Attachment E Calibration Logs



SERVIC	E TECHNICIAN: 613		D	ATE: M/28/2 1
RENTAL	CUSTOMER:			
<u>INSTRUI</u>	MENT INFORMATION			9
RENTAL	I.D. NUMBER: YSIPRODS	S. <u>49</u>		
SERIAL	NUMBER: 20100170			
CALIBRA	ATION INFORMATION			
PARAME	ETER:	STANDARD:	PASS	LOT#
1.	CONDUCTIVITY	1,000 μMhos	~	057939
2.	pH ZERO	pH 7		05-6161
	pH SLOPE	pH 4		056160
	pH SLOPE	pH 10	_	05-6162
3.	DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mml	Hg ✓	N/A
	DISSOLVED OXYGEN ZERO TEST	(Sodium Sulfite)	NA	NA
4.	TURBIDITY ZERO	0.0 NTU's	/	12/25/21
	TURBIDITY SPAN	100 NTU's		10/25-14
5	REDOX (ORP)	231mV (VSI Zobell solution)		BIG 2 121



SERVICE TECHNICIAN: 63		D.	ATE: <i>lei cenci</i>
RENTAL CUSTOMER:			
INSTRUMENT INFORMATION		*	
RENTAL I.D. NUMBER: YSIPRODS	s. <u>41</u>		
SERIAL NUMBER: 19)10 001			
CALIBRATION INFORMATION			
PARAMETER:	STANDARD:	PASS	LOT#
1. CONDUCTIVITY	1,000 μMhos	_	057939
2. pH ZERO	pH 7	_	E5-6161
pH SLOPE	pH 4	_	686168
pH SLOPE	pH 10	_	006175
3. DISSOLVED OXYGEN	Air Calibration		
DISSOLVED OXYGEN	Barometric pressure = 760m	mHg <u>//</u>	N/A
ZERO TEST	(Sodium Sulfite)	NA	<u>~/A</u>
4. TURBIDITY ZERO	0.0 NTU's		10/25/21
TURBIDITY SPAN	100 NTU's		10/2014
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	092121



SERV	IC	E TECHNICIAN: <u>GB</u>			l	DATE: /0/242/
RENT	ΆL	CUSTOMER:				
INSTE	<u> </u>	MENT INFORMATION				
RENT	AL	. I.D. NUMBER: YSIPRODS	S. <u>/2</u>			
SERIA	\L	NUMBER: 16F104659				
CALIB	R/	ATION INFORMATION	0"			
PARA	ME	ETER:	STANDARD:		PASS	LOT#
	1.	CONDUCTIVITY	1,000 μMhos		1	057937
	2.	pH ZERO	pH 7			056161
		pH SLOPE	pH 4	1+	/	65-6160
V		pH SLOPE	pH 10			65-6162
	3.	DISSOLVED OXYGEN	Air Calibration Barometric pressure	e = 760mml	Hg <u>✓</u>	N/A
		DISSOLVED OXYGEN ZERO TEST	(Sodium Sulfite)		NA	NA
1	4.	TURBIDITY ZERO	0.0 NTU's			12025121
ř		TURBIDITY SPAN	100 NTU's			16/25/21
	5.	REDOX (ORP)	231mV (YSI Zobell	solution)		092121
- F						



SERVICE TECHNICIAN: 68		D	ATE: 10/25/2
RENTAL CUSTOMER:			
INSTRUMENT INFORMATION RENTAL I.D. NUMBER: YSIPRODS SERIAL NUMBER: 19K/0/4/6	SS. <u>31</u>		
CALIBRATION INFORMATION			
PARAMETER:	STANDARD:	PASS	LOT#
1. CONDUCTIVITY	1,000 μ M hos	~	057939
2. pH ZERO	pH 7		056161
pH SLOPE	pH 4	_	056/60
pH SLOPE	pH 10		056162
3. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mml	Hg	N/A
DISSOLVED OXYGEN ZERO TEST	(Sodium Sulfite)	NA	NA
4. TURBIDITY ZERO	0.0 NTU's	_	10/25/21
TURBIDITY SPAN	100 NTU's	~	12/20121
5 REDOX (ORP)	231mV (VSI Zobell solution)	/	092121



SERVIC	E TECHNICIAN: 68		D	ATE: <i>[[2]</i> 25]21
RENTAL	_ CUSTOMER:			
RENTAL	MENT INFORMATION I.D. NUMBER: YSIPRODS NUMBER: 191/00 050	S. <u>39</u>		
CALIBR	ATION INFORMATION			
PARAMI	ETER:	STANDARD:	PASS	LOT#
1.	CONDUCTIVITY	1,000 μ M hos	<u>/</u>	057937
2.	pH ZERO	pH 7	<u>~</u>	05-6161
	pH SLOPE	pH 4	~	056160
	pH SLOPE	pH 10	~	OUCKE
3.	DISSOLVED OXYGEN	Air Calibration		
	DISSOLVED OXYGEN	Barometric pressure = 760mml		N/A
	ZERO TEST	(Sodium Sulfite)	<u>~/</u> }	WA
4.	TURBIDITY ZERO	0.0 NTU's	_	10/20121
	TURBIDITY SPAN	100 NTU's		10/20121
5.	REDOX (ORP)	231mV (YSI Zobell solution)		072121



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NERT, Henderson, NV

Task Name: GW Monitoring Task No.: H02 Rental from: EQUIPCO Task Manager: Jesse Bunkers
Field Personnel: J. Bunkers Serial Number: 20 F000 290 Type: YSI ProDSS. 49

	Time	Temp (°C)	<u>Pre-Calibration</u>								Post-Calibration							
Date			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	рН (рН = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)		
11/1/21	1606	24.2	4,47	7.11	9.72	249.6	1.12(101.5	-8,85	4.00	7.0 (10.02	225.9	1.000	100.0	0.00		
11/2/21	1500	24.5	4.09	7.08	10.04	224.0	1.047	99.6	-0.15	4.00	7.00	10.02	225.3	1.000	100.0	0.00		
11/3/21	1445	24.7	3,99	7.07	10.07	225.8	0.950	100.8	-0.33	400	7.01	10.03	226.8	1.000	100.0	0.00		
11/4/21	1510	24.5	4.03	7.02	10.00	224.6	0.987	99.9	0.32	4,00	7.01	10.02	225.5	1,000	0.800	0.60		
										:								
										÷								
															-			

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NERT, Henderson, NV

 Task Name: GW Monitoring
 Task No.: H02
 Rental from: EQUIPCO
 Task Manager: Jesse Bunkers

 Field Personnel: Jorgan
 Serial Number: 19 J 101001
 Type: YSI ProDSS

			<u>Pre-Calibration</u>							Post-Calibration							
Date	Time	Temp (°C)	pH (pH = 4.0)	рН (рН = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)	pH (pH = 4.0)	рн (рн = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	
11/01/2021	1600	22.5	3,88	6.99	4.97	233.9	9.580	102.6	-0.45	4,0	7.0	10.0	234.3	1.000	100	0	
11/02/2021	1530	23.5	3.99	7.05	9,98	231.1	1.010	99.2	-1.35	4.0	7.0	10.0	232.9	1,000	100	0	
1/08/2021	1545	23.8	4.03	7.04	9.98	231,7	1.030	99.8	-0.01	4.0	7.0	10.0	232.5	1.000	Wo	0	
11/04/2011	1600	24,0	4,04	7.06	9.97	230.1	1,070	100.1	0.03	4,0	7,0	10.0	232.0	1,000	100	0	
				A.													
Notes:																	

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NERT, Henderson, NV

Task Name: GW Monitoring Task No.: H02 Rental from: EQUIPCO Task Manager: Jesse Bunkers

Field Personnel: K. VEAGER Serial Number: 16F194830 Type: YSI ProDSS

Date	Time	Temp (°C)			<u>P</u>	re-Calibrat	tion .				Post-Calibration							
			рН (рН = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	рн (рн = 7.0)	рН (рН = 10.0)	ORP (mV)	Cond. (mS/cm)	0%) 00	Turbidity (NTU)		
4/2/21	1445	25.0	4.16	6.95	9.87	234.2	1.188	2 1064	-0.9	4.08	6.99	9.9z	231.0	اها	100.1	-0.8		
4/3/21	1512	23.1	3.98	7.01	2.81	237.9	1.027	100.1	~6.I	3.99	701	10,03	231.0	1,002	100-1	-0-1		
11/4/21	1510	29.3	4.04	7-Ko	9.88	29.7	6.980	99.8	-0.1	4.01	7.00	9.91	235.1	0.977	100.0	-0.Z		
15 JAC 20																		
Notes							S											

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NERT, Henderson, NV

Task Name: GW Monitoring Task No.: H02 Rental from: EQUIPCO Task Manager: Jesse Bunkers
Field Personnel: とこのい Serial Number: 19にはいいには、 Type: YSI ProDSS

					Pr	e-Calibrat	ion					Po	st-Calibra	tion		
Date	Time	Temp (°C)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	0%) OO	Turbidity (NTU)
11/2/21	1458	25.0	334	TA3	9.69	255.8	1022	8.26	-7.18	4.00	6.87	9.(9	233,4	10-10	0.0	0.0
11/3/21	1437	23.6	4.00	6.98	9.83	238.3	1046	8.35	-0.92	' *	6.27	9.20	234.3	1092		0.0
4/4/21	1457	23.7	3.37	6.92	9,75	2353	1073	8.23	32.05	4,00	6.87	9,20	233.7	1110	8.20	0,0
										1 13						
Notes:																

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NERT, Henderson, NV

Task Name: GW Monitoring Task No.: H02 Rental from: EQUIPCO Task Manager: Jesse Bunkers
Field Personnel: Row Phillips Serial Number: 19 J 10050 Type: YSI ProDSS

					Pre	e-Calibrat	<u>ion</u>					Pos	st-Calibra	tion .		
Date	Time	Temp (°C)	pH (pH = 4.0)	рН (рН = 7.0)	рН (рН = 10.0)	ORP (mV)	Cond. (mS/cm)	0%)	Turbidity (NTU)	pH (pH = 4.0)	рн (рн = 7.0)	рН (рН = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
11-1-21	16:15	23.2	4.44	7.01	9.89	231.3	713	93.7	-3.3	4.02	7,00	9.93	238	[00]	93.9	0.0
11-2-21	14:45	29.2	4.02	7.33	10.15	237.5	1.485	94.6	24	4.00	7.00	10.00	232.8	0.999	94.2	0.01
11-3-21	14:37	22.8	4.11	7.20	10.09	230.8	833	95.0	0.01	4-00	7,07	10.02	233.5	1001	94.2	0.0
11-4-21	14:34	26.1	4.10	2.15	10.04	23 1.2	1.005	93.4	0.60	4.00	7.02	9.99	232.9	1000	93.9	0.00
	M					ç.	Ø.									
Notes																



November 2021 Sampling Event

DTW readings taken on all Interceptor Wells, SWF, AWF and AP5 Wells

Issues/Concerns

IWF, SWF, AWF, AP5 Wells DTW taken manually with Geotech Water Level Meter Serial #7053 on all wells.

PC99R2/R3 When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading.

Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel

AP5 Wells Sampled by ETI 2021 11 03. Will be done on a Monthly basis by ETI.

*PC-117, PC-133, ART-1, *All have more than 1-foot difference in DTW from 10/2021 to 11/2021. Data recorded on field sheet.

*ART-2A, ART-3A, ART-4A,

*ART-7B, ART-8, AT-8A, PC-150

*I-AB, I-AD, I-F, I-G, I-J, I-L, I-N,

*I-S, I-T

ART-2 and ART-2A Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2021 11 15

I-AB, I-AC DTW taken prior to turning well on to sample, purged prior to collecting sample.

I-Q DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.

Emily McGuire and Michael Bolton sampled November 2021

FD/EB

CLAVE	DC 110 2021 11 1F FD	DC 110 2021 11 1F FD
SWF	PC-118 2021 11 15 - FD	PC-119 2021 11 15 - EB

AWF ART-8 2021 11 15 - FD ART-9 2021 11 15 - EB

IWF I-B 2021 11 04 – FD I-C 2021 11 04 - EB

AP5 Wells E1-2 2021 11 03 - FD E1-3 2021 11 03 - EB

**Per email from Emily Gilson dated 4/12/2017 – removed historical_reference_elev and water_level_elev data from 2017 Groundwater Sampling EDD

Field Forms changes TWD will be marked with a "NM" not measured, unless a manual reading obtained. Manually record TWD in May

Monthly Table changes Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18

Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott

7/19/2017

Sampling Changes Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by

Tetra Tech in November and May.

			Well:	I-AA
Project/Site: NERT F	Project - Henderso	n Nevada	Date	(s): 11/4/21
Sampling Team: El				
Sampling Method:	V	Collected From Sa	mple Port 🔲 🛭	Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY		7		
Well Depth Inforr	mation- Date	e: 11/4/21	Time	: 10:12
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		Manually Taken at	: Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re				
1		wing at eet. Turned well o		minutes, minutes
Field Measureme	nts- Date	e: 11/4/21	Start	: Time: 11:00
Sample Time	рН	EC/MC	Temp	Well Observations
11:01	6.41 pH	4.55 mS/Cm	25.4 °C	
Sample Appearance	e: Clear w/Floa	ties		
Finish Time: 11:04				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
DUP EC Reading mS/Cm	QC pH			

			We	_{ell:} I-AB
Project/Site: NERT Project - Henderson Nevada				te(s): 11/4/21
Sampling Team: E	M			
Sampling Method:	V	Collected From Sa	mple Port 🛚	Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Dat	e: 11/4/21	Tin	ne: 10:14
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ually measured annually)		
Depth to Water(ft):		Manually Taken at	: Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
	on at <u>11:04</u> flo	wing at <u>6.35</u> eet. Turned well o		4 minutes, 2 minutes
Field Measureme	nts- Dat	e: 11/4/21	Sta	art Time: 11:04
Sample Time	рН	EC/MC	Temp	Well Observations
11:08	6.43 _{pH}	4.81 mS/Cm	27.5	C
Sample Appearance	e: Clear			
Finish Time: 11:10				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3	
DUP EC Reading mS/Cm	QC pH			

			CALLED TO THE PARTY OF THE PART	
			Well	: I-AC
Project/Site: NERT F	Project - Henderso	n Nevada		e(s): 11/17/21
Sampling Team: El				
Sampling Method:		Collected From Sa	mple Port 🛚	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforr	nation- Date	e: 11/17/21	Time	e: 10:55
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ually measured annually)		
Depth to Water(ft):		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re Turned pump or required per w	on at <u>10:56</u> , flo	wing at <u>3.45</u> neet. Turned well o		5 minutes, 4 minutes
Field Measureme	i nts . Dat	e: 11/17/21	Star	t Time: 10:55
Sample Time	pH	EC/MC	Temp	Well Observations
11:01	6.44 pH	6.43 mS/Cm	24.1 °C	
Sample Appearance	e: Clear			
Finish Time: 11:05				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading mS/Cm	QC pH			

				_{Vell:} I-AD	
Project/Site: NERT I	Project - Henderso	n Nevada		ate(s): 11/17/21	
Sampling Team: E					
Sampling Method:		Collected From Sa	mple Port	Hand Bailed du	ie to well Location
Weather Condition	s: Sunny				
DTW ONLY					
Well Depth Inform	mation- Date	e: 11/17/21	Т	ime: 11:05	
Total Well Depth(ft ('NM') - No m): NM neasurement taken, manu	ally measured annually)		F	
Depth to Water(ft):		Manually Taken at	t Well	Taken at Contr	ol Panel
Height of Water Co	lumn(ft):				
li .	on at, flo	wing ate eet. Turned well o		or minu	tes, minutes
Field Measureme	ents- Dat	e: 11/17/21		itart Time: 11:05	j
Sample Time	рН	EC/MC	Temp		Well Observations
11:06	6.54 pH	6.39 mS/Cm	24.7	°C	
Sample Appearanc	e: Pale Yellow				
Finish Time: 11:09					
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLC 1btl 1		1btl 1btl
DUP EC Reading mS/Cm	QC 1 pH				

				7
			w	_{'ell:} I-AR
Project/Site: NERT P	Project - Henderso	n Nevada	Da	ate(s): 11/4/21
Sampling Team: EN	М			
Sampling Method:	V	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	e: 11/4/21	Ti	me: 10:30
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):	34.72			
	<u></u>	Manually Taken at	Well	Taken at Control Panel
Height of Water Col	lumn(ft):			
Well Purge Re	equired		*:	
Turned pump o	n at, flo	wing at	gpm. Purged fo	r minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Date	e: 11/4/21	St	tart Time: 11:34
Sample Time	рН	EC/MC	Temp	Well Observations
11:35	7.41 pH	6.06 mS/Cm	29.4	°C
Sample Appearance	e: Clear			
Finish Time: 11:38				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO	TDS/NO3/SO4/CL CRVI btl 1btl Total Bottles: 5
DUP EC Reading	QC 6.95			

mS/Cm

29.8

			W	ell: I-B
Project/Site: NERT P	roject - Henderso	n Nevada	Da	ate(s): 11/4/21
Sampling Team: EM	1			
Sampling Method:	V	Collected From Sar	mple Port \Box	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	: 11/4/21	Tiı	me: 10:16
Total Well Depth(ft) ('NM') - No me	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		Manually Taken at	: Well	Taken at Control Panel
Height of Water Col	umn(ft):			
Well Purge Re	quired			
11		wing at eet. Turned well o		r minutes, minutes
Field Measuremen	nts- Date	e: 11/4/21	St	tart Time: 11:10
Sample Time	рН	EC/MC	Temp	Well Observations
11:11	6.82	5.24 mS/Cm	26.6	°C
Sample Appearance	: Clear			
Finish Time: 11:15				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO 1btl 1k	btl 1btl 1btl
				Total Bottles: 5

DUP EC Reading QC

mS/Cm pH

I-B 2021 11 04 - FD

Collected at same time for same analysis before moving to next well.

