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	2/4/2025 15:10	2/4/2025 15:20	0.004	0.005	0.005	0.006	0.006	0.007
Modem 49913	2/4/2025 15:00	2/4/2025 15:10	0.007	0.008	0.008	0.008	0.008	0.007
Modem 49913	2/4/2025 14:50	2/4/2025 15:00	0.010	0.010	0.010	0.011	0.011	0.007
Modem 49913	2/4/2025 14:40	2/4/2025 14:50	0.006	0.006	0.007	0.008	0.008	0.007
Modem 49913	2/4/2025 14:30	2/4/2025 14:40	0.004	0.004	0.004	0.004	0.004	0.007
Modem 49913	2/4/2025 14:20	2/4/2025 14:30	0.004	0.004	0.005	0.006	0.006	0.007
Modem 49913	2/4/2025 14:10	2/4/2025 14:20	0.003	0.003	0.003	0.004	0.004	0.007
Modem 49913	2/4/2025 14:00	2/4/2025 14:10	0.004	0.004	0.005	0.005	0.005	0.007
Modem 49913	2/4/2025 13:50	2/4/2025 14:00	0.004	0.004	0.005	0.005	0.005	0.007
Modem 49913	2/4/2025 13:40	2/4/2025 13:50	0.006	0.006	0.007	0.008	0.008	0.007
Modem 49913	2/4/2025 13:30	2/4/2025 13:40	0.007	0.007	0.008	0.008	0.008	0.006
Modem 49913	2/4/2025 13:20	2/4/2025 13:30	0.006	0.006	0.007	0.007	0.007	0.006
Modem 49913	2/4/2025 13:10	2/4/2025 13:20	0.007	0.007	0.007	0.008	0.008	0.006
Modem 49913	2/4/2025 13:00	2/4/2025 13:10	0.009	0.009	0.010	0.011	0.011	0.006
Modem 49913	2/4/2025 12:50	2/4/2025 13:00	0.007	0.007	0.007	0.008	0.008	0.005
Modem 49913	2/4/2025 12:40	2/4/2025 12:50	0.005	0.006	0.006	0.006	0.007	0.006
Modem 49913	2/4/2025 12:30	2/4/2025 12:40	0.006	0.006	0.006	0.007	0.007	0.006
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Modem 49913	2/4/2025 12:10	2/4/2025 12:20	0.005	0.005	0.005	0.006	0.006	0.005
Modem 49913	2/4/2025 12:00	2/4/2025 12:10	0.003	0.004	0.004	0.004	0.004	0.005
Modem 49913	2/4/2025 11:50	2/4/2025 12:00	0.003	0.003	0.003	0.004	0.004	
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Modem 49913	2/4/2025 10:50	2/4/2025 11:00	0.004	0.004	0.004	0.005	0.005	
Modem 49913	2/4/2025 10:40	2/4/2025 10:50	0.007	0.008	0.009	0.012	0.012	
Modem 49913	2/4/2025 10:30	2/4/2025 10:40	0.005	0.005	0.006	0.006	0.006	
Modem 49913	2/4/2025 10:20	2/4/2025 10:30	0.004	0.004	0.004	0.004	0.004	
Modem 49913	2/4/2025 10:10	2/4/2025 10:20	0.004	0.004	0.004	0.004	0.004	
Modem 49913	2/4/2025 10:00	2/4/2025 10:10	0.004	0.004	0.004	0.004	0.004	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

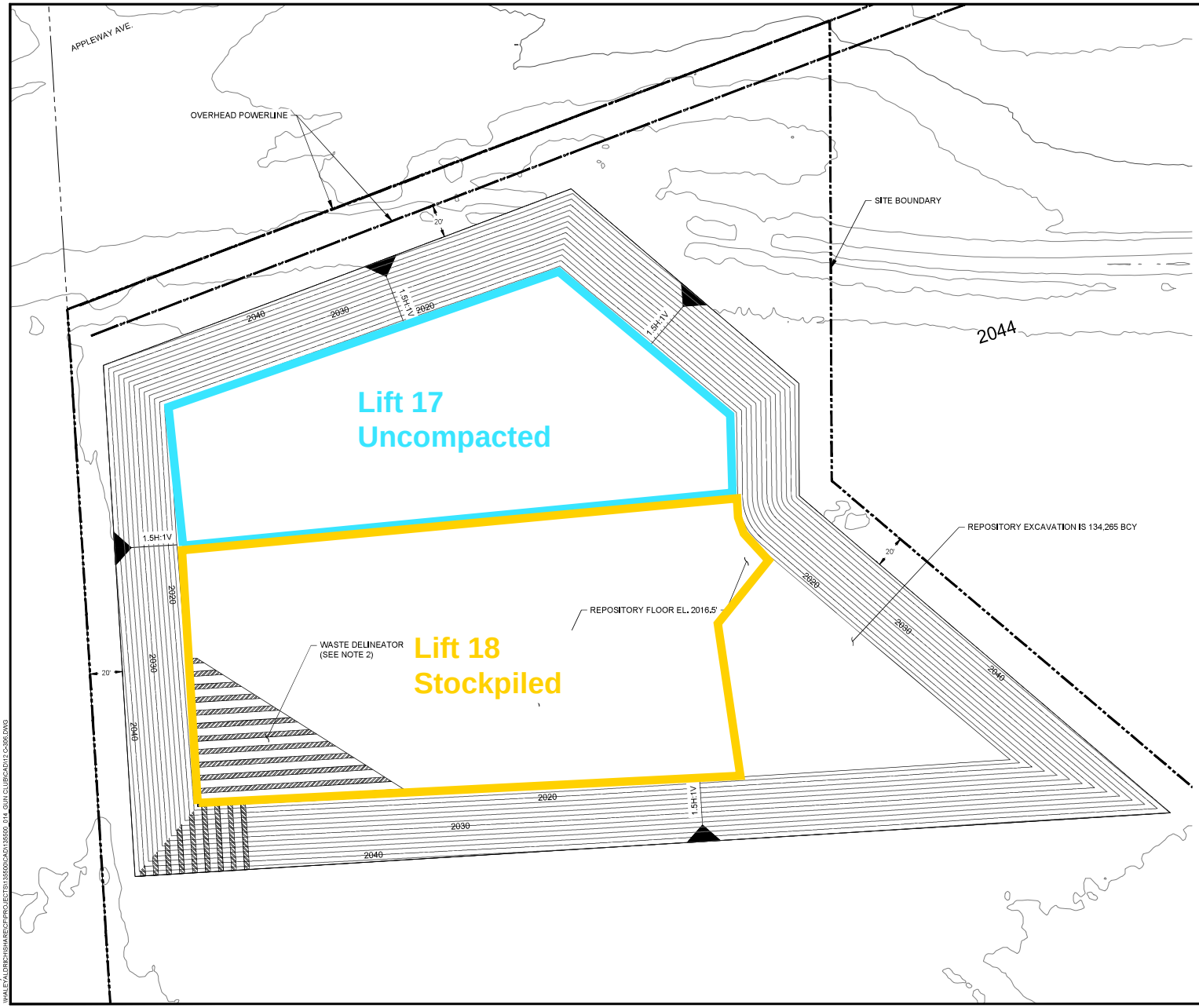
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED, BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
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Project No.:	202349-001
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CVSD GUN CLUB
CLEANUP PROJECT

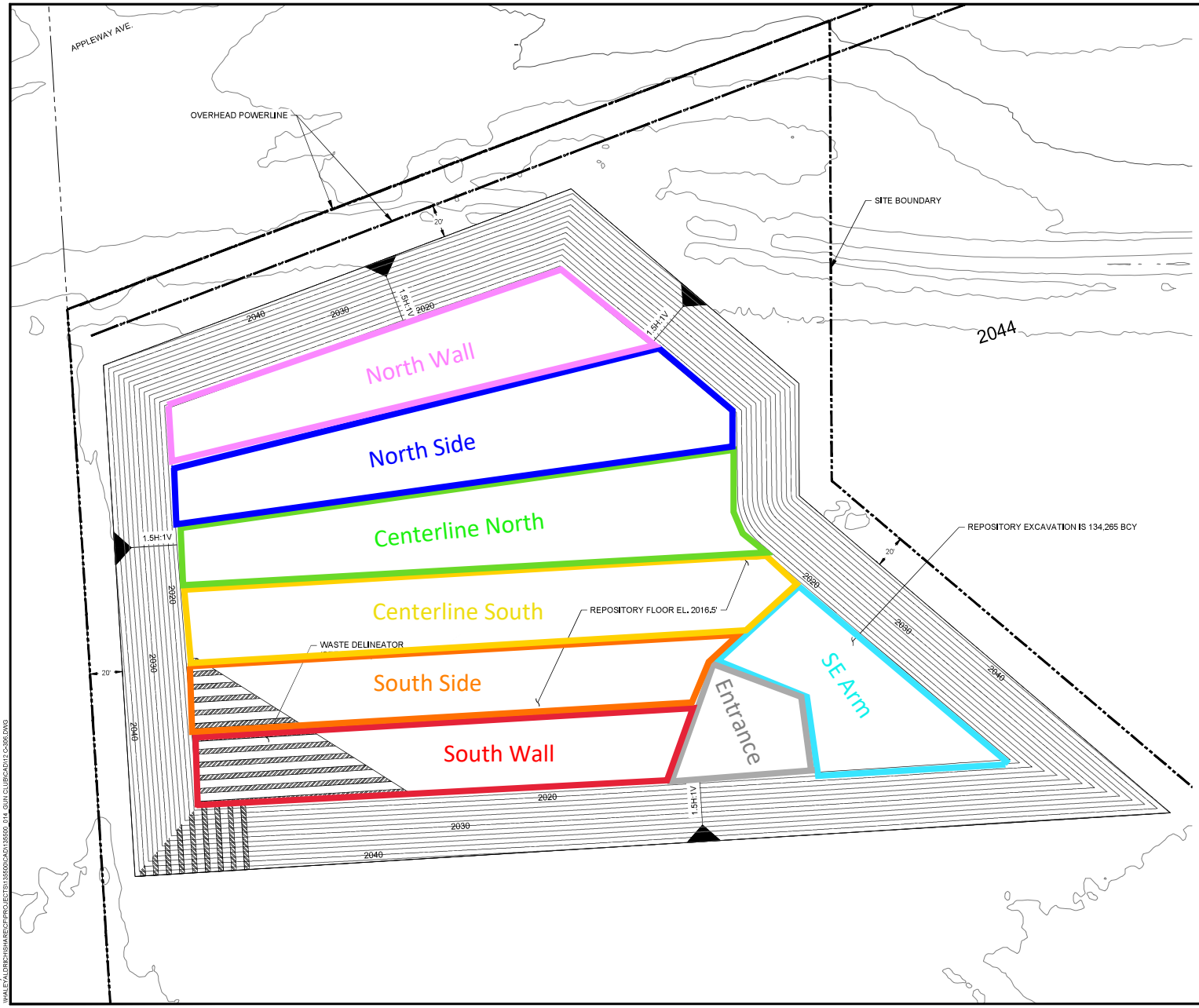
19615 E. SPRAGUE AVE. #9656
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WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
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HALEY & ALDRICH
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Project No.:	202349-001
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Designed By:	BD
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Approved By:	JH/KH
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Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	57
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	05 February 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Snowy	**Temperature**	24°F

I. CLEANUP ACTIVITIES

a. Contaminated Soil Excavation: Haley & Aldrich, Inc. (H&A) observed further excavation of the 7-foot cut area running east to west across the Site, with the northeast side of the cut being excavated. The overall cut depth of these areas was 7-feet because recently received data indicated that color was not an accurate visual indicator of contamination. The soil excavated from this area was then taken directly to the repository as fill.

b. Confirmation Sampling: No confirmation samples were collected today.

c. Backfill: H&A observed scarifying and compacting of Lift Nos. 17 and 18 and backfilling of Lift Nos. 18 and 19 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift Nos. 18 and 19 and deposited this soil in small stockpiles. By the end of the day, Lift No. 17 had been verified as adequately compacted and Lift No. 18 had been cleared as adequately compacted on the west side, with these cleared areas being covered by Lift No. 18 and Lift No. 19 stockpiles, respectively.

II. DUST MONITORING

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of excavation and backfill today and operated from 07:15 to 16:30. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 87% and the wind was to the west-southwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was well-controlled. Dust monitoring data is attached.

III. COMPACTION TESTING

The Troxler E-Gauge 4590 was the preferred method of compaction testing, with a density greater than or equal to 90% of the 134.0 pounds per square foot ($lbs./ft^3$) proctor indicating adequate compaction. However, in cases where the E-Gauge was temporarily out of service or a section of the repository that appeared to be well-compacted failed after multiple tests with the E-Gauge, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Regardless of method, areas demonstrating non-compliance due to inadequate compaction or inadequate penetration were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	57
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	05 February 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Snowy	**Temperature**	24°F

The following compaction tests were performed today with the T-Probe:

Table 1. T-Probe Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Test Result
17/1	North Side	07:50	2-6”	Pass
17/2	North Side	07:50	2-6”	Pass
17/3	North Side	07:50	2-6”	Pass
17/4	North Side	07:50	2-6”	Pass
17/5	North Side	07:50	<2”	Fail
17/6	North Side	07:50	<2”	Fail
17/7	North Side	08:15	2-6”	Pass
17/8	North Side	08:15	2-6”	Pass
17/9	North Side	08:15	2-6”	Pass
17/13	North Wall	10:15	2-6”	Pass
17/14	North Wall	10:15	2-6”	Pass
17/15	North Wall	10:15	2-6”	Pass
18/8	West Side	14:15	2-6”	Pass

The following compaction tests were performed today with the E-Gauge:

Table 2. E-Gauge Compaction Testing Results

Test Number	Test Area	Test Time	Test Depth	Dry Density (pcf)	Wet Density (pcf)	% Moisture	% Proctor	Test Result
17/10	North Wall	08:45	10”	136.1	140.9	3.5	101.6	Pass
17/11	North Wall	09:30	10”	130.6	134.3	2.9	97.4	Pass
17/12	North Wall	09:45	10”	122.1	124.7	2.1	91.1	Pass
18/1	West Wall	11:30	10”	130.8	134.9	3.1	97.6	Pass
18/2	West Wall	11:45	10”	125.7	128.7	2.4	93.8	Pass
18/3	West Wall	12:00	10”	123.4	126.8	2.7	92.1	Pass
18/4	West Wall	12:45	10”	136.4	140.0	2.6	101.8	Pass
18/5	West Wall	13:00	10”	136.3	139.8	2.5	101.7	Pass
18/6	West Side	13:45	8”	129.1	132.5	2.6	96.4	Pass
18/7	West Side	14:00	10”	131.1	134.2	2.4	97.4	Pass
18/9	West Side	14:30	10”	125.3	128.3	2.4	93.5	Pass
18/10	West Side	14:45	8”	133.6	137.0	2.6	99.7	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	57
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	05 February 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Snowy	**Temperature**	24°F

Because the east side of Lift No. 18 was not compacted nor tested today, Halme was instructed to not put any fill on this side of the repository until it had been scarified, recompacted, tested, and cleared.

