

Environmental & Geotechnical Solutions

2020 Maltby Road, Suite 7-197 Bothell, Washington 98021 Phone: 206.979.8282

October 21, 2021

Ms. Evonne Reese Alaska Department of Environmental Conservation 610 University Ave. Fairbanks, AK 99709-3643

Re: AT&T Fairbanks Warehouse Site 2021 Groundwater Monitoring Report ADEC File No. 100.38.170

Dear Ms. Reese:

This letter report summarizes the results of groundwater monitoring performed at the AT&T Fairbanks Warehouse Site located at 704-30th Avenue in Fairbanks, Alaska. Monitoring well MW-7 was sampled on October 4, 2021. A field duplicate sample was also collected. Samples were submitted for laboratory analysis of diesel-range organics (DRO). The activities and results of the sampling are described below.

This work was performed, and this document prepared by ALTA Geosciences on behalf of Avangrid Renewables Holdings, Inc., which is conducting investigation and remediation at this site.

The depth to water and the total depth of the well were first measured and the well volume was calculated. The depth of water was measured as 7.27 feet below ground surface, approximately one foot deeper than in 2019. The well was sampled using a submersible centrifugal pump. Field parameters were monitored during purging at five-minute intervals and included depth to water, temperature, pH, and conductivity. Purging was continued until monitored parameters stabilized within allowable limits as shown on the attached *Groundwater Sampling Field Log*.

The parent sample (FBKS-MW-01) and a duplicate (identified as FBKS-Dup-1) were each collected and placed in laboratory supplied 250-ml amber bottles preserved with hydrochloric acid for DRO analysis. The samples were delivered immediately to the SGS facility in Fairbanks. Note that the sample was incorrectly identified on the chain of custody form and sample labels as coming from MW-01, rather than MW-07. MW-01 was decommissioned many years ago and discussions with the sampling technician indicated that this was a labelling error.



2021 Groundwater Monitoring Report – AT&T Fairbanks Warehouse Site Ms. Evonne Reese October 21, 2021 Page 2

SGS reported the analytical results under lab report 1216667. The sample contained 0.959 mg/L DRO and the duplicate sample contained 0.797 mg/L DRO, both of which are significantly below the DRO groundwater cleanup criteria of 1.5 mg/L (see Table 1).

The quality assurance review included, where appropriate, evaluation of holding times, blanks, matrix spike (MS) and laboratory control sample (LCS) recoveries, duplicate sample relative percent differences (RPDs), reporting limits, and overall assessment of data in the sample. No significant QA anomalies were noted. All data are considered valid and useable for the intended purpose.

The laboratory report and the ADEC *Laboratory Data Review Checklist* are attached, as are the field sampling field notes. The historical analytical data from well MW-7 are summarized in the attached Table 1.

As described in the determination of *"Cleanup Complete-Institutional Controls"* from ADEC dated June 24, 2010, groundwater monitoring is to be continued until two successive monitoring events meet the cleanup criteria. During the 2019 groundwater monitoring event, the sample contained 1.00 mg/L DRO and the duplicate sample contained 0.940 mg/L DRO. Therefore, further groundwater monitoring will not be performed at this site. All other institutional controls will remain in effect.

With the submittal of this groundwater monitoring report, we are also proposing to decommission well MW-07 in accordance with ADEC criteria as described in *"Monitoring Well Guidance"* (ADEC, September 2013).

Please do not hesitate to contact me if you have questions concerning this project.

Sincerely,

ALTA Geosciences Inc.

Alex Tula, L.G. Principal Consultant

Attachments:

Table 1 - Summary of analytical data, Fairbanks Warehouse Site Groundwater Sampling Field Log SGS Lab Report 1216667 ADEC Laboratory Data Review Checklist

CC: Ms. Kristy Abel; Avangrid Renewables Holdings, Inc. Mr. Greg Rainwater; AT&T



2021 Groundwater Monitoring Report – AT&T Fairbanks Warehouse Site Ms. Evonne Reese October 21, 2021

Table 1 - Summary of groundwater analytical data, Monitoring Well MW-7 (µg/L exception)	pt
as noted)	

Duplicate samples	Lab ID	Sample Date	DRO (mg/L)	Benzene	Toluene	Ethylbenzene	Xylenes
	ADEC criteria		1.5	4.6	1100	15	190
	AQH0078-04	15-Aug-07	1.23				
	10826280-01	23-Jun-08	5.06 J				
	10939070-08	2-Jul-09	2.01				
	11068260-01	8-Oct-10	2.31				
	11185900-01	29-Jul-11	1.52 J	1.92 J	2.00 U	7.91 J	12.44 J
*	11185900-02	29-Jul-11	2.13 J	2.83 J	2.00 U	12.4 J	19.26 J
	1138549-01	4-Oct-13	1.41 J	4.65 J	1.56	25.8	27.65
*	1138549-04	4-Oct-13	1.96 J	4.42	4.42	24.2	24.94
	1158283-01	15-Jul-15	3.21				
*	1158283-02	15-Jul-15	3.29	-	-	-	
	1178068-01	14-Jul-17	2.83				
*	1178068-02	14-Jul-17	2.71				
	1199743-01	8-Sep-19	1.00				
*	1199743-02	8-Sep-19	0.94				
	1216667-01	4-Oct-21	0.959				
*	1216667-02	4-Oct-21	0.797				

* Duplicate sample of MW-7.