PH: 6.81 EC: 5.24 C: 26.4

29	_{Well:} I-C
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/4/21
Sampling Team: EM	
Sampling Method:	e Port 🔲 Hand Bailed due to well Location
Weather Conditions: Sunny	
DTW ONLY	
Well Depth Information- Date: 11/4/21	Time: 11:40
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 43.30 Manually Taken at We	II Taken at Control Panel
Height of Water Column(ft):	
Well Purge Required	
Turned pump on at, flowing at gpm	
required per well purge spreadsheet. Turned well off at	<u> </u>
Field Measurements- Date: 11/4/21	Start Time: 11:40 Temp Well Observations
Sample Time pH EC/MC	Temp Well Observations
pH mS/Cm	8.8 °C
Sample Appearance: Pale Yellow	
Finish Time: 11:48	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl 1btl	1btl 1btl 1btl
\bigcirc	
	Total Bottles: 5
DUP EC Reading QC I-C 2021 11 Collected for	04 - EB same analysis before moving on to next well.
mS/Cm pH Time: 11:44	
PH: 9.09	

C: 25.0

			Wel	ı: I-D
Project/Site: NERT F	Project - Henderso	n Nevada		e(s): 11/4/21
Sampling Team: El	M			
Sampling Method:	7	Collected From Sa	mple Port 🛚	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	e: 11/4/21	Tim	e: 12:15
Total Well Depth(ft ('NM') - No m		ually measured annually)		
Depth to Water(ft):		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re				
11		wing at neet. Turned well o		minutes, minutes
Field Measureme	nts- Dat	e: 11/4/21	Sta	rt Time: 12:15
Sample Time	рН	EC/MC	Temp	Well Observations
12:17	7.45 pH	7.88 mS/Cm	28.2 °C	
Sample Appearance	e: Yellow			
Finish Time: 12:19				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
DUP EC Reading mS/Cm	QC pl			

			Well	· I-E
Project/Site: NERT P	roject - Henderso	n Nevada		(s): 11/4/21
Sampling Team: EM				
Sampling Method:		Collected From Sar	mple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 11/4/21	Time	e: 12:05
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):				
,		Manually Taken at	Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	quired			
Turned pump o	n at flo	wing at	gpm. Purged for _	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
	*			
Field Measureme	nts- Dat	e: 11/4/21		t Time: 12:05
Sample Time	рН	EC/MC	Temp	Well Observations
12:07	7.45 pH	7.84 mS/Cm	28.1 °c	
Sample Appearance	e: Yellow			
Finish Time: 12:10				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			

			We	ali: I-F
Project/Site: NERT F	Project - Henderso	n Nevada	Dat	te(s): 11/4/21
Sampling Team: E				
Sampling Method:	7	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	s: Sunny/Windy	1		
DTW ONLY				
Well Depth Inforr	mation- Date	e: 11/4/21	Tim	ne: 11:50
Total Well Depth(ft ('NM') - No m): NM leasurement taken, manu	rally measured annually)		
Depth to Water(ft):		Manually Taken at	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
	ell purge spreadsh	wing ateet. Turned well o	ff at	minutes, minutes art Time: 11:50
Sample Time	рН	EC/MC	Temp	Well Observations
11:52	7.40 pH	9.08 mS/Cm	30.7 °(C
Sample Appearance	e: Yellow			
Finish Time: 11:55				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3 1btl 1bt	
DUP EC Reading mS/Cm	QC pH			

			Well	: I-G
Project/Site: NERT P	roject - Henderso	n Nevada	Date	e(s): 11/10/21
Sampling Team: EN			· · · · · · · · · · · · · · · · · · ·	
Sampling Method:		Collected From Sar	mple Port 🔲 🛭	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	e: 11/10/21	Time	e: 11:34
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):				
(,		Manually Taken at	: Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	quired			
Turned pump o	n at, flo	wing at	gpm. Purged for _	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Dat	e: 11/10/21	Star	t Time: 11:34
Sample Time	pH	EC/MC	Temp	Well Observations
11:35	7.32 _{pH}	10.56 mS/Cm	28.3 °c	
Sample Appearance	e: Yellow			
Finish Time: 11:38				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			
	I			

			Wel	ı: I-H	
Project/Site: NERT P	Project - Henderso	n Nevada		e(s): 11/10/21	
Sampling Team: EN			'		
Sampling Method:	V	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location	
Weather Conditions	: Sunny				
DTW ONLY					
Well Depth Inform	nation- Date	: 11/10/21	Tim	e: 11:19	
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):		Manually Taken at	Well	Taken at Control Panel	
Height of Water Co	umn(ft):				
Well Purge Re		wing at	gnm Durgod for	minutes minutes	
		eet. Turned well o		minutes, minutes	
required per we	en puige spreausi	eet. Turried Well o			
Field Measureme	nts- Dat	e: 11/10/21	Star	t Time: 11:19	
Sample Time	рН	EC/MC	Temp	Well Observations	
11:20	7.16 pH	9.90 mS/Cm	27.7 °C		
Sample Appearance	e: Yellow w/Flo	aties			
Finish Time: 11:23					
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI					
Bottles:	1btl \	1btl	1btl 1btl	1btl 1btl	
				Total Bottles: 5	
DUP EC Reading	QC pH	ψ.			
, 6	,	Ц			

			Well	· I-I		
Project/Site: NERT P	roject - Henderso	n Nevada		(s): 11/17/21		
Sampling Team: EM						
Sampling Method:		Collected From Sa	mple Port 🔲 I	Hand Bailed due to well Location		
Weather Conditions	: Sunny					
DTW ONLY						
Well Depth Inforn	nation- Date	e: 11/17/21	Time	e: 11:22		
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)				
Depth to Water(ft):		Manually Taken at	t Well	Taken at Control Panel		
Height of Water Col	umn(ft):					
1000 0000	n at, flo	wing at eet. Turned well o		minutes, minutes		
Field Measureme	nts- Dat	e: 11/17/21	Star	t Time: 11:22		
Sample Time	рН	EC/MC	Temp	Well Observations		
11:23	7.28 pH	6.26 mS/Cm	24.1 °C			
Sample Appearance	e: Yellow					
Finish Time: 11:26						
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl Total Bottles: 5						
DUP EC Reading mS/Cm	QC pH					

):		
			V	_{Vell:} I-J	
Project/Site: NERT P	roject - Henderso	n Nevada	D	rate(s): 11/17/21	
Sampling Team: EN	Л				
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well	Location
Weather Conditions	: Sunny				
DTW ONLY					
Well Depth Inforn	nation- Date	e: 11/17/21	I	īme: 11:14	
Total Well Depth(ft)	: NM easurement taken, manu	ally massured annually)			
Depth to Water(ft):		ally measured annually)			
Depth to Water(it).	-	Manually Taken a	t Well	Taken at Control Panel	
Height of Water Co					
					
Well Purge Re	auired				
		wing at	gpm. Purged fo	or minutes,	minutes
1		eet. Turned well o			
required poi ii	оп Рап Во обътава				
Field Measureme	nts- Dat	e: 11/17/21		Start Time: 11:14	
Sample Time	рН	EC/MC	Temp	Well Ob	servations
11:15	6.93	5.98 mS/Cm	23.5	°C	
Sample Appearance	e: Yellow				
Finish Time: 11:17					
	\bigcirc				
Analyses:	CLO4 \	TDS/NO3	CR CL		CRVI
Bottles:	1btl	1btl	1btl 1	lbtl 1btl	1btl
				Total Bottles: 5	
		ā			
DUP EC Reading	QC]			

DUP EC Reading	QC
5.99 mS/Cm	7.02 _{pH}
23.6 °C	

			Well	: I-K
Project/Site: NERT F	Project - Henderso	n Nevada	Date	e(s): 11/17/21
Sampling Team: El				
Sampling Method:		Collected From Sar	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	:: Sunny			
DTW ONLY				
Well Depth Inforr	nation- Date	e: 11/17/21	Tim	e: 11:10
Total Well Depth(ft				
	easurement taken, manu	ally measured annually)		
Depth to Water(ft):			. MII	Taken at Control Panel
		Manually Taken at	weii	Traken at Control Fanci
Height of Water Co	lumn(ft):			
П., п. в в.				
Well Purge Re			anm Durged for	minutes, minutes
3000 8000		eet. Turned well o		
required per w	eli purge spreausii	leet. Tuffied Well o		
Field Measureme	nts- Dat	e: 11/17/21	Sta	rt Time: 11:10
Sample Time	рН	EC/MC	Temp	Well Observations
44.44	0.77	0.70	24.8	
11:11	6.77 pH	6.70 mS/Cm		
Sample Appearance	e: Pale Yellow			
Finish Time: 11:13				
			$\overline{}$	
Analyses:	CLO4 (CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1bt	1btl 1btl
			\smile	
				Total Bottles: 5
	1	7		
DUP EC Reading	QC	1		
mS/Cm	pl pl	<u>"</u>		

			Well	: I-L		
Project/Site: NERT	Project - Henderso	n Nevada		e(s): 11/4/21		
Sampling Team: E						
Sampling Method:	V	Collected From Sar	mple Port 🗆	Hand Bailed due to well Location		
Weather Condition	s: Sunny					
DTW ONLY						
Well Depth Infor	mation- Dat	e: 11/4/21	Time	e: 10:24		
Total Well Depth(ft ('NM') - No m): NM neasurement taken, manu	ually measured annually)				
Depth to Water(ft)		Manually Taken at	: Well	Taken at Control Panel		
Height of Water Co	lumn(ft):					
II .	on at, flo	wing atg neet. Turned well o	ff at	minutes, minutes t Time: 11:23		
Sample Time	рН	EC/MC	Temp	Well Observations		
11:24	7.21 pH	6.18 mS/Cm	27.6 °C			
Sample Appearance	e: Clear					
Finish Time: 11:27						
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl Total Bottles: 5						
DUP EC Reading mS/Cm	QC n pH					

		Well	: I-M
Project/Site: NERT P	roject - Henderson Nevada	Date	(s): 11/4/21
Sampling Team: EM			
Sampling Method:		Sample Port 🔲 1	Hand Bailed due to well Location
Weather Conditions	: Sunny/Windy		
DTW ONLY			
Well Depth Inforn	nation- Date: 11/4/21	Time	e: 12:10
Total Well Depth(ft)	: NM easurement taken, manually measured annual	ly)	
Depth to Water(ft):	32.06 Manually Taken	at Well	Taken at Control Panel
Height of Water Co	umn(ft):		4-44-2
required per w	n at, flowing at ell purge spreadsheet. Turned wel	l off at	minutes, minutes t Time: 12:10
Field Measureme		Temp	Well Observations
Sample Time 12:12	7.51 pH 7.79 mS/C	26.7	
Sample Appearance	e: Yellow		
Finish Time: 12:15			
Analyses: Bottles:	CLO4 TDS/NO3 (1btl 1btl	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
DUP EC Reading mS/Cm	QC pH		

20'	Well: I-N
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/4/21
Sampling Team: EM	
Sampling Method: ☑ Collected From S	Sample Port 🔲 Hand Bailed due to well Location
Weather Conditions: Sunny	
DTW ONLY	
Well Depth Information- Date: 11/4/21	Time: 12:01
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually	у)
Depth to Water(ft): 32.08	
✓ Manually Taken	at Well Taken at Control Panel
Height of Water Column(ft):	
Well Durge Required	
Well Purge Required	_ gpm. Purged for minutes, minutes
required per well purge spreadsheet. Turned well	
required per well purge spreadsheet. Turned well	on de
Field Measurements- Date: 11/4/21	Start Time: 12:01
Sample Time pH EC/MC	Temp Well Observations
12:03 7.34 pH 7.86 mS/C	28.4 °C
Sample Appearance: Yellow	
Finish Time: 12:05	
Analyses: CLO4 TDS/NO3 Bottles: 1btl 1btl	CR CLO3 TDS/NO3/SO4/CL CRVI 1btl 1btl 1btl 1btl Total Bottles: 5
DUP EC Reading QC 7.66 7.04	
25.2 °C	

		Well:	I-O
Project/Site: NERT Project - Hende	rson Nevada		s): 11/10/21
Sampling Team: EM		- I	
	☑ Collected From Sar	nple Port 🔲 H	and Bailed due to well Location
Weather Conditions: Sunny			
DTW ONLY			
Well Depth Information-	Date: 11/10/21	Time:	11:02
Total Well Depth(ft): NM ('NM') - No measurement taken, i	manually measured annually)		
Depth to Water(ft): 29.47	✓ Manually Taken at	: Well	aken at Control Panel
Height of Water Column(ft):			
required per well purge sprea	Date: 11/10/21 EC/MC 7.95	Start Temp 27.2	Time: 11:02 Well Observations
	pH mS/Cm	°C	
Sample Appearance: Yellow Finish Time: 11:07			
Analyses: CLO4 Bottles: 1btl DUP EC Reading QC	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
mS/Cm	рН		

			We	_{ell:} I-P
Project/Site: NERT P	roject - Henderson	ate(s): 11/10/21		
Sampling Team: EM				
Sampling Method:		Collected From San	nple Port 🛛	Hand Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	: 11/10/21	Tir	me: 11:14
Total Well Depth(ft)	: NM	. W		
	asurement taken, manua	ally measured annually)		
Depth to Water(ft):		Manually Taken at	Well	Taken at Control Panel
Height of Water Col		,		
rieigne er trees	, ,			
Well Purge Re	quired			
Turned pump o	n at, flov	ving at{	gpm. Purged fo	or minutes, minutes
		eet. Turned well o		
L				
Field Measureme	nts- Date	e: 11/10/21	St	start Time: 11:14
Sample Time	рН	EC/MC	Temp	Well Observations
11:16	7.05 pH	9.19 mS/Cm	27.4	<u>°C</u>
Sample Appearance	e: Yellow			
Finish Time: 11:18				
Analyses:	CLO4	TDS/NO3	CR CLO	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl		btl 1btl 1btl
				Total Bottles: 5
DUP EC Reading mS/Cm	QC pH			

			Wall	I-Q
			(s): 11/10/21	
		Nevaua	Date	(0)
Sampling Team: EN		Collected From Sar	nnle Port 🔲 I	Hand Bailed due to well Location
Sampling Method:		Collected From Sar	inple rore = .	
Weather Conditions	: Suring			
DTW ONLY				
Well Depth Inforn	nation- Date	: 11/10/21	Time	e: 11:39
Total Well Depth(ft)	: NM easurement taken, manua	ally measured annually)		
Depth to Water(ft):				
	-	్గా Manually Taken at	: Well	Taken at Control Panel
Height of Water Col		2		
Well Purge Re	equired			
Turned pump o	on at, flow	wing at	gpm. Purged for _	minutes, minutes
required per well purge spreadsheet. Turned well off at				
Field Measureme	nts- Date	e: 11/10/21	Star	t Time: 11:39
Sample Time	рН	EC/MC	Temp	Well Observations
11:40	7.31 _{pH}	10.03 mS/Cm	27.4 °C	
Sample Appearance	e: Yellow			
Finish Time: 11:43				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1btl	
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			
		•		