Discussions:

Name	**Topic**
Halme; H&A	H&A spoke with David Abrahamson of Halme throughout the Lift No. 17 and Lift No. 18 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	**Time on site**	**Report/Travel/Other**	**Total**
Luke Peden	10 hours	1 hour	11 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Confirmation Sampling Plan
Attachment D – Repository Subgrade Excavation Plan
Attachment E – Repository Subgrade Excavation Plan (Sections)



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/02 - February/02_05_25_LWP_DFR_57/02_05_25_LWP_DFR.docx



Photo 01. Repository scarification and compaction of Lift No. 17 (view looking northeast).



Photo 02. Lift No. 17 compaction testing (view looking northwest).

Site Photographs - 05 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Excavation of 7-foot cut area, to 3-4 feet below ground surface (view looking northwest).



Photo 04. Final grade of 7-foot cut area (view looking east).

Site Photographs - 05 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

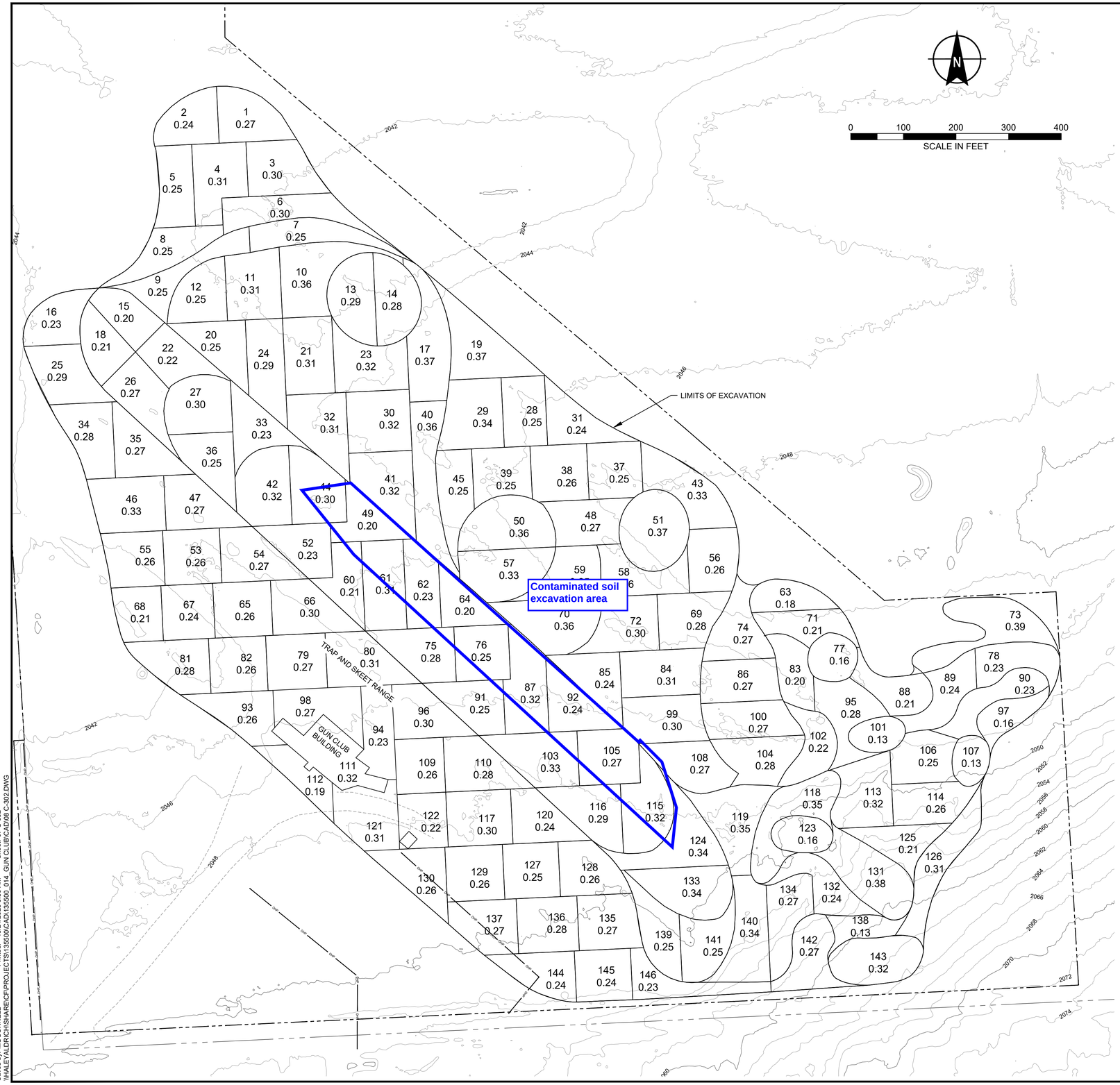
ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	2/5/2025 20:20	2/5/2025 20:30	0.014	0.014	0.014	0.015	0.016	0.015
Modem 47181	2/5/2025 20:10	2/5/2025 20:20	0.014	0.014	0.014	0.015	0.016	0.015
Modem 47181	2/5/2025 20:00	2/5/2025 20:10	0.014	0.014	0.014	0.015	0.016	0.014
Modem 47181	2/5/2025 19:50	2/5/2025 20:00	0.014	0.014	0.014	0.015	0.016	0.014
Modem 47181	2/5/2025 19:40	2/5/2025 19:50	0.014	0.014	0.014	0.015	0.016	0.014
Modem 47181	2/5/2025 19:30	2/5/2025 19:40	0.014	0.014	0.014	0.015	0.016	0.014
Modem 47181	2/5/2025 19:20	2/5/2025 19:30	0.014	0.014	0.014	0.015	0.016	0.014
Modem 47181	2/5/2025 19:10	2/5/2025 19:20	0.014	0.014	0.015	0.016	0.016	0.014
Modem 47181	2/5/2025 19:00	2/5/2025 19:10	0.013	0.013	0.013	0.013	0.013	0.014
Modem 47181	2/5/2025 18:50	2/5/2025 19:00	0.013	0.013	0.013	0.013	0.013	0.014
Modem 47181	2/5/2025 18:40	2/5/2025 18:50	0.012	0.012	0.012	0.012	0.012	0.014
Modem 47181	2/5/2025 18:30	2/5/2025 18:40	0.012	0.012	0.013	0.013	0.013	0.015
Modem 47181	2/5/2025 18:20	2/5/2025 18:30	0.012	0.012	0.012	0.013	0.013	0.015
Modem 47181	2/5/2025 18:10	2/5/2025 18:20	0.013	0.013	0.013	0.013	0.013	0.015
Modem 47181	2/5/2025 18:00	2/5/2025 18:10	0.014	0.014	0.014	0.015	0.015	0.015
Modem 47181	2/5/2025 17:50	2/5/2025 18:00	0.014	0.014	0.015	0.015	0.015	0.014
Modem 47181	2/5/2025 17:40	2/5/2025 17:50	0.015	0.015	0.015	0.015	0.015	0.014
Modem 47181	2/5/2025 17:30	2/5/2025 17:40	0.016	0.016	0.016	0.016	0.016	0.013
Modem 47181	2/5/2025 17:20	2/5/2025 17:30	0.016	0.016	0.016	0.016	0.016	0.013
Modem 47181	2/5/2025 17:10	2/5/2025 17:20	0.016	0.016	0.016	0.016	0.016	0.013
Modem 47181	2/5/2025 17:00	2/5/2025 17:10	0.015	0.015	0.015	0.016	0.016	0.012
Modem 47181	2/5/2025 16:50	2/5/2025 17:00	0.012	0.012	0.012	0.012	0.012	0.012
Modem 47181	2/5/2025 16:40	2/5/2025 16:50	0.016	0.016	0.016	0.016	0.016	0.012
Modem 47181	2/5/2025 16:30	2/5/2025 16:40	0.015	0.015	0.015	0.015	0.015	0.012
Modem 47181	2/5/2025 16:20	2/5/2025 16:30	0.013	0.013	0.013	0.013	0.013	0.011
Modem 47181	2/5/2025 16:10	2/5/2025 16:20	0.011	0.011	0.011	0.012	0.012	0.011
Modem 47181	2/5/2025 16:00	2/5/2025 16:10	0.011	0.011	0.011	0.012	0.012	0.010
Modem 47181	2/5/2025 15:50	2/5/2025 16:00	0.009	0.009	0.009	0.010	0.010	0.010
Modem 47181	2/5/2025 15:40	2/5/2025 15:50	0.010	0.010	0.010	0.010	0.010	0.010
Modem 47181	2/5/2025 15:30	2/5/2025 15:40	0.010	0.010	0.010	0.010	0.011	0.010
Modem 47181	2/5/2025 15:20	2/5/2025 15:30	0.011	0.011	0.011	0.011	0.011	0.010
Modem 47181	2/5/2025 15:10	2/5/2025 15:20	0.011	0.011	0.012	0.012	0.012	0.009
Modem 47181	2/5/2025 15:00	2/5/2025 15:10	0.012	0.012	0.012	0.012	0.012	0.009
Modem 47181	2/5/2025 14:50	2/5/2025 15:00	0.012	0.012	0.012	0.012	0.012	0.009
Modem 47181	2/5/2025 14:40	2/5/2025 14:50	0.010	0.010	0.010	0.010	0.010	0.008
Modem 47181	2/5/2025 14:30	2/5/2025 14:40	0.010	0.010	0.010	0.010	0.010	0.008
Modem 47181	2/5/2025 14:20	2/5/2025 14:30	0.009	0.009	0.009	0.009	0.009	0.008
Modem 47181	2/5/2025 14:10	2/5/2025 14:20	0.010	0.010	0.010	0.010	0.010	0.008
Modem 47181	2/5/2025 14:00	2/5/2025 14:10	0.006	0.006	0.007	0.007	0.007	0.008
Modem 47181	2/5/2025 13:50	2/5/2025 14:00	0.006	0.006	0.006	0.006	0.006	0.008
Modem 47181	2/5/2025 13:40	2/5/2025 13:50	0.007	0.007	0.007	0.007	0.007	0.008
Modem 47181	2/5/2025 13:30	2/5/2025 13:40	0.010	0.010	0.011	0.011	0.011	0.008
Modem 47181	2/5/2025 13:20	2/5/2025 13:30	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 13:10	2/5/2025 13:20	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 13:00	2/5/2025 13:10	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 12:50	2/5/2025 13:00	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 12:40	2/5/2025 12:50	0.007	0.007	0.008	0.008	0.008	0.008

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	2/5/2025 12:30	2/5/2025 12:40	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 12:20	2/5/2025 12:30	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 12:10	2/5/2025 12:20	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 12:00	2/5/2025 12:10	0.007	0.007	0.008	0.008	0.008	0.008
Modem 47181	2/5/2025 11:50	2/5/2025 12:00	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 11:40	2/5/2025 11:50	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 11:30	2/5/2025 11:40	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 11:20	2/5/2025 11:30	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 11:10	2/5/2025 11:20	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 11:00	2/5/2025 11:10	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:50	2/5/2025 11:00	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:40	2/5/2025 10:50	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:30	2/5/2025 10:40	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:20	2/5/2025 10:30	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:10	2/5/2025 10:20	0.007	0.007	0.008	0.008	0.008	
Modem 47181	2/5/2025 10:00	2/5/2025 10:10	0.007	0.007	0.008	0.008	0.008	
Downwind								
Modem 49913	2/5/2025 20:20	2/5/2025 20:30	0.012	0.012	0.012	0.012	0.012	0.011
Modem 49913	2/5/2025 20:10	2/5/2025 20:20	0.012	0.012	0.012	0.012	0.012	0.011
Modem 49913	2/5/2025 20:00	2/5/2025 20:10	0.012	0.012	0.012	0.012	0.012	0.011
Modem 49913	2/5/2025 19:50	2/5/2025 20:00	0.012	0.012	0.012	0.012	0.012	0.011
Modem 49913	2/5/2025 19:40	2/5/2025 19:50	0.012	0.012	0.012	0.012	0.012	0.011
Modem 49913	2/5/2025 19:30	2/5/2025 19:40	0.012	0.012	0.012	0.012	0.012	0.012
Modem 49913	2/5/2025 19:20	2/5/2025 19:30	0.011	0.011	0.011	0.011	0.011	0.012
Modem 49913	2/5/2025 19:10	2/5/2025 19:20	0.011	0.011	0.012	0.012	0.012	0.012
Modem 49913	2/5/2025 19:00	2/5/2025 19:10	0.011	0.011	0.011	0.011	0.011	0.012
Modem 49913	2/5/2025 18:50	2/5/2025 19:00	0.010	0.010	0.010	0.010	0.010	0.013
Modem 49913	2/5/2025 18:40	2/5/2025 18:50	0.010	0.010	0.010	0.011	0.011	0.013
Modem 49913	2/5/2025 18:30	2/5/2025 18:40	0.010	0.010	0.010	0.010	0.010	0.013
Modem 49913	2/5/2025 18:20	2/5/2025 18:30	0.010	0.010	0.010	0.010	0.010	0.014
Modem 49913	2/5/2025 18:10	2/5/2025 18:20	0.011	0.011	0.011	0.011	0.011	0.014
Modem 49913	2/5/2025 18:00	2/5/2025 18:10	0.013	0.013	0.013	0.013	0.013	0.014
Modem 49913	2/5/2025 17:50	2/5/2025 18:00	0.012	0.012	0.013	0.013	0.013	0.014
Modem 49913	2/5/2025 17:40	2/5/2025 17:50	0.012	0.012	0.012	0.012	0.012	0.013
Modem 49913	2/5/2025 17:30	2/5/2025 17:40	0.014	0.014	0.015	0.015	0.015	0.013
Modem 49913	2/5/2025 17:20	2/5/2025 17:30	0.015	0.015	0.015	0.015	0.015	0.013
Modem 49913	2/5/2025 17:10	2/5/2025 17:20	0.014	0.014	0.015	0.015	0.015	0.013
Modem 49913	2/5/2025 17:00	2/5/2025 17:10	0.015	0.015	0.015	0.015	0.015	0.012
Modem 49913	2/5/2025 16:50	2/5/2025 17:00	0.015	0.015	0.015	0.015	0.015	0.012
Modem 49913	2/5/2025 16:40	2/5/2025 16:50	0.015	0.016	0.016	0.016	0.016	0.011
Modem 49913	2/5/2025 16:30	2/5/2025 16:40	0.014	0.015	0.015	0.015	0.015	0.011
Modem 49913	2/5/2025 16:20	2/5/2025 16:30	0.012	0.012	0.012	0.013	0.013	0.010
Modem 49913	2/5/2025 16:10	2/5/2025 16:20	0.010	0.010	0.010	0.010	0.010	0.010
Modem 49913	2/5/2025 16:00	2/5/2025 16:10	0.009	0.009	0.010	0.010	0.010	0.009
Modem 49913	2/5/2025 15:50	2/5/2025 16:00	0.011	0.012	0.012	0.012	0.012	0.009
Modem 49913	2/5/2025 15:40	2/5/2025 15:50	0.008	0.008	0.008	0.008	0.008	0.008
Modem 49913	2/5/2025 15:30	2/5/2025 15:40	0.013	0.013	0.013	0.014	0.014	0.008
Modem 49913	2/5/2025 15:20	2/5/2025 15:30	0.009	0.010	0.010	0.010	0.010	0.007