-- Not analyzed.

J Estimated concentration.

U The analyte was not detected at the reporting limit shown

"BOLD" indicates result exceeds ADEC criteria

	A GEOSCII	NCES, Inc				LC		GROUNDWATE
Project/Phase						WELL NO .:		(1) Opposition and the second s Second second se Second second s Second second seco
Fairbank	-5 -	TOK JY					MW-C	> /
Date: 0/0	1/21		By: JT			WELL DIAM	: 2in	
Analyses:		DRO				TOTAL DEP	14.1	15
Volume purge	ed: 49nl	lony				QA SAMPLE	S: Dup-1	0 1300
Time	DTW (ft)	ORP (mv)	Sp Cond (uS/cm)	рН	Temp. deg. C	Turbidity (ntu)	Purge Rate (gph)	Comments
Stabilization goals>	100	+/- 3%	+/- 3%	+/- 0.1	+/- 1	<5	8 gph	PO
1340	7.27	START	1				B	
1345	231	185.0	0.691	6.13	4.85	966	8	2.27
1350	731	179	0.674	6.31 5.00	5.80	157	8	1.9>
1355	7.33	171	0.646		5.90	42.2	00	1.08
1400	7.33	163	6.661	6.47	5.86	17.4	છ	0.69
1405	7.33	158	0.659	6.54	5.93	9.43	00	0.51
1410	7.33	160	0.660	6.57	5.98	4.98	8	0.43
1415	Collectro) Sami?	1e					
			-					
	*							
1.	1.							

Flow meter conversions:

1.0 L/min = 16 gph 0.5 L/min = 8 gph 0.2 L/min = 3.2 gph Optional parameters: TOTAL DEPTH, ORP, VOLUME PURGED (if flow rate monitored)

Other comments:



Laboratory Report of Analysis

To: ALTA Geosciences, Inc. 2020 Maltby Rd Ste 7 #197 Bothell, WA 98021

Report Number: **1216667**

Client Project: Fairbanks AT&T Warehouse

Dear Alex Tula,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Chuck at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Chuck Homestead Project Manager Charles.Homestead@sgs.com Date

Print Date: 10/15/2021 3:25:48PM

SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com Results via Engage



Case Narrative

SGS Client: ALTA Geosciences, Inc. SGS Project: 1216667 Project Name/Site: Fairbanks AT&T Warehouse Project Contact: Alex Tula

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 10/15/2021 3:25:49PM

SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group



Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.
Sampla summarias which i	ndude a result for "Total Solida" have already been adjusted for moisture content
	nclude a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are	

Print Date: 10/15/2021 3:25:52PM

Note:

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com



Sample Summary									
<u>Client Sample ID</u> FBKS-MW-01 FBKS-Dup-1	<u>Lab Sample ID</u> 1216667001 1216667002	<u>Collected</u> 10/04/2021 10/04/2021	<u>Received</u> 10/07/2021 10/07/2021	<u>Matrix</u> Water (Surface, Eff., Ground) Water (Surface, Eff., Ground)					
<u>Method</u> AK102	<u>Method Des</u> DRO Low V								

Print Date: 10/15/2021 3:25:53PM



Detectable Results Summary

Client Sample ID: FBKS-MW-01 Lab Sample ID: 1216667001 Semivolatile Organic Fuels	<u>Parameter</u> Diesel Range Organics	<u>Result</u> 0.959	<u>Units</u> mg/L
Client Sample ID: FBKS-Dup-1 Lab Sample ID: 1216667002	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Semivolatile Organic Fuels	Diesel Range Organics	0.797	mg/L

Print Date: 10/15/2021 3:25:55PM

SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com



Results of FBKS-MW-01 Client Sample ID: FBKS-MW-01 Client Project ID: Fairbanks AT&T Warehouse Lab Sample ID: 1216667001 Lab Project ID: 1216667		R M S	ollection Da eceived Da latrix: Wate olids (%): ocation:	te: 10/07/2	21 08:50		
Results by Semivolatile Organic Fuels	3		_				
<u>Parameter</u> Diesel Range Organics	<u>Result Qual</u> 0.959	<u>LOQ/CL</u> 0.625	<u>DL</u> 0.208	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 10/11/21 18:59
Surrogates 5a Androstane (surr)	88.9	50-150		%	1		10/11/21 18:59
Batch Information							
Analytical Batch: XFC16111 Analytical Method: AK102 Analyst: IVM Analytical Date/Time: 10/11/21 18:59 Container ID: 1216667001-A			Prep Batch: Prep Method Prep Date/Ti Prep Initial W Prep Extract	: SW3520C me: 10/08/2 /t./Vol.: 240	21 15:46		