			Well:	I-R
Project/Site: NERT P	roject - Henderson	n Nevada		(s): 11/4/21
Sampling Team: EN			•	
Sampling Method:		Collected From Sar	nple Port 🔲 l	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 11/4/21	Time	e: 10:20
Total Well Depth(ft)	: NM easurement taken, manua	ally measured annually)		
Depth to Water(ft):	31.90	Manually Taken at	Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
	n at, flow		ff at	minutes, minutes t Time: 11:15
Sample Time	рН	EC/MC	Temp	Well Observations
11:16	6.93 pH	6.34 mS/Cm	26.9 °c	
Sample Appearance	e: Clear			
Finish Time: 11:19				
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl Total Bottles: 5				
DUP EC Reading mS/Cm	QC			

			Well	· I-S	
Project/Site: NERT Project - Henderson Nevada				e(s): 11/4/21	
Sampling Team: EM	1				
Sampling Method:		Collected From Sa	mple Port 🔲	Hand Bailed due to well Location	
Weather Conditions	Sunny				
DTW ONLY					
Well Depth Inform	nation- Date	: 11/4/21	Time	e: 10:27	
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):	1-41-0-00 - 2007 - 24	,			
		Manually Taken a	t Well	Taken at Control Panel	
Height of Water Col	umn(ft):				
Well Purge Re					
Turned pump o	n at, flo	wing at	gpm. Purged for ₋	minutes, minutes	
required per we	ell purge spreadsh	eet. Turned well c	off at		
Field Measureme	nts- Dat	e: 11/4/21	Sta	rt Time: 11:28	
Sample Time	рН	EC/MC	Temp	Well Observations	
11:29	7.26 pH	6.45 mS/Cm	27.1 °C		
Sample Appearance	Sample Appearance: Pale Yellow w/Floaties				
Finish Time: 11:32					
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl					
				Total Bottles: 5	
DUP EC Reading mS/Cm	QC pH				

		WAILING		
			Well:	I-T
29		Name		(s): 11/10/21
Project/Site: NERT Pr	oject - Henderson	Nevada	Date	
Sampling Team: EM			nnle Port 🗆 H	land Bailed due to well Location
Sampling Method:		Collected From Sar	nple Port ⊔ F	Hallu baileu due to Weii Eddadon.
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Inform	ation- Date	: 11/10/21	Time	e: 11:29
Total Well Depth(ft):				
('NM') - No me	asurement taken, manua	ally measured annually)		
Depth to Water(ft):	THE SUCCESSION STREET,			
	V	Manually Taken at	Well	Taken at Control Panel
Height of Water Col	umn(ft):			
Well Purge Re	quired			
Turned pump or	n at, flo	wing at	gpm. Purged for _	minutes, minutes
		eet. Turned well o		
Field Measuremen	nts- Dat	e: 11/10/21	Star	t Time: 11:29
Sample Time	рН	EC/MC	Temp	Well Observations
11:31	7.24 pH	10.58 mS/Cm	29.4 °c	
Sample Appearance: Yellow				
Finish Time: 11:33				
				1
Analyses:	CLO4 /	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1btl	
				Total Bottles: 5
DUP EC Reading	QC			

7.03

mS/Cm

10.58

29.5

		WALLET CO			
			We	_{II:} I-U	-
7.9	' - Llandorson	Nevada		:e(s): 11/10/21	
Project/Site: NERT Pr		Nevada			
Sampling Team: EN		Collected From San	nnle Port 🗆	Hand Bailed due to well Lo	ocation
Sampling Method:		Collected From San	ipie i dic		
Weather Conditions:	Sunny				
DTW ONLY					
Well Depth Inform	nation- Date	: 11/10/21	Tir	me: 11:24	
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):					
Dopan to Mate. (14).		Manually Taken at	Well	Taken at Control Panel	
Height of Water Col					
Well Purge Re	quired				
Turned nump o	nat , flo	wing at §	gpm. Purged for	r minutes,	minutes
		eet. Turned well o			
Тофиноврем	, , ,				
Field Measureme	nts- Dat	e: 11/10/21	St	art Time: 11:24	
Sample Time	рН	EC/MC	Temp	Well Obs	ervations
11:25	7.21	10.55	27.9		
	рН	mS/Cm		<u>°d</u>	
Sample Appearance: Yellow w/Floaties					
Finish Time: 11:28					
			~ _		
Analyses:	CLO4 \		CR CLO		CRVI
Bottles:	1btl \	1btl	1btl 1k	otl 1btl	1btl
				Tatal Datalani E	parameters
				Total Bottles: 5	

DUP EC Reading	QC
10.49 mS/Cm	7.03 _{pH}
27.1 °C	

				1.1/
-0			Well:	
Project/Site: NERT Pr	oject - Henderson	Nevada	Date(s): 11/17/21
Sampling Team: EM	1			
Sampling Method:	V C	ollected From Sar	nple Port 📙 F	land Bailed due to well Location
Weather Conditions	Sunny			
DTW ONLY Well Depth Inform	nation- Date	: 11/17/21	Time	: 11:28
Total Well Depth(ft)				
('NM') - No me	easurement taken, manua	ally measured annually)		
Depth to Water(ft):				Taken at Control Panel
		Manually Taken at	t Well	Taken at Control Fanci
Height of Water Co	umn(ft):			
Well Purge Re	equired			
Turned nump o	on at . flo	wing at	gpm. Purged for _	minutes, minutes
	ell purge spreadsh			
, , , , , , , , , , , , , , , , , , , ,				
Field Measureme	nts- Dat	e: 11/17/21	Star	t Time: 11:28
Sample Time	рН	EC/MC	Temp	Well Observations
11:29	7.30 pH	6.54 mS/Cm	24.6 °C	
Sample Appearanc	e: Clear			
Finish Time: 11:31				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC n pH			

Project/Site: NERT Project - Henderson Nevada Date(s): 11/10/21
Sampling Team: EM Sampling Method:
Sampling Team: EM Sampling Method:
Sampling Method: ✓ Collected From Sample Port Hand Bailed due to well Location Weather Conditions: Sunny DTW ONLY Well Depth Information- Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually) Depth to Water(ft): 28.93 ✓ Manually Taken at Well Taken at Control Panel Height of Water Column(ft): Well Purge Required Turned pump on at, flowing at gpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Sample Time
DTW ONLY Well Depth Information- Date: 11/10/21 Time: 11:08 Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually) Depth to Water(ft): 28.93 ✓ Manually Taken at Well Taken at Control Panel Height of Water Column(ft): Well Purge Required Turned pump on at, flowing atgpm. Purged forminutes,minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11:10 6.70 8.05 27.6
DTW ONLY Well Depth Information- Date: 11/10/21 Time: 11:08 Total Well Depth(ft): NM (NM) - No measurement taken, manually measured annually) Depth to Water(ft): 28.93 Wanually Taken at Well Taken at Control Panel Height of Water Column(ft): Well Purge Required Turned pump on at, flowing at gpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11:10 6.70 8.05 27.6
Well Depth Information- Date: 11/10/21 Time: 11:08 Total Well Depth(ft): NM
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually) Depth to Water(ft): 28.93 Wanually Taken at Well Taken at Control Panel Height of Water Column(ft): Well Purge Required Turned pump on at, flowing at gpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time
Depth to Water(ft): 28.93 I
Depth to Water(ft): 28.93 Wanually Taken at Well Taken at Control Panel Height of Water Column(ft): Well Purge Required Turned pump on at, flowing atgpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time PH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
Well Purge Required Turned pump on at, flowing at gpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
Well Purge Required Turned pump on at, flowing atgpm. Purged forminutes,minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
Well Purge Required Turned pump on at, flowing atgpm. Purged forminutes,minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
Turned pump on at flowing at gpm. Purged for minutes, minutes required per well purge spreadsheet. Turned well off at Field Measurements- Date: 11/10/21 Start Time: 11:08 Sample Time pH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
Field Measurements- Sample Time Date: 11/10/21 Start Time: 11:08 Well Observations 11.10 6.70 8.05 27.6
Field Measurements- Sample Time Date: 11/10/21 Start Time: 11:08 Well Observations 11.10 6.70 8.05 27.6
Sample Time pH EC/MC Temp Well Observations 11-10 6.70 8.05 27.6
Sample Time pH EC/MC Temp Well Observations 11.10 6.70 8.05 27.6
11·10 6.70 8.05 27.6
pH mS/Cm °C
Sample Appearance: Yellow w/Floaties
Finish Time: 11:13
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl
Bottles. Ibti Ibti Ibti Ibti Ibti
Total Bottles: 5
Dupse Production Co.
DUP EC Reading QC

	-		
		Well:	I-X
Project/Site: NERT Project - Henderson Nevada			s): 11/4/21
Sampling Team: EM			
Sampling Method:	✓ Collected From :	Sample Port 🔲 📙	land Bailed due to well Location
Weather Conditions: Sunny			
DTW ONLY			
Well Depth Information-	Date: 11/4/21	Time	e: 11:55
Total Well Depth(ft): NM			
	aken, manually measured annual	ly)	
Depth to Water(ft): 32.50	✓ Manually Taker	at Well	Taken at Control Panel
Height of Water Column(ft):	V Ivialidally raker	i de vven	
rieight of Water columnity.			
Well Purge Required			
Turned nump on at	, flowing at	gpm. Purged for _	minutes, minutes
required per well purge s			
Field Measurements-	Date: 11/4/21	Star	t Time: 11:55
Sample Time pl	H EC/MC	Temp	Well Observations
11:57 7.32	8.79 mS/0	30.0 °C	
Sample Appearance: Yellov	W		
Finish Time: 12:00			
Analyses: CLO2 Bottles: 1bt		CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl
			Total Bottles: 5
			Total Bottles
DUP EC Reading Q	QC		
8.79 6.98			

29.8

			Well:	I-Y
Project/Site: NERT Pro	niect - Henderson	Nevada	Date(s): 11/4/21
Sampling Team: EM	Jeer Hellers			
Sampling Method:	☑ C	ollected From San	nple Port 🔲 H	land Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Informa	ation- Date	11/4/21	Time	: 10:22
Total Well Depth(ft):	NM surement taken, manua	lly measured annually)		
Depth to Water(ft):				
		Manually Taken at	Well	Taken at Control Panel
Height of Water Colu	mn(ft):			
Well Purge Rec	uired			
Turned pump on	at, flov	ving at	gpm. Purged for _	minutes, minutes
required per wel	I purge spreadsh	eet. Turned well o	ff at	
				. T. 1110
Field Measuremen		: 11/4/21		t Time: 11:19
Sample Time	pH	EC/MC	Temp	Well Observations
11:20	7.15 _{pH}	6.36 mS/Cm	27.3 °C	
Sample Appearance:	Clear			
Finish Time: 11:23				
		500 mm 188		
		TDC/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Analyses: Bottles:	CLO4 (1btl)	1btl	CR CLO3	
bottles.				
				Total Bottles: 5
DUP EC Reading	QC			

mS/Cm

		VVAILNOAN		
			Well:	I-Z
Project/Site: NERT Pr	siact Henderson	Nevada	Date(s): 11/17/21
			-	
Sampling Team: EM	[7] C	ollected From Sam	ple Port 🔲 H	land Bailed due to well Location
Sampling Method: Weather Conditions:		Onecco		
Weather Conditions.	Gariny			
DTW ONLY				44.40
Well Depth Inform	ation- Date	: 11/17/21	Time	e: 11:18
Total Well Depth(ft)	: NM easurement taken, manua	ally measured annually)		
Depth to Water(ft):		-		
Deptil to water(14).		Manually Taken at	Well	Taken at Control Panel
Height of Water Col				
Tielgite of Trans				
Well Purge Re	quired			
Turned pump o	n at, flo	wing at	gpm. Purged for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Dat	e: 11/17/21	Star	rt Time: 11:18
Sample Time	рН	EC/MC	Temp	Well Observations
11:19	7.34 pH	5.94 mS/Cm	23.6 °C	
Sample Appearance	e: Yellow			
Finish Time: 11:21				
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC pH			

				10-1	
Ş			Well		
Project/Site: NERT Project - Henderson Nevada Date(s): 11/ 5 /21					
Sampling Team: E	mily McGuire	NB			
Sampling Method:	☑ C	ollected From Sar	mple Port 🔲 🛭	Hand Bailed due to well Location	_
Weather Conditions	s: 50nr	14			
		\circ			
☐ DTW ONLY					1
Well Depth Inform	mation- Date:	11/15/21	Time	e: 1017	
Total Well Depth(ft					
('NM') - No m Depth to Water(ft):	easurement taken, manua	28.63			
Depth to water(it).		Nanually Taken at	Well 🗆	Taken at Control Panel	
Height of Water Co		nanaany rakenat			
rieight of water co	turrin(re).				للحصح
□ Well Purge Re	equired				
		ving at	gom. Purged for	minutes, minutes	
l .	ell purge spreadshe				
- required por in	P 8				
Field Measureme	ents- Date	: 11/ /21	Star	t Time:	
Sample Time	PH	EC/MC	Temp	Well Observations	
	рН	mS/Cm	°C		
Sample Appearance:					
Finish Time:					_
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI	
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl	
				Total Bottles: 5	
-	,				
DUP EC Reading	QC				
mS/Cm	"				
mo/cm	рH				

	Well: ART-IA			
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ 5 /21			
Sampling Team: Emily McGuire MB				
Sampling Method: Collected From Sample Po	ort Hand Bailed due to well Location			
Weather Conditions: SUNNY				
□ DTW ONLY				
Well Depth Information- Date: 11/1 5 /21	Time: 1018			
Total Well Depth(ft): NM				
('NM') - No measurement taken, manually measured annually)				
Depth to Water(ft): Manually Taken at Well	☐ Taken at Control Panel			
Height of Water Column(ft):	- Taken de control valle.			
Treight of Water Columnity				
☐ Well Purge Required				
Turned pump on at, flowing at gpm. Pu	irged for minutes, minutes			
required per well purge spreadsheet. Turned well off at				
Field Measurements- Date: 11/ \(\) /21	Start Time: 1169			
Sample Time pH EC/MC Te	emp Well Observations			
1200 7.28 pH 6.61 ms/cm 2=	7.3 °c			
Sample Appearance: CIEAR				
Finish Time: 1203				
Analyses: CLO4 TDS/NO3 CR Bottles: 1btl 1btl 1btl	CLO3 TDS/NO3/SO4/CL CRVI 1btl 1btl 1btl Total Bottles: 5			
DUP EC Reading QC				
mS/Cm pH				

5				Well: ART-Z*	
Project/Site: NERT F	Project - Henderso	n Nevada		Date(s): 11/ 5 /21	
Sampling Team: E	mily McGuire	MB			
Sampling Method:	V	Collected From Sa	mple Port	☐ Hand Bailed due to well Location	
Weather Conditions		4			
	500 to 10 to			n concurrently,	
DTWONLY bottles labeled ART-ZIZA 1DZI 11 15					
Well Depth Inform	nation- Date	: 11/15/21		Time: 1021	
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):		32.42			
	U U	<i>.</i> Manually Taken at	t Well	☐ Taken at Control Panel	
Height of Water Co	lumn(ft):				
☐ Well Purge Re					
	Turned pump on at, flowing at gpm. Purged for minutes, minutes				
required per w	ell purge spreadsh	eet. Turned well o	ff at		
Field Measureme	nts- Date	e: 11/15/21		Start Time: 1203	
Sample Time	рН	EC/MC	Temp	Well Observations	
1204	7.08 pH	14.19 ms/cm	26.7	}- °C	
Sample Appearance: Clear					
Finish Time: 1207					
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl Total Bottles: 5					
DUP EC Reading	QC pH				