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202349-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	2/5/2025 15:10	2/5/2025 15:20	0.010	0.010	0.010	0.010	0.010	0.006
Modem 49913	2/5/2025 15:00	2/5/2025 15:10	0.009	0.009	0.009	0.010	0.010	0.006
Modem 49913	2/5/2025 14:50	2/5/2025 15:00	0.008	0.009	0.009	0.009	0.009	0.005
Modem 49913	2/5/2025 14:40	2/5/2025 14:50	0.008	0.008	0.008	0.008	0.008	0.005
Modem 49913	2/5/2025 14:30	2/5/2025 14:40	0.007	0.007	0.007	0.008	0.008	0.006
Modem 49913	2/5/2025 14:20	2/5/2025 14:30	0.007	0.007	0.007	0.007	0.008	0.006
Modem 49913	2/5/2025 14:10	2/5/2025 14:20	0.008	0.008	0.008	0.008	0.009	0.006
Modem 49913	2/5/2025 14:00	2/5/2025 14:10	0.003	0.003	0.003	0.003	0.003	0.006
Modem 49913	2/5/2025 13:50	2/5/2025 14:00	0.003	0.003	0.003	0.003	0.003	0.006
Modem 49913	2/5/2025 13:40	2/5/2025 13:50	0.004	0.004	0.004	0.004	0.004	0.007
Modem 49913	2/5/2025 13:30	2/5/2025 13:40	0.003	0.003	0.003	0.004	0.004	0.007
Modem 49913	2/5/2025 13:20	2/5/2025 13:30	0.003	0.003	0.003	0.003	0.003	0.008
Modem 49913	2/5/2025 13:10	2/5/2025 13:20	0.003	0.003	0.003	0.004	0.004	0.008
Modem 49913	2/5/2025 13:00	2/5/2025 13:10	0.003	0.003	0.003	0.003	0.003	0.008
Modem 49913	2/5/2025 12:50	2/5/2025 13:00	0.005	0.005	0.005	0.005	0.005	0.009
Modem 49913	2/5/2025 12:40	2/5/2025 12:50	0.008	0.009	0.009	0.009	0.009	0.009
Modem 49913	2/5/2025 12:30	2/5/2025 12:40	0.010	0.010	0.010	0.011	0.011	0.009
Modem 49913	2/5/2025 12:20	2/5/2025 12:30	0.008	0.008	0.008	0.009	0.009	0.008
Modem 49913	2/5/2025 12:10	2/5/2025 12:20	0.008	0.008	0.008	0.008	0.008	0.008
Modem 49913	2/5/2025 12:00	2/5/2025 12:10	0.009	0.009	0.010	0.010	0.010	0.008
Modem 49913	2/5/2025 11:50	2/5/2025 12:00	0.008	0.008	0.008	0.009	0.009	
Modem 49913	2/5/2025 11:40	2/5/2025 11:50	0.008	0.008	0.008	0.008	0.008	
Modem 49913	2/5/2025 11:30	2/5/2025 11:40	0.010	0.010	0.010	0.010	0.011	
Modem 49913	2/5/2025 11:20	2/5/2025 11:30	0.009	0.010	0.010	0.010	0.010	
Modem 49913	2/5/2025 11:10	2/5/2025 11:20	0.009	0.009	0.009	0.009	0.009	
Modem 49913	2/5/2025 11:00	2/5/2025 11:10	0.006	0.006	0.006	0.006	0.007	
Modem 49913	2/5/2025 10:50	2/5/2025 11:00	0.007	0.007	0.007	0.007	0.007	
Modem 49913	2/5/2025 10:40	2/5/2025 10:50	0.007	0.007	0.007	0.007	0.007	
Modem 49913	2/5/2025 10:30	2/5/2025 10:40	0.007	0.007	0.007	0.008	0.008	
Modem 49913	2/5/2025 10:20	2/5/2025 10:30	0.004	0.004	0.005	0.006	0.007	
Modem 49913	2/5/2025 10:10	2/5/2025 10:20	0.004	0.004	0.005	0.006	0.007	
Modem 49913	2/5/2025 10:00	2/5/2025 10:10	0.004	0.004	0.005	0.006	0.007	



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH

HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

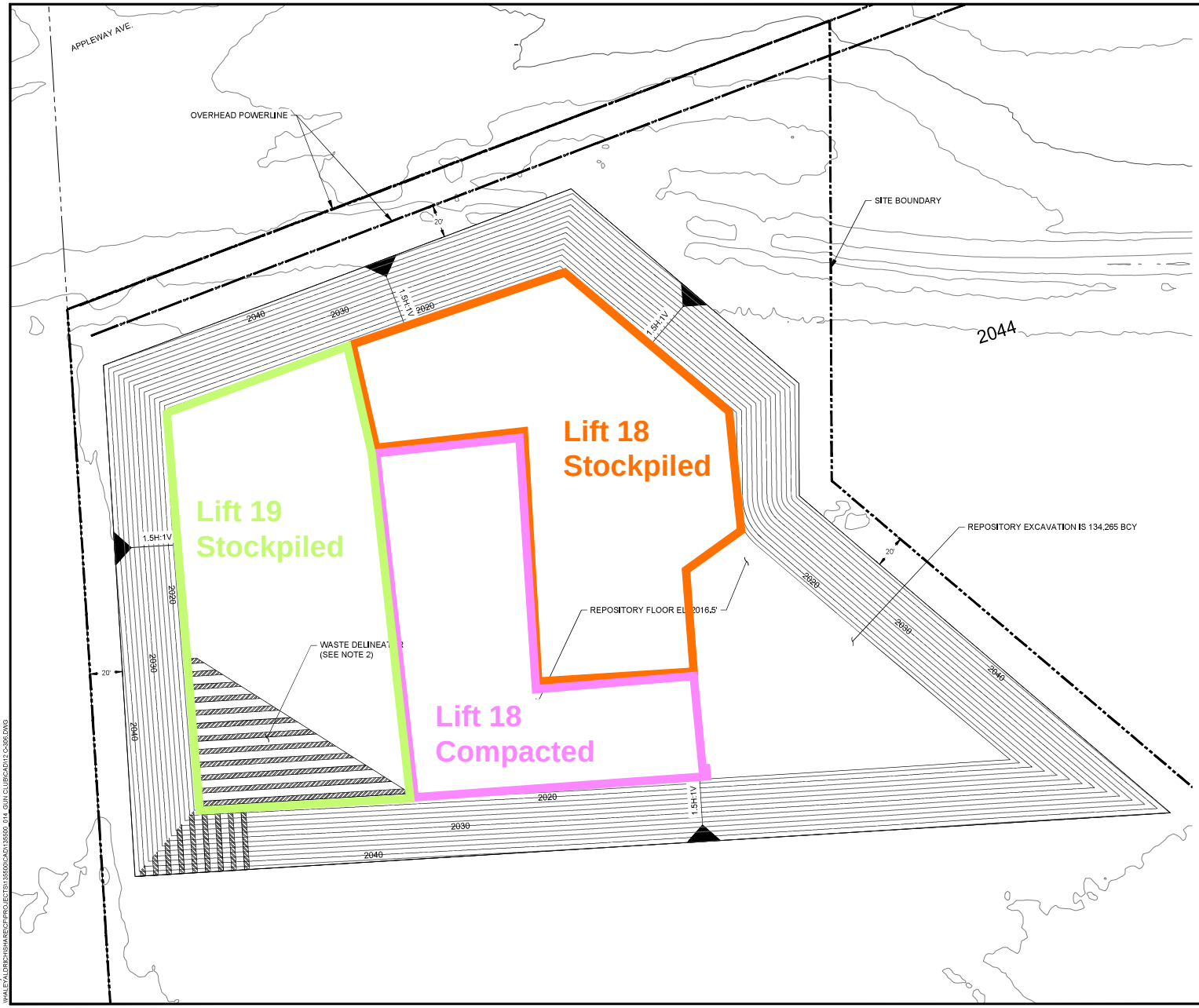
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
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7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
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12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE, SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
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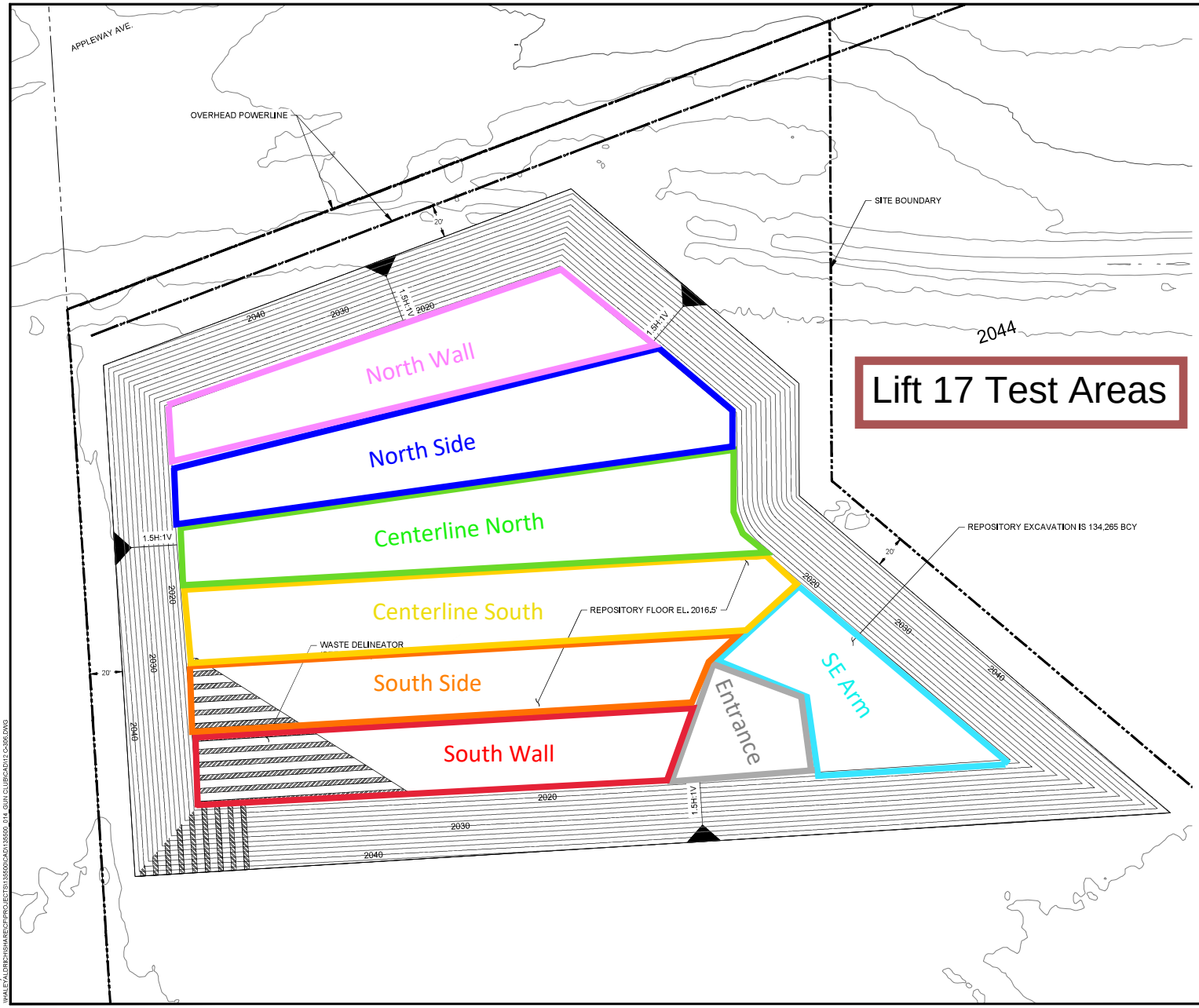
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REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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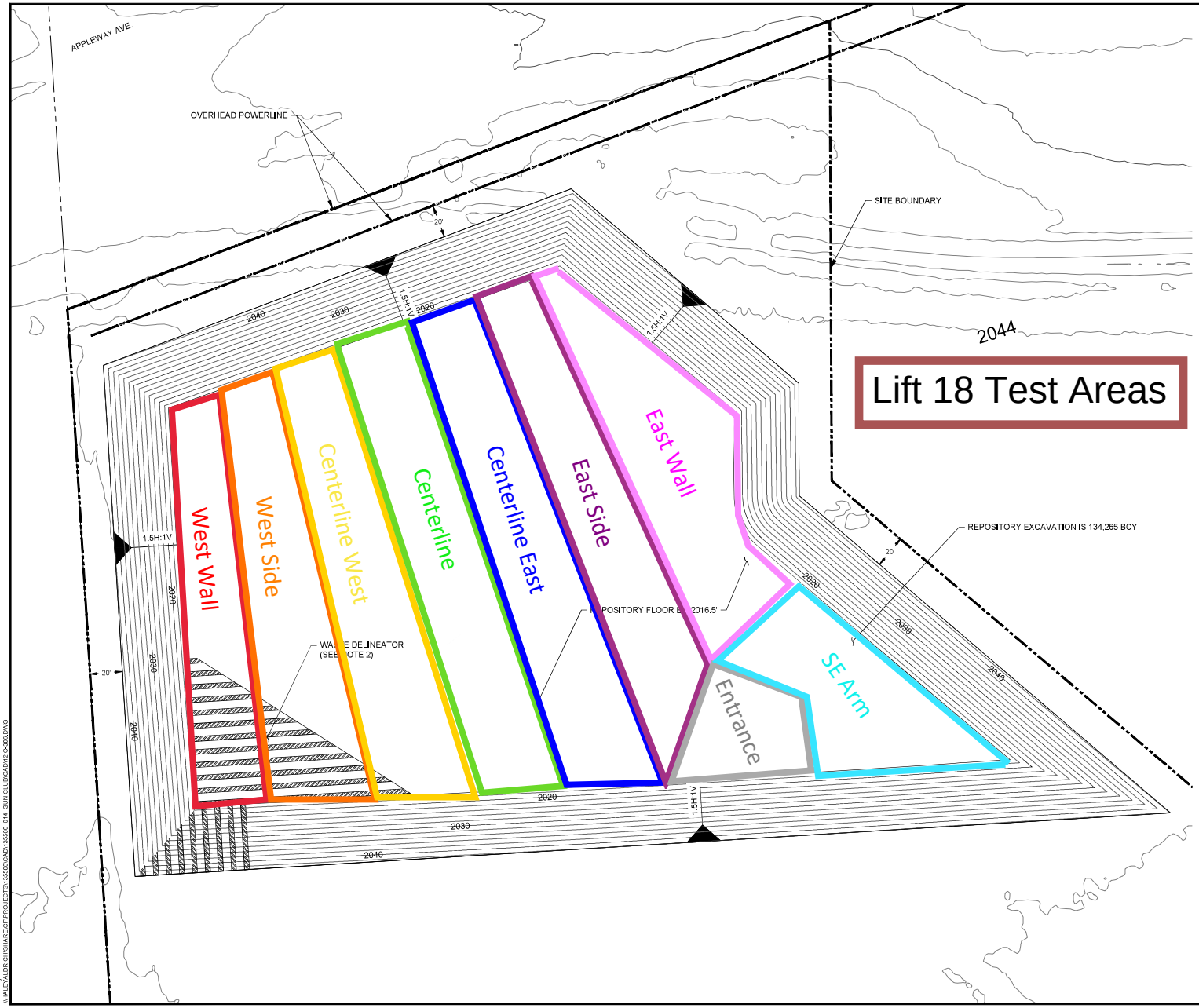
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REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

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REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	58
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	06 February 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Cloudy to Sunny	**Temperature**	25-34°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Haley & Aldrich, Inc. (H&A) observed further excavation of the 7-foot cut running east to west across the Site, with the east side of the cut being excavated to final grade today. The soil excavated from this area was then taken directly to the repository as fill.

b. Confirmation Sampling: Sample Units 115, 116, and 105 were sampled today, with each Unit being divided into four quadrants. A discrete sample was collected from the approximate center of each quadrant, resulting in four samples per Unit and a total of 12 samples overall. The Chain of Custody (COC) for these samples is attached.

c. Backfill: H&A observed scarifying and compacting of Lift No. 18 and backfilling of Lift No. 19 in the repository. As different areas of the repository were cleared, Halme brought in fill to the repository for Lift No. 19 and deposited this soil in small stockpiles. By the end of the day, Lift No. 18 had been cleared as adequately compacted everywhere except the east side, with the cleared areas being mostly covered by these Lift No. 19 stockpiles.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of excavation and backfill today and operated from 07:15 to 16:15. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 90% and the wind was to the south-southwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates at the downwind property boundary. However, they did exceed the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Both the upwind and downwind monitors reported nearly the same dust concentrations, within a reasonable level of variance. This can be attributed to the day's high humidity level and changing weather conditions. After subtracting upwind measurements from downwind measurements, the 0.025 mg/m^3 PM_{10} 120-minute rolling average was not exceeded. Dust monitoring data is attached.