Print Date: 10/15/2021 3:25:57PM

-Results of FBKS-Dup-1							
Client Sample ID: FBKS-Dup-1 Client Project ID: Fairbanks AT&T Wa Lab Sample ID: 1216667002 Lab Project ID: 1216667	arehouse	R M S	ollection Da eceived Da latrix: Wate olids (%): ocation:	te: 10/07/2			
Results by Semivolatile Organic Fuels	S		<u> </u>				
<u>Parameter</u> Diesel Range Organics	<u>Result Qual</u> 0.797	<u>LOQ/CL</u> 0.612	<u>DL</u> 0.204	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 10/11/21 19:09
Surrogates							
5a Androstane (surr)	72.5	50-150		%	1		10/11/21 19:09
Batch Information							
Analytical Batch: XFC16111 Analytical Method: AK102 Analyst: IVM Analytical Date/Time: 10/11/21 19:09			Prep Batch: Prep Method Prep Date/Ti Prep Initial V	l: SW3520C me: 10/08/2	21 15:46		

Print Date: 10/15/2021 3:25:57PM

SGS

Method Blank Blank ID: MB for HBN 1826 Blank Lab ID: 1640995 QC for Samples: 1216667001, 1216667002 Results by AK102	759 [XXX/45699]	Matrix	: Water (Surfa	ace, Eff., Ground)	
<u>Parameter</u> Diesel Range Organics	<u>Results</u> 0.300U	<u>LOQ/CL</u> 0.600	<u>DL</u> 0.200	<u>Units</u> mg/L	
Surrogates 5a Androstane (surr)	76.1	60-120		%	
Batch Information Analytical Batch: XFC1611 Analytical Method: AK102 Instrument: Agilent 7890B Analyst: IVM Analytical Date/Time: 10/1	R	Prep Met Prep Dat Prep Initi	ch: XXX45699 thod: SW3520 e/Time: 10/8/2 al Wt./Vol.: 25 ract Vol: 1 mL	C 2021 3:46:28PM	

Print Date: 10/15/2021 3:25:59PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1216667 [XXX45699] Blank Spike Lab ID: 1640996 Date Analyzed: 10/11/2021 17:01 Spike Duplicate ID: LCSD for HBN 1216667 [XXX45699] Spike Duplicate Lab ID: 1640997 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1216667001, 1216667002

Results by AK102									
		Blank Spike	e (mg/L)	S	Spike Duplic	cate (mg/L)			
<u>Parameter</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
Diesel Range Organics	20	19.2	96	20	18.8	94	(75-125)	2.00	(< 20)
Surrogates									
5a Androstane (surr)	0.4		101	0.4		100	(60-120)	1.00	
Batch Information									
Analytical Batch: XFC16111				Pre	p Batch: X	XX45699			
Analytical Method: AK102				Pre	p Method:	SW3520C			
Instrument: Agilent 7890B R						e: 10/08/202			
Analyst: IVM						0	Extract Vo		
				Dup	be mit Wt./V	/01 20 mg/L	Extract Vol	. ∟	

Print Date: 10/15/2021 3:26:01PM

SGS North America Inc. CHAIN OF CUSTODY RECORD

*The following analyses require specific method and/or compound list: REMARKS/LOC ID BTEX, Metals, PFAS Data Deliverable Requirements: Chain of Custody Seal/(Circle) NTAGE BROKEN ABSENT of **Commerical Delivery** Page NOTE: www.us.sgs.com Requested Turnaround Time and/or Special Instructions: Instructions: Sections 1 - 5 must be filled out. **Delivery Method: Hand Delivery** Omissions may delay the onset of analysis. 1216667 DOD Project? Yes No Preservative Temp Blank °C or Ambient [] Analysis* Section 4 Cooler ID: '3₄ N N ояа Comp Grab Grab MI (Multi-incre-mental) Grab Received For Laboratory By Section 3 N N o 0 z e o Received By: **Received By:** Received By: MATRIX **WATRIX** CODE かんろう water atula@altageo.com 0;50 TIME HH:MM 1300 1130 907-252-8366 65 1415 p# 338622 Cit lme Time Time Time 12/2/01 10/6/21 wm/dd/yy 10/4/21 10/4/21 DATE PHONE #: QUOTE #: Date Date Date Date Ś Profile #: PROJECT/ PWSID/ E-MAIL: PERMIT#: P.O.#: SAMPLE IDENTIFICATION Alta Geosciences, Inc. Fairbanks AT&T warehouse Alta Geosciences, Inc. Jeremy Yancey FBKS-MW-01 FBKS-Dup-1 Alex Tula Refinquished By: (2) Relinquished By: (1) Relinquished By: (3) Relinquished By: (4) **REPORTS TO:** RESERVED for lab use INVOICE TO: <u>2</u>AD CONTACT PROJECT (DAI) **CLIENT:** NAME: C noitos Section 1 Section 2