9	Well: ART-ZA*				
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ 1 5 /21				
Sampling Team: Emily McGuire MB					
Sampling Method: ☐ Collected From Sample Port	☐ Hand Bailed due to well Location				
Weather Conditions: ろりっつり					
*ART-Z and	ART-ZA run concurrently,				
DTW ONLY bottles labeled	L ART-2/2A 2021 11 15				
Well Depth Information- Date: 11/\5 /21	Time: 022				
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)					
Depth to Water(ft): 32.37					
☑ Manually Taken at Well	☐ Taken at Control Panel				
Height of Water Column(ft):					
☐ Well Purge Required Turned pump on at, flowing at gpm. Purg	ged for minutes minutes				
WAS AME CONTROL CONTROL OF THE CONTR	ged for minutes, minutes				
required per well purge spreadsheet. Turned well off at					
Field Measurements- Date: 11/ 15 /21 Start Time:					
Sample Time pH EC/MC Ten	np Well Observations				
See ART-Z field 1001	°C				
Sample Appearance:					
Finish Time:					
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl Total Bottles: 5					
DUP EC Reading QC mS/Cm pH					

		Well: ART-3
Project/Site: NERT Project - Her	nderson Nevada	Date(s): 11/ / /21
Sampling Team: Emily McGui	A 4 ==	
Sampling Method:	☑ Collected From Sample Port	☐ Hand Bailed due to well Location
	Sunny	
/		
☐ DTW ONLY		
Well Depth Information-	Date: 11/ 15 /21	Time: 1028
Total Well Depth(ft): NM	en, manually measured annually)	
Depth to Water(ft):	34.84	
	Manually Taken at Well	☐ Taken at Control Panel
Height of Water Column(ft):		
	, flowing at gpm. Purgereadsheet. Turned well off at	ed for minutes, minutes
Field Measurements-	Date: 11/15/21	Start Time:
Sample Time pH	PH mS/Cm	Well Observations °C
Sample Appearance:		
Finish Time:		
Analyses: CLO4 Bottles: 1btl	TDS/NO3 CR 1btl 1btl	CLO3 TDS/NO3/SO4/CL CRVI 1btl 1btl 1btl Total Bottles: 5
DUP EC Reading QC mS/Cm	рН	

	Well: ART-3A	
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ 5/21	
Sampling Team: Emily McGuire ME		
Sampling Method:	mple Port	Il Location
Weather Conditions: Sunny		
Weather conditions.		
□ DTW ONLY		
Well Depth Information- Date: 11/15/21	Time: 1079	
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)		
Depth to Water(ft): 41.7	1	
☐ Manually Taken a	t Well	
Height of Water Column(ft):		
□ Well Purge Required		
Turned pump on at, flowing at	gpm. Purged for minutes,	minutes
required per well purge spreadsheet. Turned well	ff at	
Field Measurements- Date: 11/15/21	Start Time: 1707	
Sample Time pH EC/MC	Temp Well Ob	servations
1708 7.13 pH 10.20 mS/Cn	75.8 °c	
Sample Appearance:		
Finish Time: (Z1)		
Analyses: CLO4 TDS/NO3 Bottles: 1btl 1btl	CR CLO3 TDS/NO3/SO4/C 1btl 1btl Total Bottles:	1btl
DUP EC Reading QC mS/Cm pH		

			F		
3			We	II: ART-4	
Project/Site: NERT F	Project - Henderso	n Nevada	Dat	re(s): 11/15 /21	
Sampling Team: Emily McGuire MB					
Sampling Method:	V	Collected From Sa	mple Port 🛛	Hand Bailed due to well Location	
Weather Conditions	S:	Sunny			
□ DTW ONLY					
Well Depth Inforr	mation- Date	e: 11/15/21	Tim	ne: 1031	
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ually measured annually)			
Depth to Water(ft):		38.46			
	V	Manually Taken a	t Well	Taken at Control Panel	
Height of Water Co	lumn(ft):				
☐ Well Purge Re	quired				
Turned pump o	n at, flo	wing at	gpm. Purged for	minutes, minutes	
required per w	ell purge spreadsh	eet. Turned well o	ff at	0 500 500 500 500	
Field Measureme	nts- Dat	e: 11/\S /21	Sta	rt Time: 1211	
Sample Time	pH	EC/MC	Temp	Well Observations	
1712	7.24 pH	7.29 ms/cm	25.7 °c		
Sample Appearance	e: C\	ear			
Finish Time:	12	15			
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5	
		1			
DUP EC Reading	QC				
mS/Cm					
i ma/cm	Hq				

			Well	I: ART-YA
Project/Site: NERT P	roject - Henderson I	Nevada	Date	e(s): 11/ (5 /21
Sampling Team: Er		MB		
Sampling Method:		llected From Sar	nple Port 🗆	Hand Bailed due to well Location
Weather Conditions		iny		
Weather conditions				
☐ DTW ONLY				
Well Depth Inforn	nation- Date:	11/16/21	Time	e: 103Z
Total Well Depth(ft)	: NM easurement taken, manuall	v measured annually)		
Depth to Water(ft):	- 0 (
Copen to Water (16).		anually Taken at	Well	Taken at Control Panel
Height of Water Col		■ 10 100 100 100 100 100 100 100 100 100		
	<u> </u>			-
☐ Well Purge Re	quired			
		ng at	gpm. Purged for	minutes, minutes
	ell purge spreadshee			
Tequired per in	p p			
Field Measureme	nts- Date:	11/ /21	Sta	rt Time:
Sample Time	рН	EC/MC	Temp	Well Observations
	рН	mS/Cm	°C	
Sample Appearance	e:			
Finish Time:				
Analyses:	(CLO4)	rds/no3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl /	1btl	1btl 1bt	1btl 1btl
	\bigcirc			
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			

				Δ = = Λ
			Well	: ART-7A
Project/Site: NERT P	roject - Henderson	Nevada	Date	(s): 11/ 5 /21
Sampling Team: Er		MB		
Sampling Method:		ollected From Sar	nple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions	: 5UN	iny		
☑ DTW ONLY				
Well Depth Inform	nation- Date:	11/15/21	Time	e: 1008
Total Well Depth(ft)				
	easurement taken, manual	30.42		
Depth to Water(ft):		Manually Taken at	Well	Taken at Control Panel
Height of Water Co		nandany randirat		
Treight of Water of	()			
☐ Well Purge Re	equired			
		ring at {	gpm. Purged for _	minutes, minutes
	ell purge spreadshe			
Field Measureme	nts- Date	: 11/ /21	Star	rt Time:
Sample Time	PH	EC/MC	Temp	Well Observations
	рН	mS/Cm	-e	
Sample Appearanc	e:			
Finish Time:				
			G193	TDS/NO3/SO4/CL CRVI
Analyses:	CLO4		CR CLO3	
Bottles:	1btl \	1btl	1btl 1btl	15.1
				Total Bottles: 5
				Total Bottles
DUP EC Reading	QC			
20. Le nedding	†			
mS/Cm	п рн			

Project/Site: NERT Project - Henderson Nevada Date(s): 11/15/21
Sampling Team: Emily McGuire MB
Sampling Method: 🗵 Collected From Sample Port 🗆 Hand Bailed due to well Location
Weather Conditions: らいハウム
□ DTW ONLY
Well Depth Information- Date: 11/ 15/21 Time: 1009
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)
Depth to Water(ft): 39.48
☐ Manually Taken at Well ☐ Taken at Control Panel
Height of Water Column(ft):
□ Well Purge Required
Turned pump on at, flowing at gpm. Purged for minutes, minutes
required per well purge spreadsheet. Turned well off at
Field Measurements- Date: 11/15/21 Start Time: 1719
Field Measurements- Date: 11/15/21 Start Time: 1719
Field Measurements- Date: 11/15/21 Start Time: 7 29 Sample Time pH EC/MC Temp Well Observations 17 7 0 7 25 8 39 75.3
Field Measurements- Date: 11/15/21 Start Time: 12/9 Sample Time pH EC/MC Temp Well Observations 1220 7.25 pH 8.39/ms/cm 25.3 °C
Field Measurements- Date: 11/15/21 Start Time: 1219 Sample Time pH EC/MC Temp Well Observations 1220 7-25 pH 8.39 rs/cm 25.3 °C Sample Appearance: C1637
Field Measurements- Date: 11/ 5 / 21
Field Measurements- Date: 11/ 15 /21 Start Time: 7 9 Sample Time
Field Measurements- Date: 11/ 5 /21

			Well	: ART-8	
Project/Site: NERT P	roject - Hendersor	n Nevada	Date	(s): 11/15 /21	
Sampling Team: En		MB			
Sampling Method:	V	Collected From Sar	mple Port 🗆	Hand Bailed due to well Loca	ation
Weather Conditions	50	inny			
		\circ			
☐ DTW ONLY		. 1		10.7(1	
Well Depth Inform		:: 11/ 5/21	Time	:: 1024	
Total Well Depth(ft)	: NM asurement taken, manu	ally measured annually)			
Depth to Water(ft):		35.8	0		
		Manually Taken at	: Well	Taken at Control Panel	
Height of Water Col	umn(ft):				
☐ Well Purge Re					
and the second s				minutes,	_ minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at		
F: 1130	not.	e: 11/ 5 /21	Star	t Time: 1715	
Field Measureme	pH	EC/MC	Temp	Well Observa	ations
Sample Time	рн	ECHIVIE	Temp		1
1	<u> </u>		2.0	-ART-BA COSING	1 broken
1216	7.10	14.11 ms/cm	Z4.9 °c	-ART-8A casing	,
	рН		Z4.9 ℃	andoffline. 8	,
Sample Appearance	рН	14.11 mS/Cm	24.9 °c	andoffline. 8	,
Sample Appearance	: Clear	14.11 ms/cm	Z4.9 °c	andoffline. 8	,
Sample Appearance	: Clear	mS/Cm		andoffline. 8 in its place	kunning
Sample Appearance Finish Time:	CLO4	TDS/NO3	CR CLO3	in its place	CRVI
Sample Appearance Finish Time:	EI CHEAT	mS/Cm		in its place	kunning
Sample Appearance Finish Time:	CLO4	TDS/NO3	CR CLO3	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl	CRVI
Sample Appearance Finish Time:	CLO4	TDS/NO3	CR CLO3	in its place	CRVI
Sample Appearance Finish Time: Analyses: Bottles:	CLO4 (1btl)	TDS/NO3	CR CLO3 1btl 1btl	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5	CRVI 1btl
Sample Appearance Finish Time:	CLO4	TDS/NO3 1btl	CR CLO3 1btl 1btl	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5	CRVI 1btl
Sample Appearance Finish Time: Analyses: Bottles:	CLO4 (Della CLO4)	TDS/NO3 1btl ARC C6	CR CLO3 1btl 1btl	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5 Total Bottles: 5 Total Bottles: 5	CRVI 1btl
Sample Appearance Finish Time: Analyses: Bottles: DUP EC Reading	CLO4 (Della CLO4)	TDS/NO3 1btl ARC C6	CR CLO3 1btl 1btl	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5 Total Bottles: 5 Total Bottles: 5	CRVI 1btl
Sample Appearance Finish Time: Analyses: Bottles: DUP EC Reading	CLO4 1btl QC pH	TDS/NO3 1btl ARC Co	CR CLO3 1btl 1btl T-8 70 Nected of analytic and analytic	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5 Total Bottles: 5 Total Bottles: 5 Total Bottles: 5 Total Bottles: 5	CRVI 1btl
Sample Appearance Finish Time: Analyses: Bottles: DUP EC Reading mS/Cm	CLO4 1btl QC pH	TDS/NO3 1btl AR Co	CR CLO3 1btl 1btl T-8 70 Nected of ne analy	andoffline. 8 in its place TDS/NO3/SO4/CL 1btl Total Bottles: 5 Total Bottles: 5 Total Bottles: 5 Total Bottles: 5 Total Bottles: 5	CRVI 1btl)

9	Well: ART-BA
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ \6 /21
Sampling Team: Emily McGuire MB	
Sampling Method: Collected From Sample	ole Port 🔲 Hand Bailed due to well Location
Weather Conditions: 500ng	
DTW ONLY	
Well Depth Information- Date: 11/ 5/21	Time: 1025
Total Well Depth(ft): NM	
('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 32.52	L. H
☐ Manually Taken at W	/ell □ Taken at Control Panel
Height of Water Column(ft):	
Turned pump on at, flowing at gpr required per well purge spreadsheet. Turned well off a	
regument per ment project	
Field Measurements- Date: 11/ /21	Start Time:
Sample Time pH EC/MC	Temp Well Observations
	ART-8 Running in
pH mS/Cm	°C 8A'S place.
Sample Appearance:	
Finish Time:	
Analyses: CLO4 TDS/NO3 CR	
Bottles: 1btl 1btl 1btl	btl 1btl 1btl 1btl
	Total Bottles: 5
DUP EC Reading QC	
mS/Cm pH	

			[
g	111112		Well	: ART-9
Project/Site: NERT P	roject - Henderso	n Nevada	Date	e(s): 11/ 15 /21
Sampling Team: Er	nily McGuire	MB		
Sampling Method:		Collected From Sar	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	:	Sunny	_	
)	
□ DTW ONLY				
Well Depth Inform	nation- Date	e: 11/\6/21	Time	e: 1011
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		- 36.09		
		Manually Taken at	Well	Taken at Control Panel
Height of Water Col	umn(ft):			
□ Well Purge Re	quired			
Turned pump or	n at, flov	wing at §	gpm. Purged for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well of	ff at	
Field Measuremen	nts- Date	: 11/ 15/21	Star	t Time: 1224
Sample Time	рН	EC/MC	Temp	Well Observations
17.25	136	147	75.0	
100	pH	mS/Cm	°C	
Sample Appearance		12		
Finish Time:	1229			
Analyses:	(CLO4)		CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1btl	1btl 1btl
				5
				Total Bottles: 5
DUP EC Reading	QC	AP-	T.a 10	21 11 15 - EB
2 47		//۲		
7.47 ms/cm	6.96 pH	Cel	lected t	or same analysis
75.1		bel	ore Mo	wing to next well.
		Time	1777	or some analysis owing to next well.
	>			
		PH: 9	.11 &	c: 0.02 °C: 73.2

g	Well: PC - 150
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/16/21
Sampling Team: Emily McGuire WB	
Sampling Method: ☐ Collected From Sample Por	t 🗆 Hand Bailed due to well Location
Weather Conditions: Sunny	
□ DTW ONLY	
Well Depth Information- Date: 11/15/21	Time: 1035
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 37.97	
	☐ Taken at Control Panel
Height of Water Column(ft):	
☐ Well Purge Required	
Turned pump on at, flowing at gpm. Pur	ged for minutes, minutes
required per well purge spreadsheet. Turned well off at	·
Field Measurements- Date: 11/ \(\frac{5}{21} \)	Start Time: 1229
Sample Time pH EC/MC Tel	mp Well Observations
1230 7.33 pH 6.45 75.	3 ·c - Bucket test 1.5gpm
Sample Appearance: Clear	, , , ,
Finish Time: 1234	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl 1btl	1btl / 1btl / 1btl
	Total Bottles: 5
DUP EC Reading QC	
mS/Cm pH	

9	Well: PC-99 RZ/R3
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ 5 /21
Sampling Team: Emily McGuire WB	
Sampling Method: Collected From Sample	Port Hand Bailed due to well Location
Weather Conditions: SUNNY	
□ DTW ONLY	
Well Depth Information- Date: 11/ 5/21	Time: 0808
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 12.65	
☐ Manually Taken at Wel	I ☑ Taken at Control Panel
Height of Water Column(ft):	
☐ Well Purge Required	
Turned pump on at, flowing at gpm.	Purged for minutes, minutes
required per well purge spreadsheet. Turned well off at	
Field Measurements- Date: 11/ 1/5 /21	Start Time: 1112
Sample Time pH EC/MC	Temp Well Observations
1113 6.30 pH 3.80 ms/cm	25.8 °c
Sample Appearance: Clear	
Finish Time:	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl 1btl	
	Total Bottles: 5
DUP EC Reading QC	
mS/Cm pH	

				
			We	11: PC-115R
Project/Site: NERT P	roject - Henderso	n Nevada	Dat	e(s): 11/ 5 /21
Sampling Team: Er	mily McGuire	MB		
Sampling Method:	V	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: (Sunny		
<u> </u>				
□ DTW ONLY				
Well Depth Inform	nation- Date	: 11/ 1/21	Tim	ne: 1040
Total Well Depth(ft)	: NM			
	easurement taken, manu	2		
Depth to Water(ft):	, –			
		Manually Taken a	t Well	Taken at Control Panel
Height of Water Col	umn(ft):			
□ Well Purge Re				
40 20				minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
		111 / 121	Cto	irt Time: 1115
Field Measureme			New York Control of the Control of t	Well Observations
Sample Time	pH	EC/MC	Temp	Well Observations
011)	6.61 pH	2.82 ms/cm	24.3	
Sample Appearance	<u> </u>		1	
Finish Time: \\\				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
		1		
DUP EC Reading	QC			
mS/Cm	pH			
1	II			