III. COMPACTION TESTING:

The Troxler E-Gauge 4590 was the preferred method of compaction testing, with a density greater than or equal to 90% of the 134.0 pounds per square foot ($lbs./ft^3$) proctor indicating adequate compaction. However, in cases where the E-Gauge was temporarily out of service or a section of the repository that was visually well-compacted failed after multiple tests with the E-Gauge, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Regardless of method, areas demonstrating non-compliance due to inadequate compaction or inadequate penetration were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	58
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	06 February 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Cloudy to Sunny	**Temperature**	25-34°F

The following compaction tests were performed today with the T-Probe:

Table 1. T-Probe Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Test Result
18/10	Centerline East	14:30	2-6”	Pass
18/11	Centerline East	14:30	2-6”	Pass
18/12	Centerline East	14:30	>6”	Fail
18/12	Centerline East	14:30	>6”	Fail
18/14	Centerline East	14:30	>6”	Fail
18/15	Centerline East	14:30	>6”	Fail
18/16	Centerline East	15:00	2-6”	Pass
18/17	Centerline East	15:00	2-6”	Pass
18/18	Centerline East	15:00	2-6”	Pass
18/19	Centerline East	15:00	2-6”	Pass

The following compaction tests were performed today with the E-Gauge:

Table 2. E-Gauge Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Dry Density (pcf)	Wet Density (pcf)	% Moisture	% Proctor	Test Result
18/1	Centerline West	09:00	10”	125.4	128.4	2.4	93.6	Pass
18/2	Centerline West	09:15	10”	113.4	117.9	3.9	84.7	Fail
18/3	Centerline West	09:30	10”	120.1	124.3	3.5	89.6	Fail
18/4	Centerline West	09:45	10”	125.4	129.5	3.3	93.6	Pass
18/1	Centerline West	10:00	10”	131.5	134.7	2.5	98.1	Pass
18/6	Centerline	10:15	10”	123.2	126.0	2.2	91.9	Pass
18/7	Centerline	10:30	10”	122.6	126.9	3.6	91.5	Pass
18/8	Centerline	10:45	10”	121.7	125.3	3.0	90.8	Pass
18/9	Centerline	11:00	10”	131.2	136.5	4.0	97.9	Pass

These tests yielded a total of 13 passing results across the sections of Lift No. 18 listed above. Because the east side of this Lift was not compacted nor tested today, Halme was instructed to not put any fill on this side of the repository until it had been scarified, recompacted, tested, and cleared.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	58
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Weather	Cloudy to Sunny	**Temperature**	25-34°F

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 18 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Cameron Luckey	6 hours	0 hours	6 hours
Luke Peden	4 hours	1 hour	5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Confirmation Sampling Plan
Attachment E – Repository Subgrade Excavation Plan
Attachment F – Repository Subgrade Excavation Plan (Sections)



Haley & Aldrich, Inc.

https://haleyaldrich.sharepoint.com/sites/CentralValleySchoolDistrict356/Shared Documents/0202349.Gun Club - Bid and Tech Support/-002 Construction Support/Data/Field Data/DFR/2025/02 - February/02_06_25_CAL_LWP_DFR_58/02_06_25_LWP_DFR.docx



Photo 01. Lift No. 18 compaction – centerline east (view looking north).

Site Photographs – 06 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	DW-UW (mg/m^3)
Upwind									
Modem 47181	2/6/2025 20:20	2/6/2025 20:30	0.021	0.021	0.021	0.021	0.021	0.022	
Modem 47181	2/6/2025 20:10	2/6/2025 20:20	0.021	0.021	0.021	0.021	0.021	0.022	
Modem 47181	2/6/2025 20:00	2/6/2025 20:10	0.021	0.021	0.021	0.021	0.021	0.022	
Modem 47181	2/6/2025 19:50	2/6/2025 20:00	0.021	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/6/2025 19:40	2/6/2025 19:50	0.021	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/6/2025 19:30	2/6/2025 19:40	0.021	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/6/2025 19:20	2/6/2025 19:30	0.021	0.021	0.021	0.021	0.021	0.021	
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Modem 47181	2/6/2025 19:00	2/6/2025 19:10	0.023	0.023	0.023	0.023	0.023	0.020	
Modem 47181	2/6/2025 18:50	2/6/2025 19:00	0.024	0.024	0.024	0.024	0.024	0.020	
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Modem 47181	2/6/2025 18:10	2/6/2025 18:20	0.022	0.022	0.022	0.022	0.022	0.019	
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Modem 47181	2/6/2025 17:20	2/6/2025 17:30	0.018	0.018	0.018	0.018	0.018	0.017	
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Modem 47181	2/6/2025 17:00	2/6/2025 17:10	0.018	0.018	0.018	0.018	0.018	0.017	
Modem 47181	2/6/2025 16:50	2/6/2025 17:00	0.014	0.014	0.014	0.014	0.014	0.017	
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Modem 47181	2/6/2025 16:30	2/6/2025 16:40	0.020	0.021	0.021	0.021	0.021	0.017	
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Modem 47181	2/6/2025 16:10	2/6/2025 16:20	0.020	0.020	0.021	0.021	0.021	0.016	
Modem 47181	2/6/2025 16:00	2/6/2025 16:10	0.016	0.016	0.016	0.016	0.016	0.016	
Modem 47181	2/6/2025 15:50	2/6/2025 16:00	0.015	0.015	0.015	0.015	0.015	0.017	
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Modem 47181	2/6/2025 15:00	2/6/2025 15:10	0.010	0.010	0.010	0.011	0.011	0.018	
Modem 47181	2/6/2025 14:50	2/6/2025 15:00	0.023	0.023	0.024	0.024	0.024	0.019	
Modem 47181	2/6/2025 14:40	2/6/2025 14:50	0.015	0.016	0.016	0.016	0.016	0.018	
Modem 47181	2/6/2025 14:30	2/6/2025 14:40	0.012	0.012	0.012	0.012	0.012	0.018	
Modem 47181	2/6/2025 14:20	2/6/2025 14:30	0.015	0.016	0.016	0.016	0.016	0.020	
Modem 47181	2/6/2025 14:10	2/6/2025 14:20	0.018	0.019	0.019	0.019	0.019	0.022	
Modem 47181	2/6/2025 14:00	2/6/2025 14:10	0.019	0.019	0.020	0.020	0.020	0.023	
Modem 47181	2/6/2025 13:50	2/6/2025 14:00	0.019	0.019	0.019	0.020	0.020	0.024	
Modem 47181	2/6/2025 13:40	2/6/2025 13:50	0.017	0.018	0.018	0.018	0.018	0.025	
Modem 47181	2/6/2025 13:30	2/6/2025 13:40	0.017	0.018	0.018	0.018	0.018	0.026	
Modem 47181	2/6/2025 13:20	2/6/2025 13:30	0.019	0.019	0.020	0.020	0.020	0.027	
Modem 47181	2/6/2025 13:10	2/6/2025 13:20	0.019	0.020	0.020	0.020	0.020	0.028	
Modem 47181	2/6/2025 13:00	2/6/2025 13:10	0.019	0.019	0.020	0.020	0.020	0.029	
Modem 47181	2/6/2025 12:50	2/6/2025 13:00	0.019	0.019	0.019	0.019	0.019	0.029	
Modem 47181	2/6/2025 12:40	2/6/2025 12:50	0.018	0.018	0.019	0.019	0.019	0.031	
Modem 47181	2/6/2025 12:30	2/6/2025 12:40	0.019	0.019	0.019	0.019	0.019	0.030	
Modem 47181	2/6/2025 12:20	2/6/2025 12:30	0.031	0.032	0.032	0.032	0.032	0.030	
Modem 47181	2/6/2025 12:10	2/6/2025 12:20	0.034	0.035	0.035	0.036	0.036	0.029	
Modem 47181	2/6/2025 12:00	2/6/2025 12:10	0.037	0.037	0.038	0.039	0.039	0.027	

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	DW-UW (mg/m^3)
Modem 47181	2/6/2025 11:50	2/6/2025 12:00	0.035	0.036	0.036	0.037	0.037		
Modem 47181	2/6/2025 11:40	2/6/2025 11:50	0.031	0.032	0.032	0.033	0.033		
Modem 47181	2/6/2025 11:30	2/6/2025 11:40	0.030	0.031	0.031	0.031	0.031		
Modem 47181	2/6/2025 11:20	2/6/2025 11:30	0.029	0.029	0.030	0.030	0.030		
Modem 47181	2/6/2025 11:10	2/6/2025 11:20	0.029	0.029	0.029	0.029	0.029		
Modem 47181	2/6/2025 11:00	2/6/2025 11:10	0.028	0.028	0.028	0.028	0.028		
Modem 47181	2/6/2025 10:50	2/6/2025 11:00	0.030	0.030	0.031	0.031	0.031		
Modem 47181	2/6/2025 10:40	2/6/2025 10:50	0.033	0.033	0.033	0.034	0.034		
Modem 47181	2/6/2025 10:30	2/6/2025 10:40	0.014	0.014	0.014	0.015	0.016		
Modem 47181	2/6/2025 10:20	2/6/2025 10:30	0.014	0.014	0.014	0.015	0.016		
Modem 47181	2/6/2025 10:10	2/6/2025 10:20	0.014	0.014	0.014	0.015	0.016		
Modem 47181	2/6/2025 10:00	2/6/2025 10:10	0.014	0.014	0.014	0.015	0.016		
Downwind									
Modem 49913	2/6/2025 20:20	2/6/2025 20:30	0.010	0.010	0.010	0.010	0.010	0.016	-0.005
Modem 49913	2/6/2025 20:10	2/6/2025 20:20	0.010	0.010	0.010	0.010	0.010	0.017	-0.004
Modem 49913	2/6/2025 20:00	2/6/2025 20:10	0.010	0.010	0.010	0.010	0.010	0.018	-0.003
Modem 49913	2/6/2025 19:50	2/6/2025 20:00	0.010	0.010	0.010	0.010	0.010	0.019	-0.003
Modem 49913	2/6/2025 19:40	2/6/2025 19:50	0.010	0.010	0.010	0.010	0.010	0.019	-0.002
Modem 49913	2/6/2025 19:30	2/6/2025 19:40	0.011	0.011	0.011	0.011	0.011	0.020	-0.001
Modem 49913	2/6/2025 19:20	2/6/2025 19:30	0.014	0.014	0.014	0.014	0.014	0.021	0.000
Modem 49913	2/6/2025 19:10	2/6/2025 19:20	0.016	0.016	0.016	0.016	0.016	0.021	0.000
Modem 49913	2/6/2025 19:00	2/6/2025 19:10	0.022	0.023	0.023	0.023	0.023	0.020	0.000
Modem 49913	2/6/2025 18:50	2/6/2025 19:00	0.023	0.024	0.024	0.024	0.024	0.020	0.000
Modem 49913	2/6/2025 18:40	2/6/2025 18:50	0.024	0.024	0.024	0.025	0.025	0.019	0.000
Modem 49913	2/6/2025 18:30	2/6/2025 18:40	0.024	0.024	0.025	0.025	0.025	0.018	0.000
Modem 49913	2/6/2025 18:20	2/6/2025 18:30	0.024	0.024	0.024	0.025	0.025	0.018	-0.001
Modem 49913	2/6/2025 18:10	2/6/2025 18:20	0.021	0.021	0.021	0.022	0.022	0.018	-0.001
Modem 49913	2/6/2025 18:00	2/6/2025 18:10	0.021	0.022	0.022	0.022	0.022	0.017	-0.001
Modem 49913	2/6/2025 17:50	2/6/2025 18:00	0.017	0.017	0.017	0.017	0.018	0.017	-0.001
Modem 49913	2/6/2025 17:40	2/6/2025 17:50	0.015	0.015	0.015	0.015	0.015	0.016	-0.001
Modem 49913	2/6/2025 17:30	2/6/2025 17:40	0.019	0.019	0.019	0.019	0.019	0.016	-0.001
Modem 49913	2/6/2025 17:20	2/6/2025 17:30	0.019	0.019	0.019	0.019	0.019	0.016	-0.001
Modem 49913	2/6/2025 17:10	2/6/2025 17:20	0.014	0.014	0.014	0.014	0.014	0.016	-0.001
Modem 49913	2/6/2025 17:00	2/6/2025 17:10	0.013	0.014	0.014	0.014	0.014	0.015	-0.001
Modem 49913	2/6/2025 16:50	2/6/2025 17:00	0.014	0.014	0.014	0.015	0.015	0.016	-0.001
Modem 49913	2/6/2025 16:40	2/6/2025 16:50	0.014	0.014	0.014	0.014	0.014	0.016	-0.001
Modem 49913	2/6/2025 16:30	2/6/2025 16:40	0.018	0.018	0.018	0.018	0.018	0.016	-0.001
Modem 49913	2/6/2025 16:20	2/6/2025 16:30	0.019	0.019	0.020	0.020	0.020	0.016	-0.001
Modem 49913	2/6/2025 16:10	2/6/2025 16:20	0.022	0.022	0.022	0.022	0.022	0.015	-0.001
Modem 49913	2/6/2025 16:00	2/6/2025 16:10	0.014	0.014	0.014	0.014	0.014	0.015	-0.001
Modem 49913	2/6/2025 15:50	2/6/2025 16:00	0.013	0.013	0.013	0.013	0.013	0.015	-0.001
Modem 49913	2/6/2025 15:40	2/6/2025 15:50	0.015	0.015	0.015	0.015	0.015	0.015	-0.001
Modem 49913	2/6/2025 15:30	2/6/2025 15:40	0.015	0.016	0.016	0.016	0.016	0.016	-0.001
Modem 49913	2/6/2025 15:20	2/6/2025 15:30	0.020	0.020	0.020	0.020	0.020	0.016	-0.002
Modem 49913	2/6/2025 15:10	2/6/2025 15:20	0.011	0.011	0.011	0.011	0.011	0.015	-0.002
Modem 49913	2/6/2025 15:00	2/6/2025 15:10	0.008	0.009	0.009	0.009	0.009	0.016	-0.002
Modem 49913	2/6/2025 14:50	2/6/2025 15:00	0.021	0.021	0.022	0.022	0.022	0.017	-0.002
Modem 49913	2/6/2025 14:40	2/6/2025 14:50	0.016	0.016	0.016	0.016	0.016	0.017	-0.002
Modem 49913	2/6/2025 14:30	2/6/2025 14:40	0.011	0.011	0.011	0.011	0.011	0.018	-0.001
Modem 49913	2/6/2025 14:20	2/6/2025 14:30	0.014	0.014	0.014	0.014	0.014	0.020	0.000
Modem 49913	2/6/2025 14:10	2/6/2025 14:20	0.016	0.016	0.016	0.016	0.016	0.022	0.000
Modem 49913	2/6/2025 14:00	2/6/2025 14:10	0.016	0.016	0.017	0.017	0.017	0.023	0.000

