

# Thomas Colligan

7700 20<sup>th</sup> Ave NE Seattle WA 98115

Tom Kirkman  
SunnyDell Shooting Grounds  
292 Dryke Road  
Sequim WA 98382

Dear Tom,

This letter documents the sampling of three groundwater wells conducted in May of 2024 as a component of the Remedial Action Work plan of the Sunnydell Shooting Grounds final cleanup plan. This letter including all attachments, should be forwarded onto Andy Smith at the Department of Ecology.

## Background

The Sunnydell Shooting Grounds underwent a Remedial Investigation and Feasibility Study (RI/FS) that was completed in 2012. Following this, a Remedial Action Work Plan was approved by Ecology that called for groundwater sampling of the existing three wells once every 5 years to ensure that the institutional controls that were implemented as part of the remedial action are still protective of groundwater quality. The wells were last sampled in 2018.

## Work Conducted

The three existing wells (MW-1, MW-2, and MW-5) were sampled on May 20<sup>th</sup> 2024. Wells MW-1 and MW-2 are located downgradient of the upper pond. Well MW-5 is located directly downgradient of the lower pond. The well monuments and protective casings were all observed to be in excellent shape. The wells were sampled using a peristaltic pump attached to virgin polyethylene tubing set to approximately one foot off the well bottom. Wells were sampled using low-flow techniques (i.e., purged until field parameters stabilized). Field sampling notes are included in the attachments. All samples were clear upon collection. The samples were not field filtered nor lab filtered.

## Results

Results are in the table below. As with all prior sampling, the results were all well less than the groundwater cleanup level of 15 µg/L.

Table 1- Results- TOTAL LEAD

Well	Location	Results (ug/kg)
MW-1	Upper Pond	0.634
MW-2	Upper Pond	ND (<0.3)
MW-5	Lower Pond	ND (<,0.3)

Attachments:

- 1) Lab Report
- 2) Field Sampling Notes

Yours Truly,

**Thomas H. Colligan**

LHG

**Sunnydell Shooting Range**

Tom Kirkman  
292 Dryke Rd  
Sequim, WA 98382

**RE: Sunnydell Shooting Range,  
Work Order Number: 2405348**

May 28, 2024

**Attention Tom Kirkman:**

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 5/20/2024 for the analyses presented in the following report.

***Total Metals by EPA 6020B***

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Please note, while the appearance of our logo and branding will update, our commitment to accuracy, speed, and customer service remain values celebrated and shared by Alliance Technical Group. Thank you for the opportunity to serve you.

Sincerely,



Brianna Barnes  
Project Manager

**CC:**  
Tom Colligan

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing  
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing  
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original





Date: 05/28/2024

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**CLIENT:** Sunnydell Shooting Range  
**Project:** Sunnydell Shooting Range  
**Work Order:** 2405348

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## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2405348-001	MW-1	05/20/2024 12:11 PM	05/20/2024 4:24 PM
2405348-002	MW-2	05/20/2024 11:40 AM	05/20/2024 4:24 PM
2405348-003	MW-5	05/20/2024 10:47 AM	05/20/2024 4:24 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

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Original

**CLIENT:** Sunnydell Shooting Range

**Project:** Sunnydell Shooting Range

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

**CLIENT:** Sunnydell Shooting Range  
**Project:** Sunnydell Shooting Range

**Lab ID:** 2405348-001      **Collection Date:** 5/20/2024 12:11:00 PM  
**Client Sample ID:** MW-1      **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Total Metals by EPA 6020B</b>				Batch ID: 44045		Analyst: ME
Lead	0.634	0.300	B	µg/L	1	5/28/2024 4:17:00 PM

**Lab ID:** 2405348-002      **Collection Date:** 5/20/2024 11:40:00 AM  
**Client Sample ID:** MW-2      **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Total Metals by EPA 6020B</b>				Batch ID: 44045		Analyst: ME
Lead	ND	0.300		µg/L	1	5/28/2024 4:36:00 PM