F083-Blank_COC_20181228

http://www.sgs.com/terms-and-conditions

e-Sample Receipt Form FBK

Review Cr	itaria	tion (Yes,	No N/A	Even	otions No	ted bel		
	dy / Temperature Requireme			Exemption perm				ers
	Custody Seals intact? Note # & location				intou ii ouri	ipior nana	ournoo/doin	
	COC accompanied samples						·····	
DOD: Were samples re	eceived in COC corresponding coolers							
	**Exemption permitted if chilled		11	ago, or for samp	les where c	hilling is no	ot required	
Temperature blan	لاــــــلا k compliant* (i.e., 0-6 °C after CF)			1	@	1. S.	Therm. ID:	D62
			Cooler ID:		@	°C	Therm. ID:	
If samples received without a temperatur			Cooler ID:		@	°C	Therm. ID:	
cumented instead & "COOLER TEMP" will be noted if neith	pe noted to the right. "ambient" or "chilled" wi her is available.		Cooler ID:		@	°C	Therm. ID:	
*lf >6°C, were	samples collected <8 hours ago?	L						
	, were sample containers ice free?							
	ved at non-compliant temperature							
Use form	n FS-0029 if more space is needed							
	tation / Sample Condition Require			form F-083 "Sa	mple Guide	for speci	fic holding ti	mes.
Do samples match COC** (i.e.,	sample IDs,dates/times collected)			form F-083 "Sa	mple Guide	for speci	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr,	sample IDs,dates/times collected) , record details & login per COC.	? N/C		form F-083 "Sa	mple Guide	" for speci	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d	sample IDs,dates/times collected) , record details & login per COC. iffers from COC, SGS will default to COC info	PN/C		form F-083 "Sa	mple Guide	for speci	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d	sample IDs,dates/times collected) , record details & login per COC.	PN/C		form F-083 "Sa	mple Guide	" for speci	fic holding ti	mes
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i.	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse	? N/C ormatior ? Yes S		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i.	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage)	? N/C prmatior ? Yes S		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals	<pre>? N/C prmatior ? Yes S *) Yes</pre>		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals DAs, LL-Hg) in cooler with samples	? N/C prmatior ? Yes S) Yes ? N/A		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals PAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm)	? N/C prmatior ? Yes S) Yes ? N/A ? N/A		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o Were all soil VOA	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals DAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm) As field extracted with MeOH+BFB	? N/C prmatior ? Yes S) Yes ? N/A ? N/A		form F-083 "Sa	mple Guide	" for specif	fic holding ti	mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, "Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o Were all soil VO/ For Rush/Short Hold Tim	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals OAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm) As field extracted with MeOH+BFB e, was RUSH/Short HT email sent	<pre>? N/C prmatior ? Yes s ? Yes ? N/A ? N/A ? N/A</pre>						mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, *Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o Were all soil VO/ For Rush/Short Hold Tim	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals OAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm) As field extracted with MeOH+BFB e, was RUSH/Short HT email sent 'No", answer above indicates non-com	<pre>? N/C prmation ? Yes s ? Yes ? N/A ? N/A ? N/A poliance</pre>	with standard					mes
Do samples match COC ** (i.e., **Note: If times differ <1hr, "Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o Were all soil VO/ For Rush/Short Hold Tim	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals OAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm) As field extracted with MeOH+BFB e, was RUSH/Short HT email sent	<pre>? N/C prmation ? Yes s ? Yes ? N/A ? N/A ? N/A poliance</pre>	with standard					mes.
Do samples match COC ** (i.e., **Note: If times differ <1hr, **Note: If sample information on containers d Were samples in good cor Were analytical requests clear? (i. with multiple op Were Trip Blanks (i.e., VC Were all water VOA vials free o Were all soil VO/ For Rush/Short Hold Tim	sample IDs,dates/times collected) , record details & login per COC. liffers from COC, SGS will default to COC info ndition (no leaks/cracks/breakage) e., method is specified for analyse tion for analysis (Ex: BTEX, Metals OAs, LL-Hg) in cooler with samples f headspace (i.e., bubbles ≤ 6mm) As field extracted with MeOH+BFB e, was RUSH/Short HT email sent 'No", answer above indicates non-com	<pre>? N/C prmation ? Yes s ? Yes ? N/A ? N/A ? N/A poliance</pre>	with standard	procedures and				mes.