	Well: PC-116P
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ / /21
Sampling Team: Emily McGuire	
Sampling Method: Collected From Sample Po	ort Hand Bailed due to well Location
Weather Conditions: Sony	
□ DTW ONLY	
Well Depth Information- Date: 11/\5/21	Time: 1044
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 15.58	
☐ Manually Taken at Well	☐ Taken at Control Panel
Height of Water Column(ft):	
☐ Well Purge Required	
Turned pump on at, flowing at gpm. Pu	urged for minutes, minutes
required per well purge spreadsheet. Turned well off at	·
Field Measurements- Date: 11/ 15 /21	Start Time: [1] 9
Sample Time pH EC/MC To	emp Well Observations
1120 6.79 4.26 Z3	3.2 °c
Sample Appearance: Clear	
Finish Time: (122	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Analyses: CLO4 TDS/NO3 CR Bottles: 1btl 1btl 1btl	1btl / 1btl / 1btl/
20111031	
	Total Bottles: 5
	Total Battles.
DUP EC Reading QC	
mS/Cm pH	

			[
			Wel	11: PC-117
Project/Site: NERT F	roject - Hendersor	Nevada	Date	e(s): 11/\5 /21
Sampling Team: E	mily McGuire	MB	·	
Sampling Method:	☑ (Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	:: 5	unny		
		0		
□ DTW ONLY		1		
Well Depth Inforr	nation- Date	: 11/16/21	Tim	e: 1034
Total Well Depth(ft				
	easurement taken, manua			
Depth to Water(ft):	,(3.33	t Well	Taken at Control Panel
Hoight of Water Co		Manually Taken at	t wen	Taken at Control Faner
Height of Water Co	miniti):			
☐ Well Purge Re	anuired			
		ving at	anm Purged for	minutes, minutes
11 10	ell purge spreadshe			
required per w	en purge spreadsne	et. Turned Weir o		
Field Measureme	nts- Date	: 11/15 /21	Sta	rt Time: 1122
Sample Time	рН	EC/MC	Temp	Well Observations
1123	6.86 pH	3.85 ms/cm	23.0 %	
Sample Appearance	e: Clear			
Finish Time:	125			
Analyses:	(CLO4) (CR CLO3	
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			
	11			

<u> </u>	Well: PC-118
Project/Site: NERT Project - Henderson Nevada	Date(s): 11/ \(\sigma /21
Sampling Team: Emily McGuire MB	
Sampling Method:	☐ Hand Bailed due to well Location
Weather Conditions:	
□ DTW ONLY	
Well Depth Information- Date: 11/ 5 /21	Time: 1037
Total Well Depth(ft): NM	
('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft):	
☐ Manually Taken at Well	☐ Taken at Control Panel
Height of Water Column(ft):	
☐ Well Purge Required	
Turned pump on at, flowing at gpm. Purged	d for minutes, minutes
required per well purge spreadsheet. Turned well off at	·
Field Measurements- Date: 11/ /21	Start Time: 11725
Sample Time pH EC/MC Temp	Well Observations
1126 7.18 2.74 72.2	
pH Z mS/Cm CC	°C
Sample Appearance: CLEAV	
Finish Time: (130	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl 1btl	1btl 1btl 1btl
	Total Bottles: 5
DUP EC Reading QC	2021 11 15 - FD
mS/Cm pH (D)\ected	at same time for
	1.64 1-06 - 100/100
ed same and	19515 DETOILE MOVING
on to n-	ext well.
	ec: 2.73 °C: 27.7
PH: 7.10	CC L. TO

			r===		
			W	vell: P	C-119
Project/Site: NERT P	roject - Henderson	Nevada	D	ate(s): 1	1/ 15 /21
Sampling Team: Er		MB			
Sampling Method:	☑ Co	ollected From Sa	mple Port [☐ Hand B	ailed due to well Location
Weather Conditions	:	Sunny			
		O			
□ DTW ONLY					
Well Depth Inform	nation- Date:	11/15/21		ime: 104	18
Total Well Depth(ft)					
Depth to Water(ft):	easurement taken, manuall	og			
Deptil to Water(it).	,	1anually Taken a	t Well	☐ Taken a	at Control Panel
Height of Water Co		, and the second			
☐ Well Purge Re	equired		and the second second		
Turned pump o	on at, flow	ing at	gpm. Purged fo	or	minutes, minutes
required per w	ell purge spreadshe	et. Turned well o	off at	_•	
Field Measureme	nts- Date:	11/ 19/21	Service Service S	Start Time:	
Sample Time	рН	EC/MC	Temp		Well Observations
1131	7.13	7.44	119	-	
	. bull	mS/Cm		°C	
Sample Appearance	e: <u>C</u>	1691		_	
Finish Time:	1155)			
	No.		-		
Analysası	CLO4	TDS/NO3	CR CLC	O3 T	DS/NO3/SO4/CL CRVI
Analyses: Bottles:	1btl)	1btl		lbtl /	1btl / 1btl/
2000.00				\nearrow	
				To	tal Bottles: 5
		100 N	10 0		= 11 15 -EB
DUP EC Reading	QC	PC-1	19 20	121	6 11 15 - EB
		Collec	ted f	àr 5	ame analysis
mS/Cm	рН	lance		<i>(</i> !	iome analysis to next well.
		voctor	~ VVIO	nng	TO viext well.
°C					
		DK 1301	1 20:11.	110	: 13.6 Time: 1133

			-		
			Wel	III: PC-120	
Project/Site: NERT Project - Henderson Nevada				te(s): 11/15/21	
Sampling Team: Er	mily McGuire	MB			
Sampling Method:	☑ (Collected From Sai	mple Port 🗆	Hand Bailed due to well Location	
Weather Conditions	: 4	Sunny			
		O			
□ DTW ONLY					
Well Depth Inforn	nation- Date	: 11/ 15/21	Tim	ne: 1051	
Total Well Depth(ft)		the managered angually)			
Depth to Water(ft):	easurement taken, manua	1 S			
Deptil to Water(it).		Nanually Taken at	Well	Taken at Control Panel	
Height of Water Col		vianiaun, runan			
ricigite of video.					
☐ Well Purge Re	quired				
		ving at	gpm. Purged for	minutes, minutes	
	ell purge spreadshe				
Field Measureme	nts- Date	: 11/ 5/21	Sta	art Time: 1136	
Sample Time	рН	EC/MC	Temp	Well Observations	
1137	7.V pH	1.41 ms/cm	21.1 ·c	C	
Sample Appearance	e:	C/63L			
Finish Time:	1140				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3		
				Total Bottles: 5	
DUP EC Reading	QC				
2.43 _{mS/Cm}	6.98 pH				

21.2 °c

			Well	: PC-121
Project/Site: NERT P	Project - Henderson	Nevada	Date	e(s): 11/ 15 /21
Sampling Team: Er		MB		
Sampling Method:		ollected From Sar	mple Port 🗆 I	Hand Bailed due to well Location
Weather Conditions		unny		
		0		
□ DTW ONLY				
Well Depth Inform	nation- Date	11/ 5 /21	Time	e: 1055
Total Well Depth(ft)				
	easurement taken, manua	11y measured annually) 4.43		
Depth to Water(ft):	/	イ. フ <i>ン</i> Manually Taken at	Well	Taken at Control Panel
Height of Water Co	NAME OF TAXABLE PARTY.	vialidally rakellat	77011	
Treight of Water Co				
☐ Well Purge Re	equired			
		ving at	gpm. Purged for	minutes, minutes
	ell purge spreadshe			
<u> </u>				
Field Measureme	nts- Date	: 11/ 15/21	Star	t Time: 1140
Sample Time	рН	EC/MC	Temp	Well Observations
1141	7.22	1.41	112	
1(11	рН	mS/Cm	°C	
Sample Appearance		-		
Finish Time:	1143			
Analyses:	CLO4		CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
Bottles:	1btl \	1btl	1btl 1btl	1000
				Total Bottles: 5
				Total Bottles:
DUP EC Reading	QC			
20. 20				
mS/Cm	рН			

			Wel	: PC-133
Decided (City NECT C	Juniost Handons	n Novada		e(s): 11/ 5 /21
Project/Site: NERT P		MB	Date	(5). 11/ 5 /21
Sampling Team: Er			mple Port 🗆	Hand Bailed due to well Location
Sampling Method:		Collected From Sai	mpie Port 🗆	Halld Balled due to Well Location
Weather Conditions	: :	<u>sunny</u>		
□ DTW ONLY				
Well Depth Inforn	nation- Date	:: 11/ 6 /21 7	ţ Tim	e: 115Z
Total Well Depth(ft)	: NM easurement taken, manus	ally measured annually)		
Depth to Water(ft):		. 28.5	9	
	<u> </u>	Manually Taken at	: Well	Taken at Control Panel
Height of Water Col	umn(ft):			
☐ Well Purge Re	quired			
Turned pump o	n at, flow	wing at	gpm. Purged for ₋	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Date		Star	t Time: 1143
Sample Time	рН	EC/MC	Temp	Well Observations
1144	211	101	410	*Unable to collect DTW,
	1.11 bH	L.ON mS/Cm	11.9 °c	
Sample Appearance			71,9 °c	casing shifted. Informed
Sample Appearance Finish Time:		C. VI ms/cm	71,9 °c	casing shifted. Informed
	2:	CHEST	CR CLO3 1btl 1btl	Casing shifted. Informed maintenance. fixed and collected 11/16/21 TDS/NO3/SO4/CL CRVI
Finish Time: Analyses:	CL04	TDS/NO3	CR CLO3	Casing shifted. Informed maintenance. fixed and collected 11/16/21 TDS/NO3/SO4/CL CRVI

		well: E1-1				
Project/Site: NERT Proj	n Nevada		Date(s): 11/3/	21		
Sampling Team: Emily	/ McGuire					
Sampling Method: Collected From Sample Port Hand Bailed due to well Location						
Weather Conditions:	Sunny					
DTW ONLY						
Well Depth Informat	tion- Date	e: 11/3/21		Time: 11:19		
Total Well Depth(ft): ('NM') - No measu		ally measured annually)				
Depth to Water(ft):		Manually Taken at	: Well	Taken at (Control Panel	
Height of Water Colum	nn(ft):					
Well Purge Requ						
Turned pump on a				for	minutes,	_ minutes
required per well	purge spreadsh	eet. Turned well of	ff at			
required per well				<u> </u>		
Field Measurements	s- Date	e: 11/3/21		Start Time:	11:30	
	s- Date	e: 11/3/21 EC/MC	Temp	Start Time:	I1:30 Well Observ	vations
Field Measurements Sample Time		EC/MC 5.08	Temp 26.7	Start Time:		vations
Field Measurements Sample Time	рН 7.26 рН	EC/MC 5.08	Temp 26.7	Start Time:		vations
Field Measurements Sample Time 11:31 7	рН 7.26 рН	EC/MC 5.08	Temp 26.7	Start Time:		vations
Field Measurements Sample Time 11:31 7 Sample Appearance: Finish Time: 11:37 Analyses:	pH 7.26 pH Clear	5.08 mS/Cm	Temp 26.7	°C TDS	Well Observ	CRVI
Field Measurements Sample Time 11:31 Sample Appearance: Finish Time: 11:37	pH 7.26 pH Clear	5.08 mS/Cm	Temp 26.7	°C	Well Observ	
Field Measurements Sample Time 11:31 7 Sample Appearance: Finish Time: 11:37 Analyses:	pH 7.26 pH Clear	5.08 mS/Cm	Temp 26.7	O3 TDS	Well Observ	CRVI

			W	_{ell:} E1-2
Project/Site: NERT I	Project - Henderso	n Nevada	Da	ate(s): 11/3/21
Sampling Team: E	mily McGuire			
Sampling Method:	V	Collected From Sa	mple Port 🛛	Hand Bailed due to well Location
Weather Condition	s: Sunny			V
DTW ONLY				
Well Depth Inform	mation- Date	e: 11/3/21	Ti	me: 11:21
Total Well Depth(ft ('NM') - No m): NM neasurement taken, manu	ually measured annually)		
Depth to Water(ft):		Manually Taken at	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	equired			
11				r minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
[=: 1.1		11/0/01	CI	art Time: 11:44
Field Measureme		e: 11/3/21 EC/MC	Temp	wart Time: 11:44 Well Observations
Sample Time	pН	EC/IVIC	Temp	Well Observations
11:45	7.12 pH	6.77 mS/Cm	27.3	С
Sample Appearance	e: Clear			
Finish Time: 11:51				
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3 1btl	CR CLO	
				Total Bottles: 5

EC: 6.77 C: 27.4

29			Well	E1-3		
Project/Site: NERT I	Project - Henderso	n Nevada	Date	e(s): 11/3/21		
Sampling Team: Emily McGuire						
Sampling Method:	V	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location		
Weather Conditions	: Sunny					
DTW ONLY						
Well Depth Inforr	nation- Date	e: 11/3/21	Time	e: 11:24		
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ally measured annually)				
Depth to Water(ft):	Depth to Water(ft): 43.90 Manually Taken at Well Taken at Control Panel					
Height of Water Co	lumn(ft):					
Well Purge Re		wing at	gpm. Purged for	minutes, minutes		
		eet. Turned well o				
	, , ,					
Field Measureme	nts- Dat	e: 11/3/21	Star	t Time: 11:55		
Sample Time	рН	EC/MC	Temp	Well Observations		
11:56	7.02 pH	6.02 mS/Cm	27.9 °c			
Sample Appearance	e: Clear					
Finish Time:						
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl						
				Total Bottles: 5		
DUP EC Reading mS/Cm	QC pH	towns and the same		ysis before moving on to next well.		