**Lab ID:** 2405348-003      **Collection Date:** 5/20/2024 10:47:00 AM  
**Client Sample ID:** MW-5      **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Total Metals by EPA 6020B</b>				Batch ID: 44045		Analyst: ME
Lead	ND	0.300		µg/L	1	5/28/2024 4:39:00 PM



Date: 5/28/2024

**QC SUMMARY REPORT**  
**Total Metals by EPA 6020B**

**Work Order:** 2405348  
**CLIENT:** Sunnydeell Shooting Range  
**Project:** Sunnydeell Shooting Range

Sample ID: <b>MB-44045</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2024</b>	RunNo: <b>92026</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>44045</b>		Analysis Date: <b>5/28/2024</b>	SeqNo: <b>1920644</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.353	0.300									

Sample ID: <b>LCS-44045</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2024</b>	RunNo: <b>92026</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>44045</b>		Analysis Date: <b>5/28/2024</b>	SeqNo: <b>1920645</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.5	0.300	50.00	0	101	80	120				

Sample ID: <b>2405348-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2024</b>	RunNo: <b>92026</b>							
Client ID: <b>MW-1</b>	Batch ID: <b>44045</b>		Analysis Date: <b>5/28/2024</b>	SeqNo: <b>1920647</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.658	0.300						0.6340	3.72	20	B

Sample ID: <b>2405348-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2024</b>	RunNo: <b>92026</b>							
Client ID: <b>MW-1</b>	Batch ID: <b>44045</b>		Analysis Date: <b>5/28/2024</b>	SeqNo: <b>1920649</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.1	0.300	50.00	0.6340	101	75	125				

Sample ID: <b>2405348-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2024</b>	RunNo: <b>92026</b>							
Client ID: <b>MW-1</b>	Batch ID: <b>44045</b>		Analysis Date: <b>5/28/2024</b>	SeqNo: <b>1920650</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.4	0.300	50.00	0.6340	97.5	75	125	51.15	3.47	20	



Client Name: SUNNYD	Work Order Number: 2405348
Logged by: Morgan Wilson	Date Received: 5/20/2024 4:24:00 PM

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

**Log In**

3. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Present
4. Was an attempt made to cool the samples?      Yes       No       NA
5. Were all items received at a temperature of >2°C to 6°C \*      Unknown prior to receipt.      Yes       No       NA
6. Sample(s) in proper container(s)?      Yes       No
7. Sufficient sample volume for indicated test(s)?      Yes       No
8. Are samples properly preserved?      Yes       No
9. Was preservative added to bottles?      Yes       No       NA
- HNO3
10. Is there headspace in the VOA vials?      Yes       No       NA
11. Did all samples containers arrive in good condition(unbroken)?      Yes       No
12. Does paperwork match bottle labels?      Yes       No
13. Are matrices correctly identified on Chain of Custody?      Yes       No
14. Is it clear what analyses were requested?      Yes       No
15. Were all hold times (except field parameters, pH e.g.) able to be met?      Yes       No

**Special Handling (if applicable)**

16. Was client notified of all discrepancies with this order?      Yes       No       NA

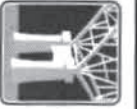
Person Notified:	<input type="text" value="Tom Colliqan"/>	Date:	<input type="text" value="5/21/2024"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Total vs Dissolved from bottle Orde"/>		
Client Instructions:	<input type="text" value="Total, 6020 okay"/>		

17. Additional remarks:

**Item Information**

Item #	Temp °C
Sample	23.1

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



**Fremont**  
An Alliance Technical Group Company  
**Analytical**

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790

**Chain of Custody Record & Laboratory Services Agreement**

Date: 5-20-24 Page: 1 of: 1

Project Name: Sunnydell Shooting Range

Laboratory Project No (Internal): 2405348

Client: Sunnydell Shooting Range

Collected by: Thomas Colligan

Special Remarks: None - Invoice to FRKIRKMAN@HOTMAIL.COM

Address: Dryke Road

City, State, Zip: Sequim WA 98382

Location: Sequim

Telephone: 415-922-7450

Report To (PM): Tom Colligan

Disposal: Samples will be disposed in 30 days unless otherwise requested.  
 Retain volume (specify above)  Return to client