000	e-Sam <u>p</u>	le Receipt	eipt Form						
SGS	SGS Workorder #:	1	216	667		1216	667		
Re	eview Criteria	Condition (Yes	, No, N/A	Exc	eptions	Noted bel	ow		
Chain c	of Custody / Temperature Requir	rements		N/A Exemption pe	-			ivers.	
	Were Custody Seals intact? Note # &	location Yes	1F ,1B						
	COC accompanied sa	mples? Yes							
DOD: Were	samples received in COC corresponding c	coolers? N/A							
	N/A **Exemption permitted if	chilled & colle	ected <8 ho	ours ago, or for san	nples whe	re chilling is n	ot required		
Tempera	ture blank compliant* (i.e., 0-6 °C afte	er CF)? <mark>Yes</mark>	Cooler I	D: 1	@	5.2 °C	Therm. ID	: D52	
			Cooler ID	D:	@	°C	Therm. ID	1	
	a temperature blank, the "cooler temperature" will TEMP" will be noted to the right. "ambient" or "ch		Cooler ID	<mark>D:</mark>	@		Therm. ID		
	noted if neither is available.		Cooler ID	<mark>D:</mark>	@		Therm. ID		
			Cooler I	D:	@	°C	Therm. ID	:	
*/f >(6°C, were samples collected <8 hours	ago? N/A	l						
	If <0°C, were sample containers ice	e free? N/A	1						
Note: Identify contair	ners received at non-compliant temper Use form FS-0029 if more space is no								
Holding Time / I	Documentation / Sample Condition Re	auirements	Note: Refe	ar to form E-083 "Same	ale Guide" f		a times		
	Were samples received within holding						g unico.		
Do samples match CC	DC ** (i.e.,sample IDs,dates/times colle	ected)? Yes							
**Note: If times di	ffer <1hr, record details & login per Co	OC.							
***Note: If sample information on o	containers differs from COC, SGS will default to C	COC information	ו						
	clear? (i.e., method is specified for an ultiple option for analysis (Ex: BTEX, N								
				N/A ***Exemption	permitted	<u>for metals (e.</u>	<u>g,200.8/60</u> 2	<u>20A).</u>	
Were proper containe	rs (type/mass/volume/preservative***))used? Yes							
	Volatile / LL-Hg Req	uirements							
Were Trip Blanks	(i.e., VOAs, LL-Hg) in cooler with sar	mples? N/A							
Were all water VOA via	als free of headspace (i.e., bubbles \leq 0	6mm)? N/A							
Were al	soil VOAs field extracted with MeOH	+BFB? N/A							
Note to Cli	ent: Any "No", answer above indicates not	n-compliance	with stand	lard procedures and	d may imp	act data quali	ty.		
	Additiona	Il notes (if a	applicable	e):					



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	Container Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition
1216667001-A 1216667001-B 1216667002-A 1216667002-B	HCL to pH < 2 HCL to pH < 2 HCL to pH < 2 HCL to pH < 2	ОК ОК ОК ОК			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis

requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN - Insufficient sample quantity provided.

Laboratory Data Review Checklist

Comple	ted by:	Alex Tula						
Title:		Environmental C	Geologist		Date:	Oct. 22, 2021		
CS Repo	ort Name:	t Name: 2021 GROUNDWATER MONITORING REPORT FAIRBANKS WAREHOUSE SITE				Oct. 15, 2021		
Consult	nsultant Firm: Alta Geosciences, Inc.							
Laborate	ratory Name: SGS North America, Inc. Laboratory Report Number: 1216667					7		
ADEC F	file Number:	100.38.170	ADEC RecKey Numb		mber:			
1. <u>Lab</u>	ooratory							
	a. Did an	ADEC CS approv	ed laboratory	receive and <u>perform</u> all	of the submitted	sample analyses?		
	• Yes	⊖ No	○ NA (Ple	ase explain.)	Comments:			
	b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?							
	⊖ Yes	⊖ No	• NA (Plea	se explain)	Comments:			
Sa	Samples were not subcontracted.							
2. <u>Chai</u>	in of Custody	<u>(COC)</u>						
	a. COC infor	rmation completed	l, signed, and o	dated (including release	ed/received by)?			
	• Yes	\bigcirc No	⊖NA (Plea	se explain)	Comments:			
	b. Correct ar	nalyses requested?	2					
	• Yes	⊖ No	⊖NA (Ple	ease explain)	Comments:			
3. <u>Labo</u>	oratory Samp	le Receipt Docum	entation					
	a. Sample/co	oler temperature	documented ar	nd within range at recei	pt $(4^{\circ} \pm 2^{\circ} C)$?			
	• Yes	○ No	ONA (Ple	ease explain)	Comments:			

b. Sample preservation acceptable -	acidified waters, Methanc	ol preserved VOC soi	l (GRO, BTEX,
Volatile Chlorinated Solvents, etc	.)?		