C: 23.5

			W	_{/ell:} E2-1
Project/Site: NERT F	Project - Henderso	ate(s): 11/3/21		
Sampling Team: E	mily McGuire		'l	
Sampling Method:	7	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	e: 11/3/21	Ti	me: 12:34
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ally measured annually)		~
Depth to Water(ft):		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	quired			
1				r minutes, minutes
required per we	eli purge spreadsn	eet. Turned well o	π at	
Field Measureme	nts- Date	e: 11/3/21	St	art Time: 12:35
Sample Time	рН	EC/MC	Temp	Well Observations
12:36	7.25 pH	3.78 mS/Cm	25.3	PC
Sample Appearance	: Clear w/Floa	ties		
Finish Time: 12:38				
Analyses: Bottles:	CLO4	TDS/NO3	CR CLO	
				Total Bottles: 5
DUP EC Reading	QC 6.97			

DUP EC Reading	QC
3.91 mS/Cm	6.97 _{pH}
26.4 °C	

29				vell: E2-2
Project/Site: NERT	Project - Henders	on Nevada	Pate(s): 11/3/21	
Sampling Team: E	mily McGuire		*	
Sampling Method:	7	Collected From Sa	ample Port	Hand Bailed due to well Location
Weather Condition	s: Sunny			
DTW ONLY				
Well Depth Infor	mation- Dat	e: 11/3/21	T	ime: 12:27
Total Well Depth(ft ('NM') - No m	0. (5.00.5.5.5.5)	ually measured annually)		
Depth to Water(ft):		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co				—
Well Purge Re				
1		wing at eet. Turned well o		r minutes, minutes
Field Measureme	nts- Dat	e: 11/3/21	St	tart Time: 12:29
Sample Time	рН	EC/MC	Temp	Well Observations
12:30	7.39 _{pH}	4.24 mS/Cm	24.9	°C
Sample Appearance	: Clear			
Finish Time: 12:32				
Analyses: Bottles:	CLO4		CR CLO	
bottles.	1btl (1btl	1btl 1b	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			

29				Well: E2-3				
Project/Site: NERT	Project - Henders	on Nevada	Date(s): 11/3/21					
Sampling Team: E	Emily McGuire							
Sampling Method:	7	Collected From Sa	☐ Hand Bailed due to well Location					
Weather Condition	s: Sunny							
DTW ONLY								
Well Depth Information- Date: 11/3/21 Time: 12:19								
Total Well Depth(ft ('NM') - No n	t): NM neasurement taken, man	ually measured annually)						
Depth to Water(ft): 39.30 Manually Taken at Well Taken at Control Panel								
Height of Water Column(ft):								
Well Purge Re	equired							
50 558		wing at eet. Turned well o		d for minutes, minutes				
required per w	en purge spreausi	leet. Turried well o	ııı at	<u> </u>				
Field Measureme	nts- Dat	e: 11/3/21		Start Time: 12:21				
Sample Time	рН	EC/MC	Temp	Well Observations				
12:22	7.31 pH	5.35 mS/Cm	25.2	°C				
Sample Appearance: Clear								
Finish Time: 12:26								
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI								
Bottles:	1btl	1btl	1btl	1btl 1btl				
				Total Bottles: 5				
DUP EC Reading	QC							
mS/Cm	рН							

			F						
29			ı	Well:	E2-4				
Project/Site: NERT Project - Henderson Nevada					Date(s): 11/3/21				
Sampling Team: Emily McGuire									
Sampling Method:	V	☐ Hai	nd Bailed due to well Location						
Weather Conditions: Sunny									
DTW ONLY									
Well Depth Information- Date: 11/3/21 Time: 12:12									
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)									
Depth to Water(ft): 43.09									
─────────────────────────────────────									
Well Purge Required									
Turned pump on at, flowing at gpm. Purged for minutes, minutes									
required per well purge spreadsheet. Turned well off at									
Field Measurements- Date: 11/3/21 Start Time: 12:14									
Sample Time	рН	EC/MC	Temp	Tare in	Well Observations				
12:15	7.26 pH	5.79 mS/Cm	25.7	°C					
Sample Appearance: Clear									
Finish Time: 12:18									
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl									
	Total Bottles: 5								
DUP EC Reading	QC								
5.82 mS/Cm	6.98 pH								

25.6

WATER SAMPLING FIELD LOG

			Г	
2.9				Well: E2-5
Project/Site: NERT		on Nevada		Date(s): 11/3/21
Sampling Team: E				
Sampling Method:		Collected From Sa	ample Port	Hand Bailed due to well Location
Weather Condition	s: Sunny			
DTW ONLY				
Well Depth Infor	mation- Dat	e: 11/3/21	Ī	ime: 12:03
Total Well Depth(ft ('NM') - No n	100 100 100 100 100 100 100 100 100 100	ually measured annually)		
Depth to Water(ft):		l		
Height of Water Co		Manually Taken a	t Well L	Taken at Control Panel
Well Purge Re	equired			. *
Turned pump o	on at, flo	wing at	gpm. Purged fo	or minutes, minutes
V907 1907		eet. Turned well o		
Field Measureme	nts- Dat	e: 11/3/21	Si	tart Time: 12:05
Sample Time	pH	EC/MC	Temp	Well Observations
12:06	7.07 pH	6.43 mS/Cm	27.9	°C
Sample Appearance	: Clear			
Finish Time: 12:11				
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3	CR CLO	
				Total Bottles: 5
DUP EC Reading	QC			
	~~	91		
mS/Cm	рН			



ETI Daily Sampling Log Sheet

Date: 11	3/21	Well Field(s): AP5	Start Time:	105%	Finish Time: 1211
Time In	Time Out	Name	Signature	Со	mpany/Purpose
1058	1211	E. mcquire	E.M.S.	ETI	Sempling
					, 0
Time			Observation		
1058	Pre	Samplina			
1109	Calil	sampling orated m	eter		
1119	Star	ted DTW'	sisampling	2	
1211	Con	ted DTW'	TW'S Sam	bling	
				0	
			S 11/1	to	•

DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/3/21 Com	pleted By: Smily McGuire
Pre Sampling Safety Meeting-	Time: 1058 0
Wells to be sampled today: AP5	
Dangers and hazards with wells to be s	sampled: Hex
Name: E. McGuire	Signature: 5. McJ:
Name:	Signature:
Sampling Equipment Inspection-	Time: 1101
Items To Be Checked	Issues Found N/A
□ Coolers	
Forms	
□ pH probe (calibrated)	
☐ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 1105
Items To Be Checked	Issues Found N/A 🖼
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
□ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
□ Battery Light	



Date: 11 3 2

HANNA	Time/Analyst	
Known Value		
Temp Comp Value	25	1113/2m
Calibration Value	pration Value 25.5	
Standard Temp	1295	
Changed Bu	ffers Yes	

Н	Time/Analyst		
Known Value	7.0	8.0	
Calibration Value	7.01	7.97	1109/2m
Buffer Temp	25.0	25.3	
Char	ged Buffers Y	es 🗹	

	Dup	licate EC Read	ing(s)	
Well	2nd EC	2nd Temp		
E2-4	5.79	25.7	5.82	25.6

QC's
6.98
Closing QC
6.97

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:



ETI Daily Sampling Log Sheet

Date: \\	4/21	Well Field(s): いん	- W+	m	Start Time:	0945	Finish Time: 1219
Time In	Time Out	Name		_	ature		mpany/Purpose
0945	1219	9. Mcguire		9. M.	12.	ETI)	Sampling
							0
			_				
			_				
			_		***		
Time				Obse	ervation		
0945	Pre	sampling	P	rep			
1000	Calil	orated A	hete				
1012		F DTW'S					
1101	Sam	ipled Wa	15+	16	JF		
1140	Sam	oled Mid	dle	IW	F Whi	re coll	ecting DTW's
1219	Finis	hed Sem	plin	19			<i>U</i>
					4 55		
		- T		-c		6.	

DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/4/21 Cor	mpleted By: S. McQuire
Pre Sampling Safety Meeting-	Time: 0945
Wells to be sampled today: $1 \omega f$	- west Middle
Dangers and hazards with wells to be	sampled: Hex
Name: & McGuire	Signature: E. W. Z.
Name:	Signature:
Caralia - Fariana - Alexandia	Time: 0060
Sampling Equipment Inspection-	Time: 0950
Items To Be Checked	Issues Found N/A 🗹
Coolers	
Forms	
pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
☐ Water	
□ PPE	
Vehicle Inspection-	Time: 0955
Items To Be Checked	Issues Found N/A ☑
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
☐ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
☐ Battery Light	



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 11 4 21

HANNA	Time/Analyst		
Known Value	1288		
Temp Comp Value	25		
Calibration Value	1003		
Standard Temp	24.8	- gn	
Changed Bu	iffers Yes 🗹		

F	Time/Analyst		
Known Value	7.0	8.0	
Calibration Value	7.01	6.97	1000
Buffer Temp	15.5	25.4	5 W
Char	nged Buffers Y	es 🗹	

	Duplicate EC Reading(s)					
Well 1st EC 1st Temp 2nd EC 2nd Temp						
I-AR	6.06	29.4	6.05	29.8		
I-N	7.86	78.4	7.66	25.2		

	QC's	
	6.95	
	7.04	
(Closing Q	С
	6.99	٦

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: $\underline{\text{WD790}}$ DTW Meter Geotech Water Level Meter, Serial No: $\underline{\text{7053}}$

Verified By:



ETI Daily Sampling Log Sheet

Date: 11	10/21	Well Field(s): IWF	East	Start Time:	1035	Finish Time: 1143
Time In	Time Out	Name	Sign	ature	Со	mpany/Purpose
1035	1143	8. McQuire	E.M.	2:	ETI	Samplina
						. 0
			-			
Time				ervation	189	
1035	Pre	sampling p	rep			
1046	Calil	orate mete	<u> </u>			
1102	Sam	prate meter pred East pleted so	IWF	WIDTL	Jis	
1143	Com	pleted 50	mplin	19		
				11	1	
	JL	Completed	Bv:	1/1/2	12:	

DAILY SAMPLING RIG INSPECTION SHEET

Date: UID ZI C	ompleted By: Smily Mcquire
Pre Sampling Safety Meeting-	Time: 1035
Wells to be sampled today:	nf East
Dangers and hazards with wells to I	. \
Name: 8. McGuire	Signature: Q.W.
Name:	Signature:
Sampling Equipment Inspection	I- Time: 1037
Items To Be Checked	Issues Found N/A
□ Coolers	
Forms	
☐ pH probe (calibrated)	
☐ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 1040
Items To Be Checked	Issues Found N/A
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
□ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
☐ Battery Light	



Date: 11/10/21

HANNA	Time/Analyst	
Known Value	1288	
Temp Comp Value	25	1049
Calibration Value 297		10 Sm
Standard Temp	25.1	
Changed Bu	ffers Yes 🗹	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	
Calibration Value	7.01	7.97	1046
Buffer Temp	75.3	25.1	
Char	nged Buffers	Yes 🗹	

	Dup	licate EC Read	ing(s)			
Well 1st EC 1st Temp 2nd EC 2nd Temp						
I-T	10.58	29.4	10.58	29.5		

QC's	
7.03	
	-
Closing QC	
6.95	

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No:7053

Verified By: 9 Mc / _ ·



ETI Daily Sampling Log Sheet

Date:	15/21	Well Field(s): APT 4	PC	Start Time: (0935	Finish Time: 1234	
Time In	Time Out	Name	Signa	ature	Co	mpany/Purpose	
0935	1234	E. McGuire	E. M. P.	2.		Sampling	
0935	1234	M. Bolton	MTK		GTI15	Dampling	
						U	
Time			Obse	ervation			
0935	Pre	sampling P	rep				
		rated that					
1008	Athe	ns DTW's t	alten				
1634		DTy's taken	en				
1113		Sampled Seep					
1159		ipled Athen					
1234	Com	Completed sampling					
				. 1			
<u>L</u>	1	Completed	By: 7.	Wil	2.		

DAILY SAMPLING RIG INSPECTION SHEET

Date: 11 15 21 C	ompleted By:
Pre Sampling Safety Meeting-	Time: 0935
Wells to be sampled today: Atv	nens seep
Dangers and hazards with wells to b	be sampled: Vaulta Steps
Name: 9. McGuire	Signature: 2. M
Name: M. Bolton	Signature: MAHS
Sampling Equipment Inspection	1- Time: 0937-
Items To Be Checked	Issues Found N/A
□ Coolers	
□ Forms	
□ pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 0939
Items To Be Checked	Issues Found N/A 🗹
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
□ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
☐ Battery Light	



Date: 11/15/21

HANNA	Time/Analyst	
Known Value	1288	. 9
Temp Comp Value	25	0942
Calibration Value 1297		5M
Standard Temp	25.2	
Changed Bu	ıffers Yes ☑	

· ·	Time/Analyst		
Known Value	7.0	8.0	
Calibration Value	0945		
Buffer Temp	76.2	25.1	Sm
Char	nged Buffers Y	es 🗹	ν·

Duplicate EC Reading(s)					
Well 1st EC 1st Temp 2nd EC 2nd Ter					
PC-120	2.41	21.1	2.43	21.2	
ART-9	7.47	15.0	7.47	25.1	

	QC's
Γ	6.98
-	6.96
	Closing QC
	6.96

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No:7053



ETI Daily Sampling Log Sheet

Date:	17/21	Well Field(s): \WF-{	Borman Start Time:	0935 Finish Time: 1131					
Time In	Time Out		Signature	Company/Purpose					
0935	1131		2. M./2:	ETI Sampling					
Time 0935	Pre	sampling	Observation						
1034	Lef	Calibrated Meter Left for Bormon							
1055	Star	ted some	olina						
1131	Completed Sampling								
		Completed	Bv: 9. Mc/	·					

DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/17/21	Completed By: 9 mily McGuire
Pre Sampling Safety Meeting	g- Time: 0935
Wells to be sampled today:	Borman IWF
Dangers and hazards with wells	
Name: E. McGuire	Signature: Q. M. Signature:
Name:	Signature:
Sampling Equipment Inspec	tion- Time: 0940
Items To Be Checked	Issues Found N/A
☐ Coolers	
☐ Forms	
☐ pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 0945
Items To Be Checked	Issues Found N/A 🖸
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
☐ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
□ Patton/Light	



Date: 111771

HANNA	Time/Analyst	
Known Value	1288	
Temp Comp Value	25	0956
Calibration Value	- Gm	
Standard Temp	25.2	W
Changed B	uffers Yes 🗹	

	IANNA FIELD pH METER		Time/Analyst
Known Value	7.0	8.0	4
Calibration Value	4.01	8.02	0954,
Buffer Temp	15.3	25.4	/gm
Char	nged Buffers	Yes 🔽	

	Dup	licate EC Read	ing(s)				
Well 1st EC 1st Temp 2nd EC 2nd Temp							
I-J	5.98	23.5	5.99	23.6			
				 			

QC's
7.02
Closing QC
7.03

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No: 7053



TECHNICAL MEMORANDUM

To:	Chris Ritchie and Chris Stubbs, Ramboll
Cc:	Steve Clough, Nevada Environmental Response Trust Mia Sosa, John Crowther, Craig Knox, Emeryville Lab Data; Ramboll David Bohmann, Tetra Tech
From:	Jesse Bunkers and James Roman
Date:	November 30, 2021
Subject:	November 2021 Monthly Las Vegas Wash Surface Water Sampling Nevada Environmental Response Trust Site Henderson, Nevada

MONTHLY SURFACE WATER SAMPLING ACTIVITIES

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the November 2021 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The ten surface water sample locations described in the *Remedial Performance Groundwater Sampling and Analysis Plan (SAP)*, *Revision 1*, dated March 2020, are shown on Figure 1. Tetra Tech collected 30 independent samples from ten sample locations within the Las Vegas Wash (the Wash) and a channel flowing into the Wash (C-1 Channel) on November 15 and 16, 2021. Sample collection within the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximate midwater depth using the discrete hand-grab sample technique described in the SAP. During sampling of the C-1 Channel, the channel width, depth of water, and flow rate were measured and documented for each sample location in the surface water sampling logs.

Samples were stored in coolers at 4°C and transferred under chain-of-custody documentation to Eurofins TestAmerica (ETA) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids using EPA Methods 314.0, 300.1B, and SM 2540C, respectively. The ETA Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the November 2021 sampling event are as follows:

I

 Field personnel were not able to sample the designated location for LVW6.6-3 due to the presence of a sandbar. The sandbar extended above the water surface such that no surface water was present at the designated sample location. Due to the presence of the sandbar, and in order to uniformly space the

Tel 702-854-2295 tetratech.com

LVW6.6 sample locations across the LVW6.6 transect, alternative sample locations were selected for sample locations LVW6.6-1, LVW6.6-2, and LVW6.6-3. The samples were collected as close as possible to the original sample locations. The adjusted sample locations were recorded with a handheld GPS as listed below:

- o LVW6.6-1: 36.08902° N, -114.99316° E
- o LVW6.6-2: 36.08916° N, -114.99318° E
- o LVW6.6-3: 36.08927° N, -114.99319° E
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.

Surface water sampling logs are provided as Attachment A. Field investigation daily log and calibration certification forms are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared the November 2021 Monthly Las Vegas Wash Surface Water Sampling Summary

David S. Wilson, CEM

Principal Engineer Tetra Tech, Inc.