Email(s): frkirkman@hotmail.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DYO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (Cl)**	EDB (801)	Comments
1 MW-1	5-20	12:11	W	1									Pb				Technical Question to Tom Colligan 206 276 5527
2 MW-2	5-20	11:40	W	1									Pb				
3 MW-5	5:20	10:47	W	1									Pb				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water  
 Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn  
 Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_

Turn-around Time:  
 Standard  Next Day  Same Day (specify) \_\_\_\_\_  
 3 Day  2 Day

SUNNYDELL GROUNDWATER SAMPLING FIELD NOTE 1/2

BY: T. COLLINA

5-20-24

10:40

Sample notes Sunnydell Well MW-5

N. Side of Lower Pond - 3/4" PVC Well

Sampled w Peristaltic Pump Begin

Well Depth - 6' 6" FROM Top of 3/4" casing

Purge readings - 9.8°C

Use H2O - Thor YSI meter  
Pre calibrated by  
Field Env. Instruments -  
see provided Calibration  
Sheet -

~~80.0~~ D.O.

9.6 mg/L D.O.

0.017 COND.

~50 ORP

6.94 pH

10:45 -

9.6° FINAL Temp

6.9 pH

10:58

Sample Collected - Clear

11:38

MW-2 Sample

11:42

Purge Parameters

Temp 9.9°  
D.O. = 3.89

9.8°

Cond = 0.27  
pH = 6.71

11:42

collect water - clear

-43.6°



1/12/72

12:05

Sample MW-1 - Well close to Upper Pond -

Start Hill Records - Temp 10.8°C

DV = 0.53 m/s

0.14  $\frac{m/s}{cm}$

-31 = 0.00

ph = 6.5'

12:12

Collect sample - MW-2

Temp = 10.8°

ph = 6.51

PARAM) STABLE AFTER 5 min purge

1:30

Left site FOR PRESENT ANALYSIS



# FIELD ENVIRONMENTAL INSTRUMENTS, INC.

www.fieldenvironmental.com

301 Brushton Ave  
Suite A  
Pittsburgh, PA 15221  
Toll Free (800) 393-4009  
Local (412) 436-2600  
Fax (412) 436-2616

## YSI Pro Plus Calibration Certificate

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 7 @ 25 <sup>C</sup>	8306447	7/11/2025	7.04	7.00	(6.86 - 7.14)
			pH mV value		-6.9
PH 4 @ 25 <sup>C</sup>	44030046	3/20/2026	4.03	4.00	(3.92 - 4.08)
			pH mV value		165.9
PH 10 @ 25 <sup>C</sup>	8307297	8/2/2025	10.05	10.00	(9.8 - 10.20)
			pH mV value		-179.5
Cal Standard Conductivity	8403134	3/30/2026	1.338	1.409	(1.338 to 1.479)
			Cell Constant		4.7

Check Standard	Temp °C	Reading	Acceptable Range
ORP	21.8	220.0	(+/- 20mV from the solution mv value)

ORP Offset  (0 +/- 100mV)

Dissolved Oxygen	% Saturation		mg/L	
		100.0		8.86
Barometer	Sensor Value		Acceptable Range	
<input type="text" value="760.0"/>	<input type="text" value="4.7"/>		(4.31 - 8.0)	

Model

S/N

Barcode

Order #

New DO Membrane

Yes  No

Black  Blue  Yellow

Calibrated By

Date of Calibration

\*Solutions provided by Reagents (800-732-8484)

Revision 2, 4/4/24

All calibrations performed by FEI conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.

All calibration solutions used are traceable to NIST. Additional documentation is available upon request.