• Yes	⊖ No	○NA (Please explain)	Comments:		
c. Sample con	dition docume	nted - broken, leaking (Methanol),	zero headspace (VOC vials)?		
• Yes	⊖ No	○NA (Please explain)	Comments:		
	• •	•	or example, incorrect sample containers/ insufficient or missing samples, etc.?		
\bigcirc Yes	\bigcirc No	•NA (Please explain)	Comments:		
No discrepancies					
e. Data quality	v or usability a	ffected? (Please explain)			
1 7	2		Comments:		
No data quality o	r usability was	s affected by sample receipt.			
Case Nametine					
Case Narrative	1 . 111	0			
a. Present and					
• Yes	⊖ No	○NA (Please explain)	Comments:		
b. Discrepanci	es, errors or Q	C failures identified by the lab?			
• Yes	\bigcirc No	○NA (Please explain)	Comments:		
c. Were all co	c. Were all corrective actions documented?				
• Yes	⊖ No	○NA (Please explain)	Comments:		

d. What is the effect on data quality/usability according to the case narrative?

Comments:

No data quality or usability was affected by the case narrative.

4.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

• Yes	⊖ No	○NA (Please explain)	Comments:
b. All applicat	ole holding tim	es met?	
• Yes	⊖ No	○NA (Please explain)	Comments:
c All soils rer	ported on a dry	weight basis?	
⊖ Yes	○ No	• NA (Please explain)	Comments:
No soil samples v	were included.		
d. Are the repo project?	orted PQLs less	s than the Cleanup Level or the min	imum required detection level for the
• Yes	○ No	○NA (Please explain)	Comments:
No data quality o QC Samples a. Method Blar			
		orted per matrix, analysis and 20 sa	imples?
• Ye	s 🔿 No	○NA (Please explain)	Comments:
ii. All met	hod blank resu	lts less than PQL?	
• Ye	es 🔿 No	○NA (Please explain)	Comments:
iii. If abov	e PQL, what sa	amples are affected?	Comments:
NA			

⊖ Yes	⊖ No	• NA (Please explain)	Comments:
v. Data qu	ality or usabil	lity affected? (Please explain)	Comments:
data quality	or usability w	as affected by the method blanks.	
. Laboratory	Control Sam	ple/Duplicate (LCS/LCSD)	
0		CCSD reported per matrix, analysis a equired per SW846)	and 20 samples? (LCS/LCSD requir
• Yes	⊖ No	○NA (Please explain)	Comments:
ii. Metals/ samples?	Inorganics - C	One LCS and one sample duplicate r	eported per matrix, analysis and 20
⊖ Yes	○ No	• NA (Please explain)	Comments:
project sp	ecified DQOs	ent recoveries (%R) reported and wit , if applicable. (AK Petroleum metho %-120%; all other analyses see the la	ods: AK101 60%-120%, AK102
• Yes	⊖ No	○NA (Please explain)	Comments:
limits? Ar	nd project spec	ve percent differences (RPD) reporte cified DQOs, if applicable. RPD reporte cate. (AK Petroleum methods 20%;	orted from LCS/LCSD, MS/DMSD

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

⊖ Yes	⊖ No	• NA (Please explain)	Comments:
No flagging w	as necessary.		
vii. Data	quality or usab	oility affected? (Please explain)	Comments:
No data qualit	y or usability w	vas affected by accuracy or precision	on.
c. Surrogates	s - Organics Or	ıly	
i. Are sur	rogate recoveri	es reported for organic analyses -	field, QC and laboratory samples?
• Yes	⊖ No	ONA (Please explain)	Comments:
project s	• 1	, if applicable. (AK Petroleum met ges)	ithin method or laboratory limits? And thods 50-150 %R; all other analyses see
• Yes	s 🔿 No	\bigcirc NA (Please explain)	Comments:
iii. Do th clearly d ○ Yes	-	● NA (Please explain)	have data flags? If so, are the data flags Comments:
iv. Data	quality or usabi	ility affected? (Use the comment b	ox to explain.). Comments:
No data quality	or usability w	as affected by the surrogates.	
<u>Soil</u> i. One tri		ed per matrix, analysis and for each	Chlorinated Solvents, etc.): <u>Water and</u> n cooler containing volatile samples?
⊖ Yes	⊖ No	• NA (Please explain.)	Comments:
(If not	t, a comment ex	xplaining why must be entered belo	camples clearly indicated on the COC?
• Yes	⊖ No	• NA (Please explain.)	Comments:
L			