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)	DW-UW (mg/m^3)
Modem 49913	2/6/2025 13:50	2/6/2025 14:00	0.016	0.016	0.017	0.017	0.017	0.025	0.001
Modem 49913	2/6/2025 13:40	2/6/2025 13:50	0.016	0.016	0.016	0.016	0.017	0.026	0.001
Modem 49913	2/6/2025 13:30	2/6/2025 13:40	0.016	0.016	0.016	0.016	0.016	0.027	0.001
Modem 49913	2/6/2025 13:20	2/6/2025 13:30	0.017	0.017	0.018	0.018	0.018	0.028	0.001
Modem 49913	2/6/2025 13:10	2/6/2025 13:20	0.017	0.017	0.017	0.017	0.017	0.029	0.001
Modem 49913	2/6/2025 13:00	2/6/2025 13:10	0.019	0.019	0.019	0.019	0.019	0.030	0.001
Modem 49913	2/6/2025 12:50	2/6/2025 13:00	0.020	0.020	0.021	0.021	0.021	0.031	0.001
Modem 49913	2/6/2025 12:40	2/6/2025 12:50	0.017	0.018	0.018	0.018	0.018	0.032	0.002
Modem 49913	2/6/2025 12:30	2/6/2025 12:40	0.027	0.027	0.027	0.027	0.027	0.034	0.004
Modem 49913	2/6/2025 12:20	2/6/2025 12:30	0.037	0.037	0.038	0.038	0.038	0.033	0.003
Modem 49913	2/6/2025 12:10	2/6/2025 12:20	0.039	0.040	0.040	0.040	0.040	0.031	0.002
Modem 49913	2/6/2025 12:00	2/6/2025 12:10	0.038	0.039	0.039	0.040	0.040	0.029	0.001
Modem 49913	2/6/2025 11:50	2/6/2025 12:00	0.035	0.035	0.035	0.036	0.036		0.000
Modem 49913	2/6/2025 11:40	2/6/2025 11:50	0.031	0.032	0.032	0.032	0.032		0.000
Modem 49913	2/6/2025 11:30	2/6/2025 11:40	0.028	0.028	0.029	0.029	0.029		0.000
Modem 49913	2/6/2025 11:20	2/6/2025 11:30	0.028	0.028	0.028	0.029	0.029		0.000
Modem 49913	2/6/2025 11:10	2/6/2025 11:20	0.029	0.029	0.029	0.029	0.029		0.000
Modem 49913	2/6/2025 11:00	2/6/2025 11:10	0.029	0.030	0.030	0.030	0.030		0.000
Modem 49913	2/6/2025 10:50	2/6/2025 11:00	0.030	0.030	0.031	0.031	0.031		0.000
Modem 49913	2/6/2025 10:40	2/6/2025 10:50	0.038	0.039	0.039	0.039	0.039		0.000
Modem 49913	2/6/2025 10:30	2/6/2025 10:40	0.041	0.042	0.042	0.042	0.042		0.000
Modem 49913	2/6/2025 10:20	2/6/2025 10:30	0.012	0.012	0.012	0.012	0.012		0.000
Modem 49913	2/6/2025 10:10	2/6/2025 10:20	0.012	0.012	0.012	0.012	0.012		0.000
Modem 49913	2/6/2025 10:00	2/6/2025 10:10	0.012	0.012	0.012	0.012	0.012		0.000

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/10/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List	Analysis Requested	Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)
C_115_7_1	2/6/2025	14:00	7 ft	Soil	X	X	X		1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
C_115_7_2	2/6/2025	14:05	7 ft	Soil	X	X	X		1	
~~C_115_7_3~~	~~2/6/2025~~	~~14:10~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1	
~~C_115_7_4~~	~~2/6/2025~~	~~14:15~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1	
C_116_7_1	2/6/2025	15:25	7 ft	Soil	X	X	X		1	
C_116_7_2	2/6/2025	15:30	7 ft	Soil	X	X	X		1	
~~C_116_7_3~~	~~2/6/2025~~	~~15:35~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1	
~~C_116_7_4~~	~~2/6/2025~~	~~15:40~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1	
C_105_7_1	2/6/2025	15:45	7 ft	Soil	X	X	X		1	2.5, 2.9 corr IR006
C_105_7_2	2/6/2025	15:50	7 ft	Soil	X	X	X		1	0.4, 0.8 corr IR006
										0.5, 0.9 corr IR006

Sampled and Relinquished by	Received by
Sign	Sign
Print Lorre Pelan	Print Macky Mans
Firm Haley & Aldrich	Firm EETSPO
Date 2/7/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein
_____ This Chain of Custody Record (specify) _____includes _____does not include samples defined as Drinking Water Samples.
_____
_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as ap

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/10/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List		Number of Containers
~~C_105_7_3~~	~~2/6/2025~~	~~15:55~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1
~~C_105_7_4~~	~~2/6/2025~~	~~16:00~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1
C_103_7_1	2/7/2025	13:00	7 ft	Soil	X	X	X		1
C_103_7_2	2/7/2025	13:05	7 ft	Soil	X	X	X		1
~~C_103_7_3~~	~~2/7/2025~~	~~13:10~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1
~~C_103_7_4~~	~~2/7/2025~~	~~13:15~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1
C_92_7_1	2/7/2025	13:35	7 ft	Soil	X	X	X		1
C_92_7_2	2/7/2025	13:40	7 ft	Soil	X	X	X		1
~~C_92_7_3~~	~~2/7/2025~~	~~13:45~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1
~~C_92_7_4~~	~~2/7/2025~~	~~13:50~~	~~7 ft~~	~~Soil~~	~~X~~	~~X~~	~~X~~	HOLD	1

Analysis Requested

Comments(special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.9 + 0.8 = 0.9 corr IR006

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Peden	Print Macky Morris
Firm H&A	Firm EEC 8520
Date 2/10/25 Time 13:12	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume

SOLID

VOA Vial	Amber Glass	Clear Glass	Preservative	Volume

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

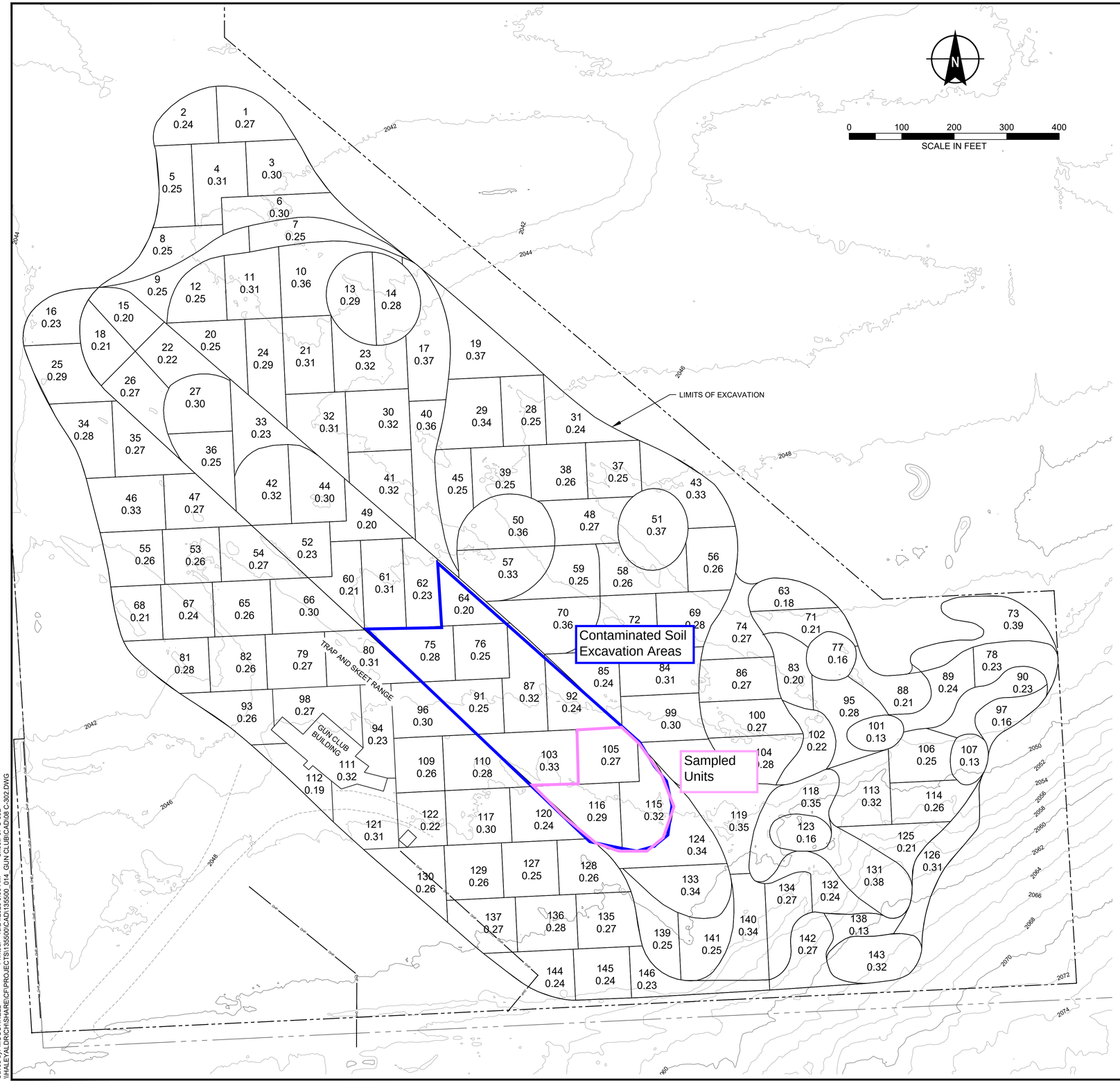
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as ap

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND DELINEATING THE LIMITS OF THE SAMPLE UNITS SHOWN, AS NECESSARY TO COMPLETE THE WORK.
2. CONTRACTOR SHALL NOT BACKFILL WITHIN THE LIMITS OF ANY INDIVIDUAL SAMPLING UNTIL RECEIVING APPROVAL BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CONFIRMATION SAMPLING AT LEAST 2 WORKING DAYS IN ADVANCE FOR EACH SAMPLING UNIT.
4. ALLOW UP TO 5 DAYS FOR THE ENGINEER TO COLLECT CONFIRMATION SAMPLES FOLLOWING IMPACTED SOIL EXCAVATION AND 10 TO 15 DAYS FOR ANALYTICAL RESULTS. CONFIRMATION SAMPLING RESULTS ARE EXPECTED TO TAKE BETWEEN 10 AND 15 DAYS, POSSIBLY LONGER. THE EXACT NUMBER OF DAYS REQUIRED WILL NOT BE KNOWN UNTIL THE FIRST SAMPLES ARE PROCESSED AND COULD VARY BETWEEN SAMPLING UNITS DEPENDING ON SHIPPING AND MOISTURE CONTENT. THE CONTRACTOR SHALL PLAN THE WORK ACCORDINGLY.
5. ONCE A SAMPLING UNIT IS DESIGNATED FOR CONFIRMATION SAMPLING IMPACTED SOILS SHALL NO LONGER BE TRANSPORTED THROUGH THAT SAMPLING UNIT.
6. CLEAN BACKFILL FROM THE REPOSITORY CAN BE STOCKPILED ADJACENT TO SAMPLING UNITS OUTSIDE THE LIMITS OF EXCAVATION IN LOCATIONS APPROVED BY THE ENGINEER.