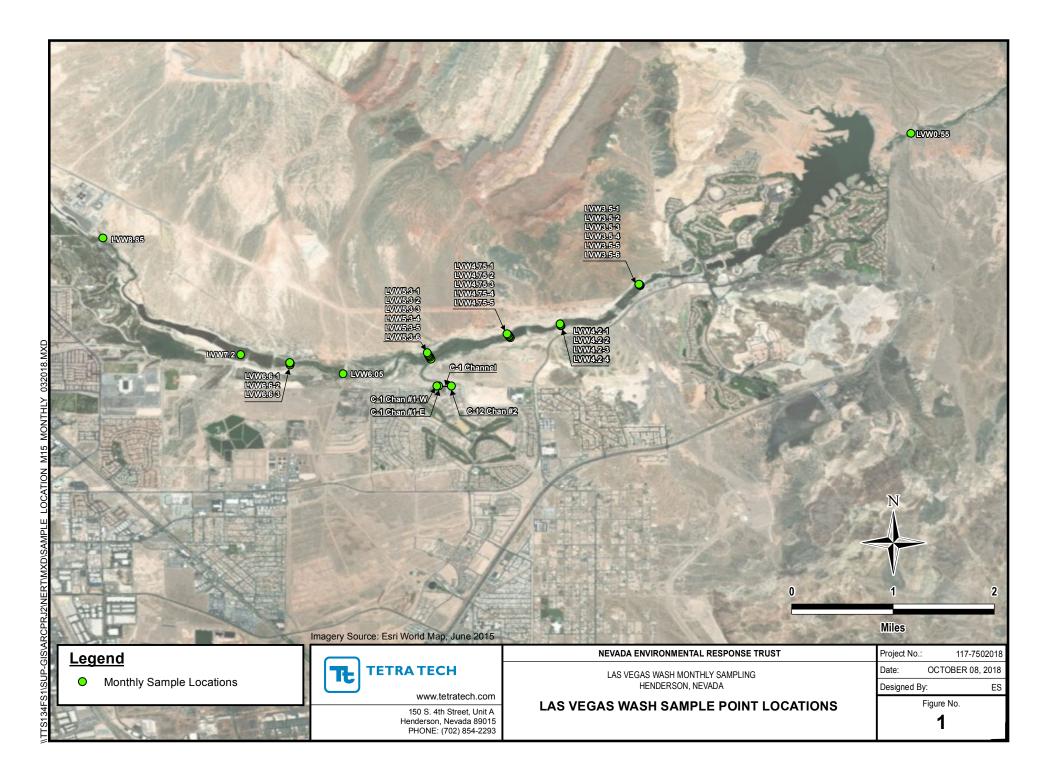
Nevada CEM Certificate Number: 2385

Nevada CEM Expiration Date: September 19, 2022

11/30/2021

Date

Figure



Attachment A Surface Water Sampling Logs

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SURFACE WATER SAMPLING LOG

Page 1 of 1

NERT. Henderson, NV Task Name: LVW Surface Water Sampling Task Manager: Jesse Bunkers Task No: M15 Date: 11/15/2021 Sampling Method: Dipper Bottle Field Samplers: J. Bunkers / JP Masters Equipment Decon, Method: DI Rinse Depth of Depth of рΗ Conductivity DO ORP **Turbidity** Temp. Location ID Time Color Odor (NTU) Water (ft) Sample (ft) (°C) (mS/cm) (pH Units) (mg/L) (mV) 8:45 LVW 0.55 1.8 0.9 19.6 8.11 1.915 8.87 123.3 3.0 Clear None 9:30 LVW 3.5-1 2.4 1.2 19.7 7.86 1.956 7.93 137.3 3.2 Clear None 9:30 LVW 3.5-2 2.0 1.0 20.9 7.84 1.920 8.06 137.1 1.8 Clear None 9:30 LVW 3.5-3 3.0 1.5 20.6 7.86 1.912 8.11 140.3 1.3 Clear None 9:30 LVW 3.5-4 3.0 1.5 20.8 7.86 1.916 8.13 138.0 0.7 Clear None 9:30 LVW 3.5-5 3.6 1.8 21.4 7.86 1.911 8.07 135.6 0.6 Clear None 9:30 LVW 3.5-6 3.4 1.7 21.0 7.86 1.909 8.09 137.8 0.2 Clear None 11:00 LVW 4.2-1 4.8 2.4 21.4 7.93 1.947 8.17 127.1 1.6 Clear None 11:00 LVW 4.2-2 6.4 3.2 21.6 7.94 1.933 8.24 127.1 1.6 Clear None 11:00 LVW 4.2-3 7.0 3.5 21.5 7.96 1.918 8.33 126.4 1.1 Clear None 8.24 2.3 11:00 LVW 4.2-4 3.6 1.8 21.3 7.96 1.898 126.4 Clear None 12:00 LVW 4.75-1 3.2 1.6 22.2 8.12 2.007 8.30 122.1 0.8 Clear None 12:00 LVW 4.75-2 2.8 1.4 22.2 8.11 2.003 8.30 122.8 0.6 Clear None 12:00 LVW 4.75-3 2.2 1.1 22.5 8.14 1.954 8.40 122.9 0.6 Clear None 12:00 LVW 4.75-4 1.8 0.9 22.7 8.15 1.953 8.47 122.5 0.9 Clear None 12:00 1.2 0.2 LVW 4.75-5 2.4 23.3 8.15 1.934 8.59 122.4 Clear None 13:15 LVW 5.3-1 5.2 2.6 23.5 8.25 2.000 8.24 108.2 0.9 Clear None 13:15 LVW 5.3-2 2.0 1.0 23.3 8.22 1.975 8.26 114.7 0.2 Clear None 13:15 LVW 5.3-3 2.2 1.1 23.6 8.22 1.970 8.32 113.6 0.3 Clear None 13:15 LVW 5.3-4 1.2 0.6 23.5 8.23 1.964 8.31 113.5 8.0 Clear None 13:15 23.7 8.20 114.7 0.2 Clear LVW 5.3-5 1.4 0.7 1.966 8.16 None 1.0 0.5 22.7 8.19 1.972 0.3 13:15 LVW 5.3-6 8.14 115.6 Clear None QA/QC Samples/ID: LVW0.55-0.9-20211115-FD QA/QC Samples/ID: LVW0.55-20211115-FB QA/QC Samples/ID: QA/QC Sample Time: 8:45 QA/QC Sample Time: 8:45 QA/QC Sample Time: Flow (L/s): Flow (L/s): Flow (L/s): No Flow C1-E C1-W C-12 Width (ft): Depth (ft): Width (ft): Depth (ft): Width (ft): Depth (ft): Observations/Comments:

Tt .	TETRATECH SURFACE WATER SAMPLING LOG Page 1 of 1 NERT, Henderson, NV										
Task Name: L	LVW Surface Water Sampling		Task Manager: Jesse Bunkers		Task No: M15		Date: 11/16/2021				
Field Sample	Field Samplers: J. Bunkers / JP Masters			od: Dipper Bottle		Equipment Decon.	Method: DI Rin	se			
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
8:30	C1-E	0.0	0.0	20.8	7.57	4.323	7.92	199.6	0.7	Clear	None
8:30	C1-W	0.0	0.0	21.3	7.56	4.384	8.12	203.5	0.8	Clear	None
9:45	LVW 6.05	1.6	0.8	19.7	8.05	1.857	8.78	150.8	1.6	Clear	None
10:15	LVW 6.6-1	2.0	1.0	20.5	7.91	1.848	8.13	148.0	0.9	Clear	None
10:15	LVW 6.6-2	5.6	2.8	21.6	7.89	1.760	8.33	141.0	2.0	Clear	None
10:15	LVW 6.6-3	5.4	2.7	21.5	7.96	1.678	8.05	141.2	1.9	Clear	None
10:45	LVW 7.2	2.0	1.0	22.5	8.16	1.595	9.04	136.0	0.2	Clear	None
11:45	LVW 8.85	2.2	1.1	24.7	7.76	1.514	7.95	136.6	0.2	Clear	None
QA/QC Sa	QA/QC Samples/ID: LVW6.05-0.8-20211116-FD			QA/QC Samples/ID: LVW6.05-20211116-FB			QA/QC Samples/ID: LVW7.2-1.0-20211116-FD				
QA/QC Sa	QA/QC Sample Time: 9:45			QA/QC Sample Time: 9:45			QA/QC Sample Time: 10:45				
C1-E	Flow (L/s): 1.0		C1-W	Flow (L/s): 4.4			C-12	Flow (L/s): N	lo Flow		
	Width (ft): 0.66 Depth ((ft): 0.05	0.44	Width (ft): 0.9	5 Depth (fl	:): <u>0.09</u>	0.12	Width (ft):	Depth	(ft):	

Observations/Comments:

Attachment B Field Investigation Daily Logs

Tt	TETRA TECH
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FIELD INVESTIGATION DAILY LOG

Page 1 of 1

NERT, Henderson, NV

Fask Name: LVW Surface Water Sampling	Task Manager: Jesse Bunkers	Date: 11/15/21				
Field Personnel: JB, JPM	Task No: M15					
ocation: Las Vegas Wash Reported by: J. 13un kers						
Weather Conditions: 78°F, Surum, Calm						
Total Vehicle Mileage: 25						
Task Visitors / Subcontractors:						
Matters of Safety:						
Problems / Concerns and Corrective Actions Taken:						
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
None						
Time	Activities					
0700 Meet sampling team	at Tt office, surpti so	Acty meeting gather				
supplies, make to fice	,(d					
0815 Arrive at LVW055 a	t Lake Mead Park					
	D+FB, make to LVW3.5					
0930 Collect LVW3.5-1 thru	-6, mobe to LVW4.2					
1100 Collect LUWY.2-1 the	w-4, make to LVW4.7	5				
	n-5, mobe to LVW5.3	227 127 127 127 127 127 127 127 127 127				
1315 collect LVW5.7-17hr	6, moke to ellica					
1500 Arrive at office, s	tore samples, prep for	tamorrow				
1600 Done for day						
2.						
		# # Part Advisor Advis				
□ LVW8.85: 36.107231, -115.019994	V5.3-6: 36.090660, -114.973903	ĽLVW4.2-2 : 36.094817, -114.954612				
□ LVW7.2: 36.090604, -115.000302 □ C1-	E: 36.086147, -114.972022	☑/LVW4.2-3 : 36.094978, -114.954716				
□ LVW6.6-1: 36.089145, -114.993282 □ C1-	W: 36.086147, -114.972022	☑ LVW4.2-4: 36.095108, -114.954806				
	: 36.086125, -114.970255					
	V4.75-1: 36.092979, -114.961810	LVW3.5-2: 36.100459, -114.943329				
F 10-11 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	V4.75-2: 36.093130, -114.961928	ビ LVW3.5-3: 36.100548, -114.943390				
THE STATE OF THE S	V4.75-3: 36.093277, -114.962051	□/LVW3.5-4: 36.100585, -114.943405				
	V4.75-4: 36.093431, -114.962174	Ø LVW3.5-5: 36.100606, -114.943451				
To a second	V4.75-5: 36.093580, -114.962301	☑ LVW3.5-6 : 36.100645, -114.943493				
	V4.2-1: 36.094695, -114.954570	☑ LVW0.55: 36.122158, -114.904631				
LVW5.3-5: 36.090513, -114.973758		· , , , , , , , , , , , , , , , , , , ,				
Prepared by: <u>Jesse Bunkers</u>	Signature: All	Date: 11/15/21				

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FIELD INVESTIGATION DAILY LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: LVW	Surface Water Sar	mpling	Task Manager: Je	sse Bunkers	Date: 11/1	6/21			
Field Personnel: 、	JB, JPN	1			Task No: M15	·			
Location: Las Vega					Reported by:	J. Bunkers			
Weather Condition	s: High 7	9°F, Suna	r. Calm						
Total Vehicle Milea	age: 27		7/		- garding	***			
Task Visitors / Sub	ocontractors: Na	God e							
Matters of Safety:	- 76								
S(ips/ Problems Concer	Trips/fms and Corrective	Actions Taken:							
None									
Time		W Esta T		Activities					
0700	Meet so	amodina to	eam at Tt.	Office Sat	ety brief	a gather			
	Supplies,	Maho to	field, calib	ON HOUY SI		9)-9			
0815	Arrive	at C-1 C	hannel take	- fla 2 MOO	Si-Coment	' - s :			
	71		Widehemm		VW	Q(L/s)			
	C-1-E	15	200	5.0	5,0	1.0			
	C-1-W	27	290	1.8	8.0	44			
					<u>-</u>				
0830	Collect	Samples	C1-E-0.0-20	Z1116 & C1.	-W-0.0-202U	1116, mobe back			
			kup field tal						
0945	(plact	Somether 1	NW6-05 + F	D + FR	aber to Lille)6.6			
1015	Callect 9	Somples LV	(W6.6-1 +huron	ol 66-3	10 - 10 - 10 - 10 b	VI.17 2.			
1045	Callect	Samoles L	127.2+FD,	ر در <u>سان به ما سموری</u> سازی مساور به ما مردد	MOZE TO -				
1145	Chlack	something in	VW8.85, me	ν 00					
1230			, Store equi			aala 67			
1430	4	of somoles	to EVA courie	preson, pae	~ sample c	2004 2			
	Done to		THE EXA COURT						
1530	Dene to	aay							
									
					in to				
LVW8.85: 36.107	221 -115 010004		LVW5.3-6: 36.090660114	072002	□ I VNV4 2 2. 26	004017 114 054010			
LVW7.2: 36.0906			C1-E: 36.086147, -114.972			i.094817, -114.954612			
LVW6.6-1: 36.08			C1-W: 36.086147, -114.972			i.094978, -114.954716			
LVW6.6-2: 36.08			,	,		1.095108, -114.954806			
- /			C12: 36.086125, -114.9702	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		i.100422, -114.943298			
LVW6.6-3: 36.08			LVW4.75-1: 36.092979, -11	1,14	□ LVW3.5-2: 36.100459, -114.943329				
LVW6.05: 36.087			LVW4.75-2: 36.093130, -11			LVW3.5-3: 36.100548, -114.943390			
□ LVW5.3-1: 36.08			LVW4.75-3: 36.093277, -11			i.100585, -114.943405			
LVW5.3-2: 36.09			LVW4.75-4: 36.093431, -11		□ LVW3.5-5: 36.100606, -114.943451				
LVW5.3-3: 36.090			LVW4.75-5: 36.093580, -11		15	LVW3.5-6: 36.100645, -114.943493			
□ LVW5.3-4: 36.09			LVW4.2-1: 36.094695, -114	.954570	□ LVW0.55: 36.	LVW0.55: 36.122158, -114.904631			
LVW5.3-5: 36.09	0513, •114.973758			-1					
Prepared by:	esse Bu	nkers	Signature:	6		_ Date: 11/16/21			

Attachment C Calibration Certification



YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: 68		DA	TE: 11/10/21
RENTAL CUSTOMER:			
INSTRUMENT INFORMATION			
RENTAL I.D. NUMBER: YSIPRODS	S. <u>47</u>		
SERIAL NUMBER: 20010344			
CALIBRATION INFORMATION			
PARAMETER:	STANDARD:	PASS	LOT#
1. CONDUCTIVITY	1,000 μ M hos	~	057939
2. pH ZERO	pH 7	/	C5-6K
pH SLOPE	pH 4	_	056160
pH SLOPE	pH 10		056162
3. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mml	Ja /	N/A
DISSOLVED OXYGEN ZERO TEST	(Sodium Sulfite)	<u>N/A</u>	MA
4. TURBIDITY ZERO	0.0 NTU's	1	11/12/2,
TURBIDITY SPAN	100 NTU's	<u> </u>	11/10/21
5 REDOX (ORP)	231mV (VSI Zobell solution)		1298121

Tt TE	TRATE	CH		CALIB	RATION	ILOG -	- WATE	R QUAL	ITY ME	TER				3.102		of 4
Task Name: LV				Task No.:	M15			om: EQUIPO	00 00 (<i>0</i> 3	044		Task Man	ager: Jess ProDSS	e Bunkers		
				Pre-Calibra				ation				Post-Calibration				
Date	Time	(Se) dweL	pH (pH = 4.0)	рН (рН = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	(%) 00	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
11/16/21	0 700	14.8	4.08	6.95	9.61	331	1141	99.0	-1.96	4.60	7.00	10.00	22 %	1,012	100.0	0.0

Notes:



TECHNICAL MEMORANDUM

To:	Chris Ritchie, Ramboll
Cc:	Steve Clough, Nevada Environmental Response Trust Mia Sosa, Jesse King, and Emeryville Lab Data; Ramboll David Bohmann, Tetra Tech Dana Grady, Tetra Tech
From:	Jesse Bunkers and James Roman
Date:	January 20, 2022
Subject:	December 2021 Monthly Groundwater Monitoring Summary Nevada Environmental Response Trust Site Henderson, Nevada

MONTHLY DEPTH TO WATER MEASUREMENTS

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the December 2021 monthly depth-to-water measurements. This activity was performed in accordance with the *Remedial Performance Groundwater Sampling and Analysis Plan*, *Revision 1* dated March 4, 2020 (SAP) and approved by Nevada Division of Environmental Protection (NDEP) on March 16, 2020, and *Field Guidance Document No. 008 – Groundwater and Free Product Level Measurements*, dated March 24, 2017.

Figure 1 identifies the 24 wells requiring depth-to-water measurements as part of the monthly groundwater monitoring event, as identified on Table 3 (Monthly Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected on December 10, 2021. All wells included in this monitoring event were observed to be in good condition.

The field water level measurement log is included as Attachment A and the field investigation daily log is included as Attachment B. The electronic data deliverable (EDD), with the recorded depth to water data, will be transmitted separately as an Excel file.