$\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{N}}$ (Please explain.) Comments: iv. If above PQL, what samples are affected? Comments: Comments: v. Data quality or usability affected? (Please explain.) Comments: e. Field Duplicate Comments: i. One field duplicate submitted per matrix, analysis and 10 project samples? Comments: $\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{N}}$ (Please explain.) ii. Submitted blind to lab? Comments: $\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{N}}$ (Please explain.) iii. Submitted blind to lab? Comments: $\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{O}$ NA (Please explain.) $\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{O}$ NA (Please explain.) $\widehat{\mathbf{O}}$ Yes $\widehat{\mathbf{N}}$ $\widehat{\mathbf{O}$ NA (Please explain.) $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ NA (Please explain.) Comments: $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ NA (Please explain.) Comments: $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ NA (Please explain.) Comments: $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}}$ $\widehat{\mathbf{O}$ $\widehat{\mathbf{O}$	iii. All resu	lts less than I	PQL?	
v. Data quality or usability affected? (Please explain.) e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? • Yes $\cap N_0$ $\cap N_2$ ii. Submitted blind to lab? • Yes $\cap N_0$ $\cap N_4$ (Please explain.) Comments: iii. Submitted blind to lab? (iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R_1R_2)_X 100 ((R_1R_2)/2) Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration R_2 = Field Duplicate Concentration (i) Yes $\cap N_0$ (Please explain) Comments:	• Yes	⊖ No	○ NA (Please explain.)	Comments:
v. Data quality or usability affected? (Please explain.) c. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? (e) Yes No NA (Please explain) Comments: ii. Submitted blind to lab? (e) Yes No NA (Please explain.) Comments: iii. Submitted blind to lab? (f) Yes No NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R_1R_2)_x 100 ((R_1R_2)/2) TO (R_1R_2) = Field Duplicate Concentration R_2 = Field Duplicate Concentration R_2 = Field Duplicate Concentration (f) Yes No C NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.) Comments:				
v. Data quality or usability affected? (Please explain.) Comments: e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? • Yes No NA (Please explain) Comments: Comments: ii. Submitted blind to lab? Comments: iii. Submitted blind to lab? Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R_1-R_2)_X 100 ((R_1+R_2)/2) Where R ₁ = Sample Concentration R ₂ = Field Duplicate Concentration @ Yes No NA (Please explain) Comments:	iv. If above	e PQL, what	samples are affected?	
v. Data quality or usability affected? (Please explain.) Comments: e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? • Yes No NA (Please explain) Comments: Comments: ii. Submitted blind to lab? Comments: iii. Submitted blind to lab? Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R_1-R_2)_X 100 ((R_1+R_2)/2) Where R ₁ = Sample Concentration R ₂ = Field Duplicate Concentration @ Yes No NA (Please explain) Comments:				Comments:
e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? (• Yes \land No \land NA (Please explain) Comments: ii. Submitted blind to lab? (• Yes \land No \land NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R ₁ . R ₂)_ x 100 ((R ₁ + R ₂)/2) Where R ₁ = Sample Concentration R ₂ = Field Duplicate Concentration (• Yes \land No \land NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)				
e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? (• Yes \land No \land NA (Please explain) Comments: ii. Submitted blind to lab? (• Yes \land No \land NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R_1 = R_2) x 100 ((R_1 + R_2)/2) Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration (• Yes \land No \land NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)	v. Data av	lity of yeahi	lity offected? (Diago evaluin)	
e. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples?	v. Data qua	inty of usabi	inty affected? (Please explain.)	Commonts
i. One field duplicate submitted per matrix, analysis and 10 project samples? (• Yes No \cap NA (Please explain) Comments: ii. Submitted blind to lab? (• Yes No \cap NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R1=R2) x 100 ((R1+R2)/2) Where R1 = Sample Concentration R2 = Field Duplicate Concentration Comments: (• Yes No \cap NA (Please explain) Comments:				Comments.
i. One field duplicate submitted per matrix, analysis and 10 project samples? (• Yes No \cap NA (Please explain) Comments: ii. Submitted blind to lab? (• Yes No \cap NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R1=R2) x 100 ((R1+R2)/2) Where R1 = Sample Concentration R2 = Field Duplicate Concentration Comments: (• Yes No \cap NA (Please explain) Comments:				