LEGEND

73	SAMPLE UNIT ID
0.39	AREA (ACRES)

UNIT ID	AREA (AC.)
1	0.27
2	0.24
3	0.30
4	0.31
5	0.25
6	0.30
7	0.25
8	0.25
9	0.25
10	0.36
11	0.31
12	0.25
13	0.29
14	0.28
15	0.20
16	0.23
17	0.37
18	0.21
19	0.37
20	0.25
21	0.31
22	0.22
23	0.32
24	0.29
25	0.29
26	0.27
27	0.30
28	0.25
29	0.34
30	0.32
31	0.24
32	0.31
33	0.23
34	0.28
35	0.27
36	0.25
37	0.25
38	0.26
39	0.25
40	0.36
41	0.32
42	0.32
43	0.33
44	0.30
45	0.25
46	0.33
47	0.27
48	0.27
49	0.20
50	0.36
51	0.37
52	0.23
53	0.26
54	0.27
55	0.26
56	0.26
57	0.33
58	0.26

UNIT ID	AREA (AC.)
59	0.25
60	0.21
61	0.31
62	0.23
63	0.18
64	0.20
65	0.26
66	0.30
67	0.24
68	0.21
69	0.28
70	0.36
71	0.21
72	0.30
73	0.39
74	0.27
75	0.28
76	0.25
77	0.16
78	0.23
79	0.27
80	0.31
81	0.28
82	0.26
83	0.20
84	0.31
85	0.24
86	0.27
87	0.32
88	0.21
89	0.24
90	0.23
91	0.25
92	0.24
93	0.26
94	0.23
95	0.28
96	0.30
97	0.16
98	0.27
99	0.30
100	0.27
101	0.13
102	0.22
103	0.33
104	0.28
105	0.27
106	0.25
107	0.13
108	0.27
109	0.26
110	0.28
111	0.32
112	0.19
113	0.32
114	0.26
115	0.32
116	0.29

UNIT ID	AREA (AC.)
117	0.30
118	0.35
119	0.35
120	0.24
121	0.31
122	0.22
123	0.16
124	0.34
125	0.21
126	0.31
127	0.25
128	0.26
129	0.26
130	0.26
131	0.38
132	0.24
133	0.34
134	0.27
135	0.27
136	0.28
137	0.27
138	0.13
139	0.25
140	0.34
141	0.25
142	0.27
143	0.32
144	0.24
145	0.24
146	0.23
TOTAL	39.42

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE. SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

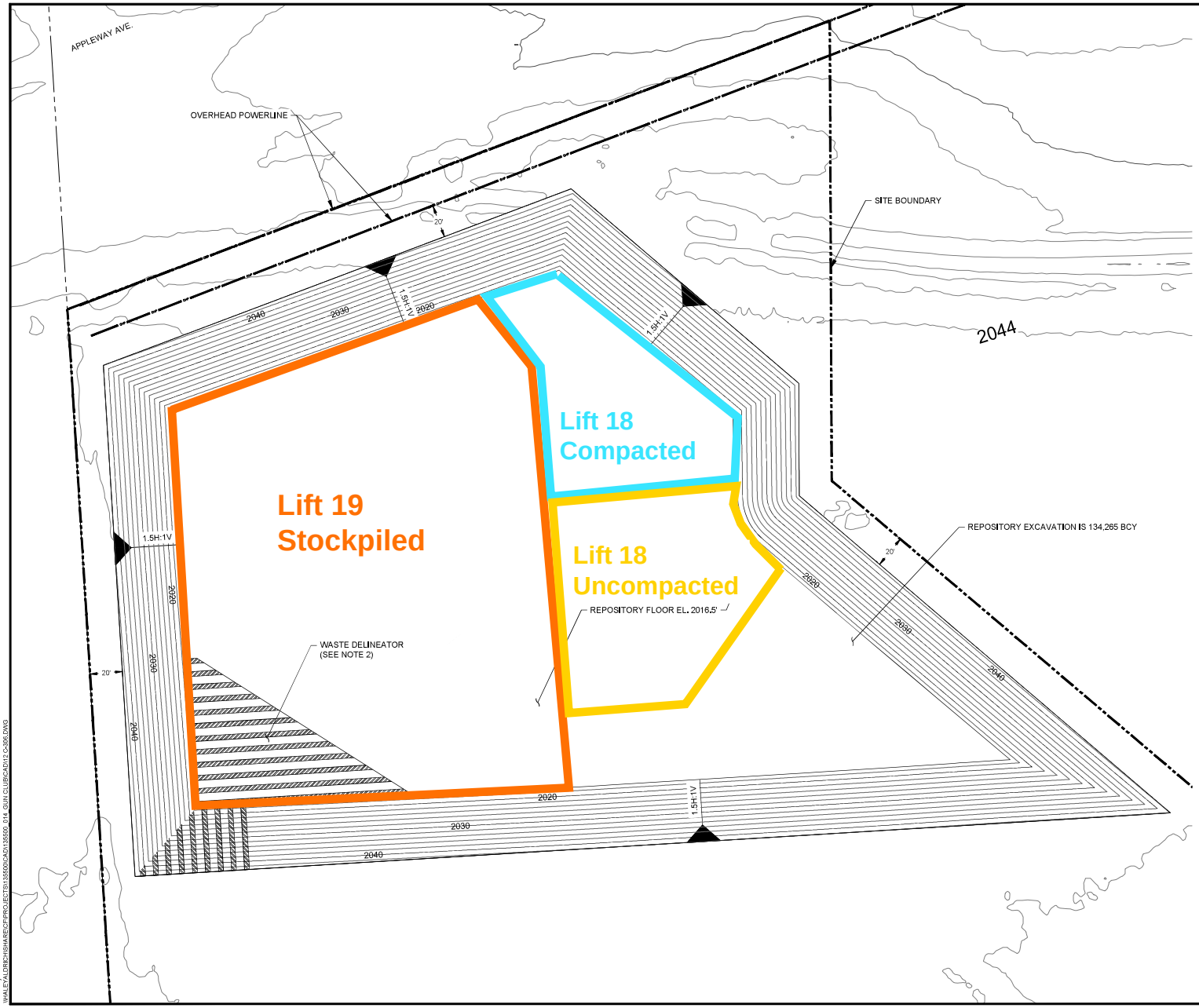
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

CONFIRMATION SAMPLING PLAN

C-302

Sheet: 07 of 21

Saved by: MOCONNELL Printed: 10/24/2023 9:59 AM Sheet: 07 C-302
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
2. A VISUAL REFERENCE FOR THE DELINEATION BETWEEN NATIVE SOIL AND MATERIAL PLACED IN THE REPOSITORY IS REQUIRED. REFERRED TO HEREIN AS A WASTE DELINEATOR.
3. ORANGE SILT FENCE IN ROLLS 3 FEET WIDE (OR AND APPROVED EQUAL) IS REQUIRED TO BE PLACED 8 FEET O.C. WITH A SPACING BETWEEN THE FABRIC OF 5 FEET IN THE BOTTOM AND ALONG THE CUT SLOPES OF THE REPOSITORY AS A WASTE DELINEATOR.
4. THE ORIENTATION OF THE WASTE DELINEATOR CAN VARY ACROSS THE BOTTOM OF THE REPOSITORY EXCAVATION AS APPROVED BY THE ENGINEER.
5. IMPACTED SOILS SHALL BE PLACED IN THE REPOSITORY IN HORIZONTAL LIFTS NOT TO EXCEED 1.5 FEET IN TOTAL THICKNESS AND COMPACTED TO AT LEAST 90% PER MODIFIED PROCTOR ASTM D 1557/AASHTO T 180.
6. CONCRETE AND OTHER DEMOLITION DEBRIS APPROVED BY THE ENGINEER SHALL BE PLACED 10 OR MORE FEET BELOW THE LINER.
7. CONTRACTOR SHALL STOCKPILE BOULDERS WITH GREATEST DIMENSIONS LARGER THAN 24 INCHES IN THE STOCKPILE LOCATION SHOWN ON SHEET C-301 OR AS APPROVED BY THE ENGINEER.
8. WHEN PLACING BOULDERS OR COBBLES DO NOT NEST THEM SUCH THAT VOIDS ARE CREATED. BOULDERS AND COBBLES SHALL BE SPREAD OUT UNIFORMLY SO SOIL FILLS AROUND THEM.
9. PLACEMENT OF OVERSIZED MATERIALS (12 - 24 INCHES SHALL ALLOW COMPACTION EQUIPMENT TO COMPACT AROUND THE SIDES WITHOUT BEING IN CONTACT WITH NEARBY OVERSIZE MATERIAL THAT PRECLUDES UNIFORM COMPACTION.
10. CONCRETE BROKEN INTO PIECES 12 TO 24 INCHES SHALL BE TREATED THE SAME AS OVERSIZE MATERIAL.
11. CONCRETE SLABS CAN BE INCORPORATED INTO FILL WITHOUT PROCESSING IF THEY ARE PLACED ON A LEVEL SURFACE (E.G., NOT DUMPED), SUCH THAT THEY ARE FIRMLY SEATED AND BACKFILLED WITH SAND AND GRAVEL. CONCRETE SLABS SHALL NOT BE STACKED NESTED OR OTHERWISE PLACED SUCH THAT VOIDS ARE CREATED.
12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY ALDRICH
HALEY & ALDRICH
505 W. RIVERSIDE AVE, SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
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Project No.:	202349-001
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Checked By:	KH
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1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

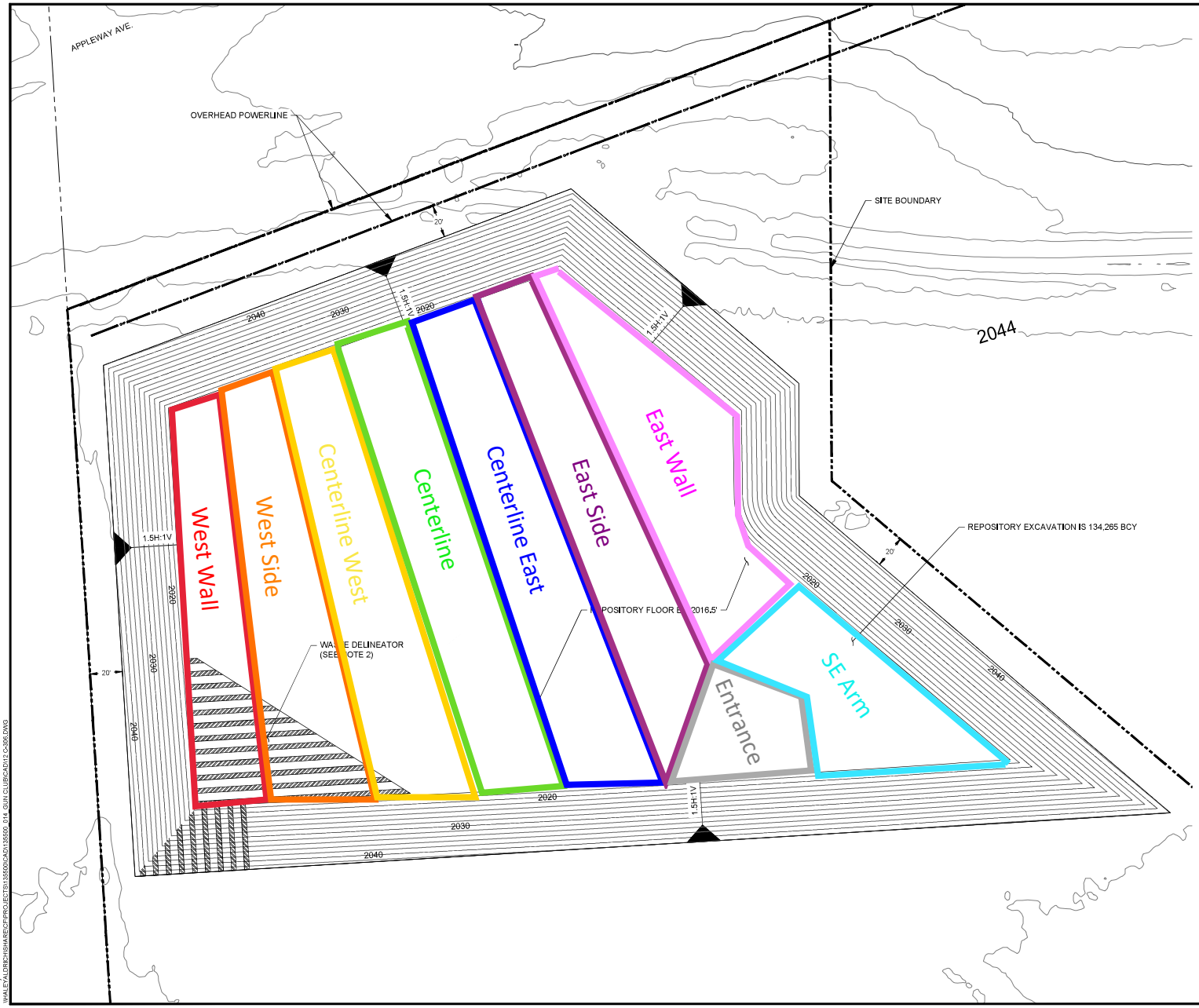
19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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NOTES

1. PRIOR TO EXCAVATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED.
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12. CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN WHICH INCLUDES BOTH THE REPOSITORY EXCAVATION AND BACKFILLING AND THE EXCAVATION OF IMPACTED SOILS.

0 30 60 90 120
SCALE IN FEET

HALEY & ALDRICH
505 W. RIVERSIDE AVE., SUITE 205
SPOKANE, WA 99201
TEL: 509.960.7447
WWW.HALEYALDRICH.COM

Project No.:	202349-001
Scale:	SHOWN
Date:	10/17/2023
Drawn By:	ZS/MO
Designed By:	BD
Checked By:	KH
Approved By:	JH/KH
Stamp:	

Rev.	Description	By	Date
1	ISSUED FOR ECOLOGY	BD	05/18/23
0	ISSUED FOR BID	BD	10/18/23

CVSD GUN CLUB
CLEANUP PROJECT

19615 E. SPRAGUE AVE. #9656
SPOKANE VALLEY,
WASHINGTON

REPOSITORY SUBGRADE EXCAVATION PLAN

C-306

Sheet: 11 of 21

Saved by: MOCONNELL Printed: 10/24/2023 10:00 AM Sheet: 11 C-306
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HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	59
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	07 February 2025
Client	Central Valley School District (CVSD)	**Page**	1 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	22-37°F

I. CLEANUP ACTIVITIES:

a. Contaminated Soil Excavation: Haley & Aldrich, Inc. (H&A) observed further excavation of the 7-foot cut running east to west across the Site, with the middle and west side of the cut being excavated to final grade of 7-feet below ground surface today. The soil excavated from this area was then taken directly to the repository as fill.

b. Compaction Testing: A total of fourteen Units were sampled today (Units 103, 92, 87, 91, 76, 75, 64, 62, 61, 60, 49, 52, 44, and 42), with each Unit being divided into four quadrants. A discrete sample was collected from the approximate center of each Unit, resulting in four samples per Unit and a total of 56 samples overall. The Chain of Custody (COC) for these samples is attached.

c. Backfill: H&A observed scarifying and compacting of Lift Nos. 18 and 19 and backfilling of Lift Nos. 19 and 20 in the repository. As different areas of the repository were verified as adequately compacted, Halme brought in fill to the repository for Lift Nos. 19 and 20 and deposited this soil in small stockpiles. By the end of the day, Lift No. 18 had been completely verified as adequately compacted and Lift No. 19 had been verified as adequately compacted on the west side, with these areas being covered by Lift No. 19 and Lift No. 20, respectively.

II. DUST MONITORING:

Dust Monitors (DMs) with telemetry capabilities were deployed in advance of excavation and backfill today and operated from 07:15 to 17:30. Samsara DM 47181 was positioned upwind of Site work and DM 49913 was positioned downwind of Site work. The relative humidity in the morning was approximately 70% and the wind was to the south-southwest.

Dust levels did not exceed the threshold of 2.5 milligrams per square meter (mg/m^3) total particulates nor the threshold of 0.025 mg/m^3 PM_{10} 120-minute rolling average at the downwind property boundary. Site observations indicated that dust was well-controlled. Dust monitoring data is attached.

III. COMPACTION TESTING:

The Troxler E-Gauge 4590 was the preferred method of compaction testing, with a density greater than or equal to 90% of the 134.0 pounds per square foot ($lbs./ft^3$) proctor indicating adequate compaction. However, in cases where the E-Gauge was temporarily out of service or a section of the repository that were visually well-compacted failed after multiple tests with the E-Gauge, H&A used a 1/2-inch steel T-probe to assess the firmness of the subgrade, with penetrations of 2 inches to 6 inches yielding adequate/passing compaction levels. Penetrations greater than 6 inches indicated inadequate/failing compaction levels, while penetrations less than 2 inches indicated frozen soil. Regardless of method, areas demonstrating non-compliance due to inadequate compaction or inadequate penetration were either recompacted or scarified and recompacted, respectively, based on H&A instruction.