i. One field duplicate submitted per matrix, analysis and 10 project samples? (• Yes No $C NA$ (Please explain) Comments: ii. Submitted blind to lab? (• Yes No $O NA$ (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R1=R2) x 100 ((R1+R2)/2) Where R1 = Sample Concentration R2 = Field Duplicate Concentration Comments: (• Yes No $O NA$ (Please explain) Comments:	a Field Duralis	to		
• Yes No \cap NA (Please explain) Comments: • Yes No \cap NA (Please explain.) Comments: • Yes No \cap NA (Please explain.) Comments: • Yes \cap No \cap NA (Please explain.) Comments: • Yes \cap No \cap NA (Please explain.) Comments: • Yes \cap No \cap NA (Please explain.) Comments: • Where R ₁ = Sample Concentration RPD (%) = Absolute Value of: (R ₁ - R ₂)_x 100 ((R ₁ + R ₂)/2) Where R ₁ = Sample Concentration R ₂ = Field Duplicate Concentration • Yes \cap No \cap NA (Please explain) Comments: • Yes \cap No \cap NA (Please explain) Comments: • Ves \cap No \cap NA (Please explain) Comments:	-		bmitted per matrix, analysis and 10	project samples?
iii. Submitted blind to lab? (• Yes No NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: $(R_1 - R_2)_{-X} 100$ $((R_1 + R_2)/2)$ Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration (• Yes No NA (Please explain) Comments:		copinence sur		
 Yes No NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R₁- R₂) x 100 ((R₁+ R₂)/2) Where R₁ = Sample Concentration R₂ = Field Duplicate Concentration Yes No NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.) 	• Yes	⊖ No	○NA (Please explain)	Comments:
 Yes No NA (Please explain.) Comments: iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: (R₁-R₂) x 100 ((R₁+R₂)/2) Where R₁ = Sample Concentration R₂ = Field Duplicate Concentration Yes No NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.) 				
iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil) RPD (%) = Absolute Value of: $(\underline{R_1 - R_2})_{x \to 100}$ (($R_{1+}, R_2)/2$) Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration (Yes O No ONA (Please explain)) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)	ii. Submitt	ed blind to la	b?	
(Recommended: 30% water, 50% soil)RPD (%) = Absolute Value of: $(\underline{R_1} - \underline{R_2})_{-\underline{X}} 100$ $((\underline{R_1} + \underline{R_2})/2)$ Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration \mathbb{O} Yes \mathbb{O} No \mathbb{O} NA (Please explain)Comments:iv. Data quality or usability affected? (Use the comment box to explain why or why not.)	• Yes	\bigcirc No	○ NA (Please explain.)	Comments:
(Recommended: 30% water, 50% soil)RPD (%) = Absolute Value of: $(\underline{R_1} - \underline{R_2})_{-X} 100$ $((\underline{R_1} + \underline{R_2})/2)$ Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration• Yes \bigcirc No \bigcirc NA (Please explain)Comments:iv. Data quality or usability affected? (Use the comment box to explain why or why not.)				
(Recommended: 30% water, 50% soil)RPD (%) = Absolute Value of: $(\underline{R_1} - \underline{R_2})_{-\underline{X}} 100$ $((\underline{R_1} + \underline{R_2})/2)$ Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration \mathbb{O} Yes \mathbb{O} No \mathbb{O} NA (Please explain)Comments:iv. Data quality or usability affected? (Use the comment box to explain why or why not.)				
(Recommended: 30% water, 50% soil)RPD (%) = Absolute Value of: $(\underline{R_1} - \underline{R_2})_{-\underline{X}} 100$ $((\underline{R_1} + \underline{R_2})/2)$ Where R_1 = Sample Concentration R_2 = Field Duplicate Concentration \mathbb{O} Yes \mathbb{O} NO \mathbb{O} NA (Please explain)Comments:iv. Data quality or usability affected? (Use the comment box to explain why or why not.)	iii. Precisio	on - All relati	ve percent differences (RPD) less tl	han specified DOOs?
$((R_{1+} R_2)/2)$ Where $R_1 = $ Sample Concentration $R_2 = $ Field Duplicate Concentration • Yes \cap No \cap NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)			-	1
Where R ₁ = Sample Concentration R ₂ = Field Duplicate Concentration • Yes • No • NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)]	RPD (%) = Absolute Value of: (\underline{R}_{1-})	<u>R₂)</u> x 100
R_2 = Field Duplicate Concentration • Yes • No • NA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.)			$((R_{1+} R_{1+}))$	22)/2)
 Yes O No ONA (Please explain) Comments: iv. Data quality or usability affected? (Use the comment box to explain why or why not.) 	1	-		
iv. Data quality or usability affected? (Use the comment box to explain why or why not.)	R ₂			
	• Yes	\bigcirc No	○NA (Please explain)	Comments:
	iv Data av	ality or usab	ility affected? (Use the comment be	x to explain why or why not)
○ Yes ● No ○ NA (Please explain) Comments:	-	-	•	- - - -
	RPD=18%]

○ Yes ● No ○ NA (Please explain) Comments:					
i. All results less than PQL?					
\bigcirc Yes \bigcirc No \bigcirc NA (Please explain) Comments:					
No equipment blank was submitted.					
ii. If above PQL, what samples are affected?					
Comments:					
NA					
iii. Data quality or usability affected? (Please explain.) Comments:					
No data quality or usability was affected.					
. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u> a. Defined and appropriate?					
● Yes ○ No ○ NA (Please explain) Comments:					

Reset Form