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	59
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	07 February 2025
Client	Central Valley School District (CVSD)	**Page**	2 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	22-37°F

The following compaction tests were performed today with the T-Probe:

Table 1. T-Probe Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Test Result
18/1	East Side	08:00	2-6”	Pass
18/2	East Side	08:00	2-6”	Pass
18/3	East Side	08:00	2-6”	Pass
18/4	East Side	08:00	2-6”	Pass
18/5	East Wall	08:00	2-6”	Pass
18/6	East Wall	08:00	2-6”	Pass
18/7	East Wall	08:00	2-6”	Pass
18/8	East Wall	08:00	2-6”	Pass
18/9	East Wall	08:00	2-6”	Pass
18/10	East Wall	08:00	2-6”	Pass
19/11	Centerline West	14:15	2-6”	Pass
19/12	Centerline West	14:15	2-6”	Pass
19/13	Centerline West	14:15	2-6”	Pass
19/14	Centerline West	14:15	2-6”	Pass
19/15	Centerline West	14:15	2-6”	Pass
19/16	Centerline West	14:15	2-6”	Pass

The following compaction tests were performed today with the E-Gauge:

Table 2. E-Gauge Compaction Test Results

Test Number	Test Area	Test Time	Test Depth	Dry Density (pcf)	Wet Density (pcf)	% Moisture	% Proctor	Test Result
19/1	West Wall	10:00	10”	143.3	147.1	2.6	107.0	Pass
19/2	West Wall	10:15	8”	132.2	134.8	2.0	98.7	Pass
19/3	West Wall	10:30	10”	126.3	129.5	2.5	94.2	Pass
19/4	West Wall	10:45	10”	133.9	137.4	2.6	99.9	Pass
19/5	West Wall	11:00	8”	123.8	126.1	1.9	92.4	Pass
19/6	West Side	11:15	8”	123.2	125.9	2.2	91.9	Pass
19/7	West Side	11:30	10”	125.6	128.6	2.3	93.7	Pass
19/8	West Side	11:45	10”	123.1	125.9	2.3	91.9	Pass
19/9	West Side	12:00	8”	121.9	124.3	1.9	91.0	Pass
19/10	West Side	12:15	8”	126.7	128.8	1.6	94.6	Pass

HALEY ALDRICH

DAILY FIELD REPORT

Project	Spokane Gun Club Cleanup	**Report No.**	59
Location	19615 E. Sprague Ave., Spokane Valley, WA 99016	**Date**	07 February 2025
Client	Central Valley School District (CVSD)	**Page**	3 of 3
Contractor	Halme Construction, Inc. (Halme)	**File No.**	0202349-002
Weather	Partly Cloudy	**Temperature**	22-37°F

These tests yielded a total of 26 passing results across the sections of Lift Nos. 18 and 19 listed above. Because the east side of Lift 19 was not compacted nor tested today, Halme was instructed to not put any fill on this side of the repository until it had been scarified, recompacted, tested, and cleared.

Discussions:

Name	Topic
Halme; H&A	H&A spoke with David of Halme throughout the Lift No. 18 and Lift No. 19 compaction process, issuing guidance on which areas needed to be scarified and/or recompacted.

Field Representative(s)	Time on site	Report/Travel/Other	Total
Luke Peden	11.5 hours	1 hour	12.5 hours
Zackery Castillo da Silva	5.5 hours	0 hours	5.5 hours

Distribution:
CVSD; Attn: Jay Rowell
OAC Services, Inc.; Attn: Jeff Jurgensen

Attachments:
Attachment A – Photolog
Attachment B – Dust Monitoring Data
Attachment C – Chain of Custody Record
Attachment D – Confirmation Sampling Plan
Attachment E – Repository Subgrade Excavation Plan
Attachment F – Repository Subgrade Excavation Plan (Sections)



Haley & Aldrich, Inc.



Photo 01. Lift No. 18 compaction – east side looking south.



Photo 02. Maintenance on the compactor to fix back right wheel.

Site Photographs – 07 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A



Photo 03. Wheel compaction with haul trucks being performed while compactor is out-of-service (view looking north).

Site Photographs – 07 February 2025	
Spokane Gun Club Cleanup Spokane Valley, WA	
HALEY ALDRICH	Attachment A

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202346-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Upwind								
Modem 47181	2/7/2025 20:50	2/7/2025 21:00	0.006	0.006	0.006	0.006	0.006	0.005
Modem 47181	2/7/2025 20:40	2/7/2025 20:50	0.006	0.006	0.006	0.006	0.006	0.005
Modem 47181	2/7/2025 20:30	2/7/2025 20:40	0.006	0.006	0.006	0.006	0.006	0.005
Modem 47181	2/7/2025 20:20	2/7/2025 20:30	0.006	0.006	0.006	0.006	0.006	0.004
Modem 47181	2/7/2025 20:10	2/7/2025 20:20	0.006	0.006	0.006	0.006	0.006	0.004
Modem 47181	2/7/2025 20:00	2/7/2025 20:10	0.005	0.005	0.005	0.005	0.005	0.004
Modem 47181	2/7/2025 19:50	2/7/2025 20:00	0.005	0.005	0.005	0.005	0.005	0.003
Modem 47181	2/7/2025 19:40	2/7/2025 19:50	0.004	0.004	0.004	0.005	0.005	0.003
Modem 47181	2/7/2025 19:30	2/7/2025 19:40	0.004	0.004	0.004	0.004	0.004	0.003
Modem 47181	2/7/2025 19:20	2/7/2025 19:30	0.004	0.004	0.004	0.004	0.004	0.003
Modem 47181	2/7/2025 19:10	2/7/2025 19:20	0.004	0.004	0.004	0.004	0.004	0.003
Modem 47181	2/7/2025 19:00	2/7/2025 19:10	0.004	0.004	0.004	0.004	0.004	0.003
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Modem 47181	2/7/2025 18:20	2/7/2025 18:30	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/7/2025 18:10	2/7/2025 18:20	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/7/2025 18:00	2/7/2025 18:10	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/7/2025 17:50	2/7/2025 18:00	0.002	0.002	0.002	0.002	0.002	0.002
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Modem 47181	2/7/2025 17:20	2/7/2025 17:30	0.002	0.002	0.003	0.003	0.003	0.002
Modem 47181	2/7/2025 17:10	2/7/2025 17:20	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/7/2025 17:00	2/7/2025 17:10	0.002	0.002	0.002	0.002	0.002	0.002
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Modem 47181	2/7/2025 16:40	2/7/2025 16:50	0.002	0.002	0.002	0.002	0.000	0.002
Modem 47181	2/7/2025 16:30	2/7/2025 16:40	0.002	0.002	0.002	0.002	0.002	0.002
Modem 47181	2/7/2025 16:20	2/7/2025 16:30	0.001	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/7/2025 16:10	2/7/2025 16:20	0.001	0.001	0.001	0.002	0.002	0.003
Modem 47181	2/7/2025 16:00	2/7/2025 16:10	0.001	0.001	0.002	0.002	0.002	0.003
Modem 47181	2/7/2025 15:50	2/7/2025 16:00	0.002	0.002	0.002	0.003	0.003	0.003
Modem 47181	2/7/2025 15:40	2/7/2025 15:50	0.002	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/7/2025 15:30	2/7/2025 15:40	0.002	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/7/2025 15:20	2/7/2025 15:30	0.002	0.003	0.003	0.003	0.003	0.003
Modem 47181	2/7/2025 15:10	2/7/2025 15:20	0.002	0.002	0.002	0.002	0.002	0.003
Modem 47181	2/7/2025 15:00	2/7/2025 15:10	0.002	0.002	0.002	0.003	0.003	0.004
Modem 47181	2/7/2025 14:50	2/7/2025 15:00	0.002	0.002	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 14:40	2/7/2025 14:50	0.002	0.002	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 14:30	2/7/2025 14:40	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 14:20	2/7/2025 14:30	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 14:10	2/7/2025 14:20	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 14:00	2/7/2025 14:10	0.004	0.004	0.004	0.004	0.004	0.004
Modem 47181	2/7/2025 13:50	2/7/2025 14:00	0.006	0.006	0.006	0.006	0.006	0.004
Modem 47181	2/7/2025 13:40	2/7/2025 13:50	0.004	0.004	0.004	0.005	0.005	0.004
Modem 47181	2/7/2025 13:30	2/7/2025 13:40	0.003	0.003	0.003	0.004	0.004	0.004
Modem 47181	2/7/2025 13:20	2/7/2025 13:30	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 13:10	2/7/2025 13:20	0.002	0.003	0.003	0.003	0.003	0.004

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 47181	2/7/2025 13:00	2/7/2025 13:10	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 12:50	2/7/2025 13:00	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 12:40	2/7/2025 12:50	0.003	0.003	0.003	0.003	0.003	0.004
Modem 47181	2/7/2025 12:30	2/7/2025 12:40	0.004	0.004	0.004	0.004	0.004	0.005
Modem 47181	2/7/2025 12:20	2/7/2025 12:30	0.004	0.004	0.004	0.004	0.004	0.007
Modem 47181	2/7/2025 12:10	2/7/2025 12:20	0.004	0.004	0.004	0.004	0.004	0.008
Modem 47181	2/7/2025 12:00	2/7/2025 12:10	0.004	0.004	0.004	0.004	0.004	0.009
Modem 47181	2/7/2025 11:50	2/7/2025 12:00	0.004	0.004	0.004	0.004	0.004	
Modem 47181	2/7/2025 11:40	2/7/2025 11:50	0.003	0.003	0.003	0.004	0.004	
Modem 47181	2/7/2025 11:30	2/7/2025 11:40	0.004	0.004	0.004	0.004	0.004	
Modem 47181	2/7/2025 11:20	2/7/2025 11:30	0.004	0.004	0.005	0.005	0.005	
Modem 47181	2/7/2025 11:10	2/7/2025 11:20	0.004	0.004	0.004	0.004	0.004	
Modem 47181	2/7/2025 11:00	2/7/2025 11:10	0.004	0.004	0.004	0.004	0.004	
Modem 47181	2/7/2025 10:50	2/7/2025 11:00	0.004	0.004	0.004	0.004	0.004	
Modem 47181	2/7/2025 10:40	2/7/2025 10:50	0.003	0.003	0.003	0.004	0.004	
Modem 47181	2/7/2025 10:30	2/7/2025 10:40	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/7/2025 10:20	2/7/2025 10:30	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/7/2025 10:10	2/7/2025 10:20	0.021	0.021	0.021	0.021	0.021	
Modem 47181	2/7/2025 10:00	2/7/2025 10:10	0.021	0.021	0.021	0.021	0.021	
Downwind								
Modem 49913	2/7/2025 20:50	2/7/2025 21:00	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	2/7/2025 20:40	2/7/2025 20:50	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	2/7/2025 20:30	2/7/2025 20:40	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	2/7/2025 20:20	2/7/2025 20:30	0.004	0.004	0.004	0.004	0.004	0.003
Modem 49913	2/7/2025 20:10	2/7/2025 20:20	0.006	0.006	0.006	0.006	0.006	0.002
Modem 49913	2/7/2025 20:00	2/7/2025 20:10	0.005	0.005	0.005	0.005	0.005	0.002
Modem 49913	2/7/2025 19:50	2/7/2025 20:00	0.003	0.003	0.003	0.003	0.003	0.002
Modem 49913	2/7/2025 19:40	2/7/2025 19:50	0.003	0.003	0.003	0.003	0.003	0.001
Modem 49913	2/7/2025 19:30	2/7/2025 19:40	0.003	0.003	0.003	0.003	0.003	0.001
Modem 49913	2/7/2025 19:20	2/7/2025 19:30	0.002	0.002	0.002	0.002	0.002	0.001
Modem 49913	2/7/2025 19:10	2/7/2025 19:20	0.002	0.002	0.002	0.002	0.002	0.001
Modem 49913	2/7/2025 19:00	2/7/2025 19:10	0.002	0.002	0.003	0.003	0.003	0.001
Modem 49913	2/7/2025 18:50	2/7/2025 19:00	0.002	0.002	0.002	0.002	0.002	0.001
Modem 49913	2/7/2025 18:40	2/7/2025 18:50	0.001	0.001	0.001	0.001	0.001	0.000
Modem 49913	2/7/2025 18:30	2/7/2025 18:40	0.001	0.001	0.001	0.001	0.001	0.000
Modem 49913	2/7/2025 18:20	2/7/2025 18:30	0.001	0.001	0.001	0.001	0.001	0.000
Modem 49913	2/7/2025 18:10	2/7/2025 18:20	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	2/7/2025 18:00	2/7/2025 18:10	0.000	0.000	0.000	0.000	0.000	0.000
Modem 49913	2/7/2025 17:50	2/7/2025 18:00	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 17:40	2/7/2025 17:50	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 17:30	2/7/2025 17:40	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 17:20	2/7/2025 17:30	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 17:10	2/7/2025 17:20	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	2/7/2025 17:00	2/7/2025 17:10	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 16:50	2/7/2025 17:00	0.000	0.001	0.001	0.001	0.001	0.001
Modem 49913	2/7/2025 16:40	2/7/2025 16:50	0.001	0.001	0.001	0.001	0.001	0.001
Modem 49913	2/7/2025 16:30	2/7/2025 16:40	0.000	0.000	0.000	0.000	0.000	0.001
Modem 49913	2/7/2025 16:20	2/7/2025 16:30	0.000	0.000	0.000	0.000	0.000	0.002

ATTACHMENT B
DUST MONITORING DATA
CENTRAL VALLEY SCHOOL DISTRICT
SPOKANE VALLEY, WASHINGTON
FILE NO. 0202346-002

Asset Name	Start Time (Eastern)	End Time (Eastern)	DRX PM 1 (mg/m^3)	DRX PM 2.5 (mg/m^3)	DRX PM 4 (mg/m^3)	DRX PM 10 (mg/m^3)	DRX Mass Total (mg/m^3)	PM 10 120 min Avg. (mg/m^3)
Modem 49913	2/7/2025 16:10	2/7/2025 16:20	0.002	0.002	0.002	0.002	0.002	0.002
Modem 49913	2/7/2025 16:00	2/7/2025 16:10	0.000	0.000	0.000	0.001	0.001	0.002
Modem 49913	2/7/2025 15:50	2/7/2025 16:00	0.000	0.000	0.001	0.001	0.001	0.003
Modem 49913	2/7/2025 15:40	2/7/2025 15:50	0.001	0.001	0.001	0.001	0.001	0.003
Modem 49913	2/7/2025 15:30	2/7/2025 15:40	0.001	0.002	0.002	0.002	0.002	0.003
Modem 49913	2/7/2025 15:20	2/7/2025 15:30	0.001	0.001	0.001	0.001	0.001	0.003
Modem 49913	2/7/2025 15:10	2/7/2025 15:20	0.001	0.001	0.001	0.001	0.001	0.003
Modem 49913	2/7/2025 15:00	2/7/2025 15:10	0.002	0.002	0.002	0.002	0.002	0.006
Modem 49913	2/7/2025 14:50	2/7/2025 15:00	0.002	0.002	0.002	0.002	0.002	0.006
Modem 49913	2/7/2025 14:40	2/7/2025 14:50	0.002	0.002	0.002	0.002	0.002	0.006
Modem 49913	2/7/2025 14:30	2/7/2025 14:40	0.003	0.003	0.003	0.003	0.003	0.006
Modem 49913	2/7/2025 14:20	2/7/2025 14:30	0.002	0.002	0.002	0.002	0.002	0.008
Modem 49913	2/7/2025 14:10	2/7/2025 14:20	0.003	0.003	0.003	0.004	0.004	0.008
Modem 49913	2/7/2025 14:00	2/7/2025 14:10	0.006	0.006	0.007	0.007	0.007	0.008
Modem 49913	2/7/2025 13:50	2/7/2025 14:00	0.005	0.006	0.006	0.007	0.007	0.008
Modem 49913	2/7/2025 13:40	2/7/2025 13:50	0.003	0.003	0.003	0.003	0.003	0.008
Modem 49913	2/7/2025 13:30	2/7/2025 13:40	0.002	0.002	0.002	0.002	0.002	0.008
Modem 49913	2/7/2025 13:20	2/7/2025 13:30	0.002	0.002	0.002	0.002	0.002	0.008
Modem 49913	2/7/2025 13:10	2/7/2025 13:20	0.003	0.003	0.004	0.005	0.005	0.008
Modem 49913	2/7/2025 13:00	2/7/2025 13:10	0.014	0.015	0.020	0.034	0.034	0.008
Modem 49913	2/7/2025 12:50	2/7/2025 13:00	0.002	0.002	0.002	0.002	0.002	0.006
Modem 49913	2/7/2025 12:40	2/7/2025 12:50	0.003	0.003	0.003	0.004	0.004	0.006
Modem 49913	2/7/2025 12:30	2/7/2025 12:40	0.003	0.003	0.003	0.004	0.004	0.006
Modem 49913	2/7/2025 12:20	2/7/2025 12:30	0.012	0.013	0.017	0.030	0.030	0.006
Modem 49913	2/7/2025 12:10	2/7/2025 12:20	0.002	0.002	0.002	0.003	0.003	0.004
Modem 49913	2/7/2025 12:00	2/7/2025 12:10	0.003	0.003	0.003	0.005	0.005	0.005
Modem 49913	2/7/2025 11:50	2/7/2025 12:00	0.003	0.004	0.004	0.006	0.006	
Modem 49913	2/7/2025 11:40	2/7/2025 11:50	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/7/2025 11:30	2/7/2025 11:40	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/7/2025 11:20	2/7/2025 11:30	0.003	0.003	0.004	0.005	0.005	
Modem 49913	2/7/2025 11:10	2/7/2025 11:20	0.004	0.004	0.005	0.005	0.005	
Modem 49913	2/7/2025 11:00	2/7/2025 11:10	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/7/2025 10:50	2/7/2025 11:00	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/7/2025 10:40	2/7/2025 10:50	0.003	0.003	0.003	0.003	0.003	
Modem 49913	2/7/2025 10:30	2/7/2025 10:40	0.003	0.003	0.003	0.004	0.004	
Modem 49913	2/7/2025 10:20	2/7/2025 10:30	0.004	0.004	0.004	0.005	0.005	
Modem 49913	2/7/2025 10:10	2/7/2025 10:20	0.010	0.010	0.010	0.010	0.010	
Modem 49913	2/7/2025 10:00	2/7/2025 10:10	0.010	0.010	0.010	0.010	0.010	

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/10/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List							HOLD	Number of Containers
C_115_7_1	2/6/2025	14:00	7 ft	Soil	X	X	X								1
C_115_7_2	2/6/2025	14:05	7 ft	Soil	X	X	X								1
C_115_7_3	2/6/2025	14:10	7 ft	Soil	X	X	X							X	1
C_115_7_4	2/6/2025	14:15	7 ft	Soil	X	X	X							X	1
C_116_7_1	2/6/2025	15:25	7 ft	Soil	X	X	X								1
C_116_7_2	2/6/2025	15:30	7 ft	Soil	X	X	X								1
C_116_7_3	2/6/2025	15:35	7 ft	Soil	X	X	X								1
C_116_7_4	2/6/2025	15:40	7 ft	Soil	X	X	X								1
C_105_7_1	2/6/2025	15:45	7 ft	Soil	X	X	X								1
C_105_7_2	2/6/2025	15:50	7 ft	Soil	X	X	X								1

Comments(special instructions, precautions, additional method numbers, etc.)

Due 3/5/25

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.5, 2.9 corr 1Reole
0.4, 0.8 corr 1Reole
0.5, 0.9 corr 1Reole

Sampled and Relinquished by	Received by
Sign	Sign
Print Lorre Pelan	Print Macky Morris
Firm Haley & Aldrich	Firm EETSPO
Date 2/7/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign Breeyn Greer, PE	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	SOLID
VOA Vial	VOA Vial
Amber Glass	Amber Glass
Plastic Bottle	Clear Glass
Preservative	Preservative
Volume	Volume

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein
_____ This Chain of Custody Record (specify) _____includes _____does not include samples defined as Drinking Water Samples.
_____
_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as ap

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

HALEY ALDRICH

Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/10/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List	HOLD	Number of Containers
C_105_7_3	2/6/2025	15:55	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1
C_105_7_4	2/6/2025	16:00	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1
C_103_7_1	2/7/2025	13:00	7 ft	Soil	X	X	X		1
C_103_7_2	2/7/2025	13:05	7 ft	Soil	X	X	X		1
C_103_7_3	2/7/2025	13:10	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1
C_103_7_4	2/7/2025	13:15	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1
C_92_7_1	2/7/2025	13:35	7 ft	Soil	X	X	X		1
C_92_7_2	2/7/2025	13:40	7 ft	Soil	X	X	X		1
C_92_7_3	2/7/2025	13:45	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1
C_92_7_4	2/7/2025	13:50	7 ft	Soil	~~X~~	~~X~~	~~X~~	X	1

Analysis Requested

Comments(special instructions, precautions, additional method numbers, etc.)

Due 3/5/25

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.9 + 0.8 + 0.9 corr IR006

Sampled and Relinquished by

Sign
Print Luke Peden
Firm H&A
Date 2/10/25 Time 13:12

Received by

Sign
Print Macky Morris
Firm EFL Spo
Date 2/10/25 Time 1312

Relinquished by

Sign Breeyn Greer, PE
Print
Firm
Date Time

Received by

Sign
Print
Firm
Date Time

Relinquished by

Sign
Print
Firm
Date Time

Received by

Sign
Print
Firm
Date Time

LIQUID

	VOA Vial
	Amber Glass
	Plastic Bottle
	Preservative
	Volume

SOLID

	VOA Vial
	Amber Glass
	Clear Glass
	Preservative
	Volume

PRESERVATION KEY

A	Sample chilled		C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered		D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

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_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as ap

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

HALEY ALDRICH

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505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/12/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List									HOLD	Number of Containers
C_87_7_1	2/7/2025	14:10	7 ft	Soil	X	X	X										1
C_87_7_2	2/7/2025	14:15	7 ft	Soil	X	X	X										1
C_87_7_3	2/7/2025	14:20	7 ft	Soil	X	X	X										1
C_87_7_4	2/7/2025	14:25	7 ft	Soil	X	X	X										1
C_91_7_1	2/7/2025	14:40	7 ft	Soil	X	X	X										1
C_91_7_2	2/7/2025	14:45	7 ft	Soil	X	X	X										1
C_91_7_3	2/7/2025	14:50	7 ft	Soil	X	X	X									X	1
C_91_7_4	2/7/2025	14:55	7 ft	Soil	X	X	X									X	1
C_76_7_1	2/7/2025	15:05	7 ft	Soil	X	X	X										1
C_76_7_2	2/7/2025	15:10	7 ft	Soil	X	X	X										1

Analysis Requested

Comments(special instructions, precautions, additional method numbers, etc.)

Due 3/5/25

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.9 + 0.8 + 0.9 con 1PQL

Sampled and Relinquished by	Received by
Sign	Sign
Print Evan Pegg	Print Hayley Adams
Firm H&A	Firm EFSPO
Date 2/10/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign Breeyn Greer, PE	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

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_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

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Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

CHAIN OF CUSTODY RECORD

HALEY ALDRICH
Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513
Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO.	0202349-002	LABORATORY	Eurofins Spokane
PROJECT NAME	CVSD Gun Club	ADDRESS	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington
DELIVERY DATE	2/10/25		
TURNAROUND TIME	Standard		
PROJECT MANAGER	Breeyn Greer		

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List	HOLD	Number of Containers
C_76_7_3	2/7/2025	15:15	7 ft	Soil	X	X	X	X	1
C_76_7_4	2/7/2025	15:20	7 ft	Soil	X	X	X	X	1
C_75_7_1	2/7/2025	15:15	7 ft	Soil	X	X	X		1
C_75_7_2	2/7/2025	15:20	7 ft	Soil	X	X	X		1
C_75_7_3	2/7/2025	15:25	7 ft	Soil	X	X	X	X	1
C_75_7_4	2/7/2025	15:30	7 ft	Soil	X	X	X	X	1
C_64_7_1	2/7/2025	15:40	7 ft	Soil	X	X	X		1
C_64_7_2	2/7/2025	15:45	7 ft	Soil	X	X	X		1
C_64_7_3	2/7/2025	15:50	7 ft	Soil	X	X	X		1
C_64_7_4	2/7/2025	15:55	7 ft	Soil	X	X	X		1

Analysis Requested

Comments(special instructions, precautions, additional method numbers, etc.)

Due 3/5/25

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.9 + 0.8 + 0.9 confirmed

Sampled and Relinquished by

Sign
Print Luke Pyle
Firm H&A
Date 2/10/25 Time 1310

Received by

Sign
Print Macky Morris
Firm ELETSPO
Date 2/10/25 Time 1312

Relinquished by

Sign
Print Breeyn Greer PE
Firm
Date Time

Received by

Sign
Print
Firm
Date Time

Relinquished by

Sign
Print
Firm
Date Time

Received by

Sign
Print
Firm
Date Time

LIQUID

VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume

SOLID

VOA Vial	Amber Glass	Clear Glass	Preservative	Volume

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

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Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

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CHAIN OF CUSTODY RECORD

Phone (509) 960-7447
Fax (509) 960-7447

H&A FILE NO.	0202349-002	LABORATORY	Eurofins Spokane	DELIVERY DATE	2/10/25
PROJECT NAME	CVSD Gun Club	ADDRESS		TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List								HOLD	Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)
					Analysis Requested												Due 3/5/25
C_62_7_1	2/7/2025	16:10	7 ft	Soil	X	X	X									1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
C_62_7_2	2/7/2025	16:15	7 ft	Soil	X	X	X									1	
C_62_7_3	2/7/2025	16:20	7 ft	Soil	X	X	X								X	1	
C_62_7_4	2/7/2025	16:25	7 ft	Soil	X	X	X								X	1	
C_61_7_1	2/7/2025	15:55	7 ft	Soil	X	X	X									1	
C_61_7_2	2/7/2025	16:00	7 ft	Soil	X	X	X									1	
C_61_7_3	2/7/2025	16:05	7 ft	Soil	X	X	X								X	1	
C_61_7_4	2/7/2025	16:10	7 ft	Soil	X	X	X								X	1	
C_60_7_1	2/7/2025	15:35	7 ft	Soil	X	X	X									1	2.9 + 0.8 + 0.9 con 1Rock
C_60_7_2	2/7/2025	15:40	7 ft	Soil	X	X	X									1	

Sampled and Relinquished by	Received by
Sign	Sign
Print Kyle Pelton	Print Mackey Morris
Firm H&A	Firm ESSPO
Date 2/10/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign Breeyn Greer, PE	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	SOLID
VOA Vial	VOA Vial
Amber Glass	Amber Glass
Plastic Bottle	Clear Glass
Preservative	Preservative
Volume	Volume

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

Grab Samples via "The Orchard Method"

Samples collected in an "X" fashion: 1 3 4 2

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☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

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CHAIN OF CUSTODY RECORD

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H&A FILE NO.	0202349-002	LABORATORY	Eurofins Spokane
PROJECT NAME	CVSD Gun Club	ADDRESS	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington
DELIVERY DATE	2/12/25		
TURNAROUND TIME	Standard		
PROJECT MANAGER	Breeyn Greer		

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List							HOLD	Number of Containers
C_60_7_3	2/7/2025	15:45	7 ft	Soil	X	X	X								1
C_60_7_4	2/7/2025	15:50	7 ft	Soil	X	X	X								1
C_49_7_1	2/7/2025	16:40	7 ft	Soil	X	X	X								1
C_49_7_2	2/7/2025	16:45	7 ft	Soil	X	X	X								1
C_49_7_3	2/7/2025	16:50	7 ft	Soil	X	X	X								1
C_49_7_4	2/7/2025	16:55	7 ft	Soil	X	X	X								1
C_52_7_1	2/7/2025	16:15	7 ft	Soil	X	X	X								1
C_52_7_2	2/7/2025	16:20	7 ft	Soil	X	X	X								1
C_52_7_3	2/7/2025	16:25	7 ft	Soil	~~X~~	~~X~~	~~X~~							X	1
C_52_7_4	2/7/2025	16:30	7 ft	Soil	~~X~~	~~X~~	~~X~~							X	1

Analysis Requested

Comments(special instructions, precautions, additional method numbers, etc.)

Due 3/5/25

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

2.9 or 0.8 + 0.7 con (RSDL)

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Peden	Print Macky Morris
Firm HAF	Firm EETSPO
Date 2/12/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign	Sign
Print Breeyn Greer, PE	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	SOLID
VOA Vial	VOA Vial
Amber Glass	Amber Glass
Plastic Bottle	Clear Glass
Preservative	Preservative
Volume	Volume

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

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☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

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Spokane, WA 99201-0513

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Fax (509) 960-7447

H&A FILE NO. 0202349-002
PROJECT NAME CVSD Gun Club
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Spokane
ADDRESS
CONTACT Randee Arrington

DELIVERY DATE 2/10/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Depth	Type	Pb EPA 6020	As EPA 6020	cPAHs Project Specific List								HOLD	Number of Containers
C_44_7_1	2/7/2025	16:55	7 ft	Soil	X	X	X									1
C_44_7_2	2/7/2025	17:00	7 ft	Soil	X	X	X									1
C_44_7_3	2/7/2025	17:05	7 ft	Soil	X	X	X									1
C_44_7_4	2/7/2025	17:10	7 ft	Soil	X	X	X									1
C_42_7_1	2/7/2025	16:35	7 ft	Soil	X	X	X									1
C_42_7_2	2/7/2025	16:40	7 ft	Soil	X	X	X									1
C_42_7_3	2/7/2025	16:45	7 ft	Soil	X	X	X									1
C_42_7_4	2/7/2025	16:50	7 ft	Soil	X	X	X									1

Analysis Requested

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Due 3/5/25

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2.9 ± 0.8 ± 0.9 cor 1Pooled

Sampled and Relinquished by	Received by
Sign	Sign
Print Luke Parker	Print Mackay Moms
Firm H&A	Firm EET SPO
Date 2/8/25 Time 13:10	Date 2/10/25 Time 1312
Relinquished by	**Received by**
Sign	Sign
Print Breeyn Greer, PE	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

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☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2