I

1/20/2022

Date

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared the December 2021 Monthly Groundwater Monitoring Summary

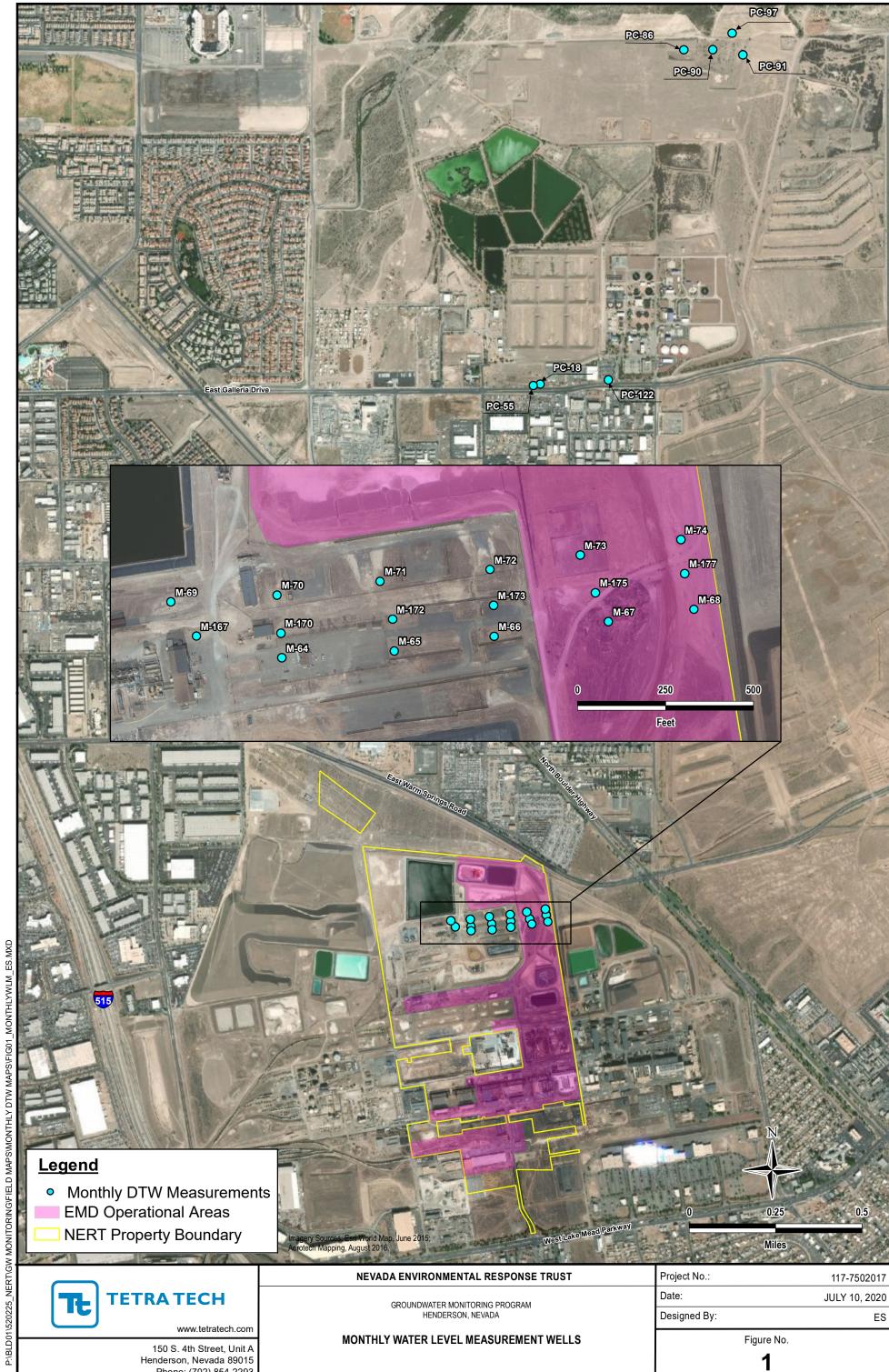
David S. Wilson, CEM

Principal Engineer Tetra Tech, Inc.

Nevada CEM Certificate Number: 2385

Nevada CEM Expiration Date: September 19, 2022

Figure



Phone: (702) 854-2293

Attachment A Field Water Level Measurement Log



WELL WATER LEVEL MEASUREMENT LOG

Page <u>1</u> of <u>1</u>

Task Name: GW Monitoring Task No: H02 Date: December 10, 2021

Task Manager: Jesse Bunkers Location: Site Wide

Equipment Model/Type:Serial Number:Recorded by:Solinst Water Level Meter337327G. Schuler

Sollist Water Level Weter			337327	O. Schaler				
Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)			
13:58	M-64	TOC	29.13	Good	Y			
14:02	M-65	TOC	31.94	Good	Y			
14:08	M-66	TOC	29.74	Good	DP			
13:15	M-67	TOC	21.23	Good	Y			
13:32	M-68	TOC	25.81	Good	Y			
14:27	M-69	TOC	33.11	Good	Y			
14:32	M-70	TOC	32.29	Good	DP			
14:38	M-71	TOC	35.16	Good	OS			
14:48	M-72	TOC	31.47	Good	DP			
13:25	M-73	TOC	30.71	Good	Υ			
13:38	M-74	TOC	28.58	Good	Υ			
14:23	M-167	TOC	28.61	Good	N			
14:19	M-170	TOC	28.61	Good	N			
14:15	M-172	TOC	30.91	Good	Y			
14:11	M-173	TOC	26.24	Good	N			
13:17	M-175	TOC	20.41	Good	N			
13:35	M-177	TOC	19.99	Good	N			
15:47	PC-122	TOC	32.77	Good	Y			
15:52	PC-18	TOC	33.92	Good	Υ			
15:55	PC-55	TOC	32.59	Good	Υ			
15:33	PC-86	TOC	12.08	Good	Υ			
15:30	PC-90	TOC	5.56	Good	Υ			
15:17	PC-91	TOC	11.12	Good	Υ			
15:27	PC-97	TOC	4.38	Good	Y			
		DMD - D-I: M	uring Deint DD - D21 1 1 D	OC - Offsite Changes - TOO - Too - EO - ' AM II D' -				
		BMP = Below Measu	iring Point DP = Dedicated Pump	OS = Offsite Storage TOC = Top of Casing (Well Riser)				

Attachment B Field Investigation Daily Log

TE	TRATECH	FIFI D IN	IVESTIGATION DAILY LO	3	Page ⊥ of ⊥
		, ieeb iii	VEOTION DAIL! LO		NERT, Henderson, NV
Task Name: GW	100 to 10		Task Manager: Jesse Bunkers	Date: 12/10/21	
Field Personnel:	-			Task No: H02	
Location: Site W				Reported by: G.S.J.	when Tablet: 6
Weather Conditi		1 / CO	01 High: 55°		
Total Vehicle Mi	leage: 20	/	7.		
Task Visitors / S	Subcontractors: No	one			
Matters of Safet	v: Slips, trips	s, talls, d	ehydration, Sunburn		
Problems / Cond	cerns and Corrective	Actions Taken: 4	10116-		
		710110110 Tallotti. /C			
Time			Activities		
1200	Accive	at I	t office, gather equ	ripment/Supplies	
1215	Mobe	TO 1500	eman property	1 1/	
1230	Acrive	at Bor	TEMAN Prodesty	15	
1315	Begin	Synoptic to, LV	DTW medsur	nent	
1500	Accive	70	W contract Supple	to MIII ma	9. Com . AS
1555	Fraisla	Synoptic	W, continue synor PTW measurement	ts Mal-	+O T+
1333	office	34 110/110	71000	1000	, _ / _
1615	Acrive	at It	office, upload for	ell form	1 3.749 12=
1620	Done f	or Lav	7 04 33		
			4,801		
			110-80690410		
	-				
	 			1 22 2 1 4 4 4 4 4	
			2000		
		10.000	40		
		es-			

		- 33			
*					
	+		Calact	11 11 1 22-72	
			SOLINST	WLM: 3373	61
			26		S2/7021
			,		140
			7-7-7-8		



December 2021 Sampling Event

DTW readings taken on all Interceptor Wells, SWF, AWF and AP5 Wells

Issues/Concerns

IWF, SWF, AWF, AP5 Wells DTW taken manually with Geotech Water Level Meter Serial #7053 on AP5 and AWF buddy wells. All others taken from control panel and verified

manually as necessary.

PC99R2/R3 When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading.

Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel

AP5 Wells Sampled by ETI 2021 12 16. Will be done on a Monthly basis by ETI.

*PC-117, PC-120, PC-121, *All have more than 1-foot difference in DTW from 11/2021 to 12/2021. Data recorded on field sheet.

*ART-7B, ART-8, ART-8A, PC-150

*I-C, I-E, I-G, I-J, I-L, I-T, I-U

ART-2 and ART-2A Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2021 12 15

I-AB, I-AC DTW taken prior to turning well on to sample, purged prior to collecting sample.

I-Q DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.

Emily McGuire sampled November 2021

FD/EB

SWF PC-120 2021 12 15 - FD PC-121 2021 12 15 - EB

AWF PC-150 2021 12 15 - FD ART-1A 2021 12 15 - EB

IWF I-D 2021 12 08 – FD I-E 2021 12 08 - EB

AP5 Wells E2-1 2021 12 16 - FD E2-2 2021 12 16 - EB

**Per email from Emily Gilson dated 4/12/2017 – removed historical_reference_elev and water_level_elev data from 2017 Groundwater Sampling EDD

Field Forms changes TWD will be marked with a "NM" not measured, unless a manual reading obtained. Manually record TWD in May

Monthly Table changes Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18

Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott

7/19/2017

Sampling Changes Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by

Tetra Tech in November and May.

			1950		
			Well:	I-AA	
Project/Site: NERT P	roject - Hendersor	n Nevada		Date(s	s): 12/8/21
Sampling Team: En	nily McGuire				
Sampling Method:		Collected From Sa	Пн	and Bailed due to well Location	
Weather Conditions	: Sunny				
DTW ONLY					,
Well Depth Inform	nation- Date	: 12/8/21		Time:	08:06
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):					
		Manually Taken a	t Well	VT	aken at Control Panel
Height of Water Co	lumn(ft): 0.00				
Well Purge Re	equired		× .		
Turned pump o	n at, flow	ving at	gpm. Purged	for	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	off at	<u>.</u>	
Field Measureme	nts- Date	e: 12/8/21		Start	Time: 10:59
Sample Time	рН	EC/MC	Temp		Well Observations
11:00	6.08 pH	4.68 mS/Cm	22.2	°C	
Sample Appearance	e: clear w/floatie	es .			
Finish Time: 11:03					
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3		LO3 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl
					Total Bottles: 5
DUP EC Reading mS/Cm	QC pH				

				I-AB					
Project/Site: NERT P	roject - Hendersor	n Nevada		Date(s): 12/8/21				
Sampling Team: En	nily McGuire								
Sampling Method:	V	Collected From Sar		land Bailed due to well Location					
Weather Conditions	: Sunny								
DTW ONLY									
Well Depth Information- Date: 12/8/21 Time: 08:06									
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)									
Depth to Water(ft):	COLUMN TOWNS OF THE PROPERTY O	ally measured annually)							
Deptil to Water(it).		Manually Taken at	Well		aken at Control Panel				
Height of Water Col		vialitally rakell at	. WCII	<u> - </u>	unch at control rane.				
rieight of Water co.	(10)								
Well Purge Re	quired								
Turned pump o		ving at <u>6.50</u> _ §	gpm. Purged	for 5	minutes, 2 minutes				
1	ell purge spreadsh	eet. Turned well of	ff at <u>11:07</u>	<u>.</u>					
Field Measureme	nts- Date	e: 12/8/21		Start	Time: 11:03				
Sample Time	рН	EC/MC	Temp		Well Observations				
11:04	6.31 pH	4.81 mS/Cm	22.7	°C					
Sample Appearance	e: clear								
Finish Time: 11:07									
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI									
Bottles:	1btl \	1btl	1btl	1btl	1btl 1btl				
	\smile								
					Total Bottles: 5				
	1								
DUP EC Reading	QC								
mS/Cm	pH								

			· ·	
				Well: I-AC
Project/Site: NERT F	Project - Henderso	n Nevada		Date(s): 12/16/21
Sampling Team: El	М			
Sampling Method:	V	Collected From Sa	mple Port	☐ Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY				
Well Depth Inforr	nation- Dat	e: 12/16/21		Time: 09:23
Total Well Depth(ft		ually measured annually)		
Depth to Water(ft):				
		Manually Taken a	t Well	✓ Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	equired			
Turned pump o	on at <u>10:55</u> flo	wing at <u>3.40</u>	gpm. Purged f	d for $\frac{5}{2}$ minutes, $\frac{4}{2}$ minutes
required per w	ell purge spreadsl	neet. Turned well o	off at 11:03	<u></u> ·
Field Measureme	ents- Dat	e: 12/16/21		Start Time: 10:55
Sample Time	рН	EC/MC	Temp	Well Observations
11:00	5.99 p⊦	6.48 mS/Cm	17.7	°C
Sample Appearance	e: Clear			
Finish Time: 11:03				
Analyses: Bottles:	CLO4 1btl	TDS/NO3		CLO3 TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading mS/Cm	QC 1 pl			

			Well	: I-AD		
Project/Site: NERT F	roject - Henderso	n Nevada	Date	e(s): 12/16/21		
Sampling Team: El						
Sampling Method:	V	Collected From Sar	mple Port 🗆	Hand Bailed due to well Location		
Weather Conditions	: Sunny					
DTW ONLY						
Well Depth Inform	nation- Dat	e: 12/16/21	Time	e: 09:23		
Total Well Depth(ft)	OF TENERSON	ually measured annually)				
Depth to Water(ft):	Depth to Water(ft): 32.83 Manually Taken at Well Taken at Control Panel					
Height of Water Co	lumn(ft):					
Well Purge Re		wing at	gpm. Purged for _	minutes, minutes		
ll .		neet. Turned well o				
Field Measureme	nts- Dat	e: 12/16/21	Star	t Time: 11:04		
Sample Time	рН	EC/MC	Temp	Well Observations		
11:05	6.32 pH	6.66 mS/Cm	18.9 °c			
Sample Appearance	e: Pale Yellow					
Finish Time: 11:07						
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl		
				Total Bottles: 5		
		a		. ocal bottles.		
DUP EC Reading mS/Cm	QC pH					

		Well: I-AR		
Project/Site: NERT Pi	oject - Hendersor	n Nevada	Date	e(s): 12/8/21
Sampling Team: Em				
Sampling Method:		Collected From San	nple Port	Hand Bailed due to well Location
Weather Conditions:				
Well Depth Inform	nation- Date	: 12/8/21	Tim	ne: 08:06
Total Well Depth(ft)		ally measured annually)		
Depth to Water(ft):		any measured amounty		
Depth to water(it).	The state of the s	Manually Taken at	Well	Taken at Control Panel
Height of Water Col				
1.10.8.11				
Well Purge Re	quired			
		wing at {	gpm. Purged for	minutes, minutes
		eet. Turned well o		
Field Measureme	nts- Dat	e: 12/8/21	Sta	art Time: 11:24
Sample Time	рН	EC/MC	Temp	Well Observations
11:25	7.47 pH	5.97 mS/Cm	24.1	<u>C</u>
Sample Appearance	: Pale yellow w	//floaties		
Finish Time: 11:27				
Analyses: Bottles:	CLO4	TDS/NO3 1btl	CR CLOS	
				Total Bottles: 5
DUP EC Reading	QC			

				ı: I-B				
Project/Site: NERT P	roject - Henderso	n Nevada	Date	e(s): 12/8/21				
Sampling Team: En	nily McGuire							
Sampling Method:	V	Collected From Sar	mple Port	Hand Bailed due to well Location				
Veather Conditions: Sunny								
DTW ONLY								
Well Depth Information- Date: 12/8/21 Time: 08:06								
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)						
Depth to Water(ft):								
		Manually Taken at	Well	Taken at Control Panel				
Height of Water Co	lumn(ft): 0.00							
Well Purge Re	equired							
Turned pump o	n at flo	wing at	gpm. Purged for	minutes, minutes				
required per w	ell purge spreadsh	eet. Turned well o	ff at					
Field Measureme	nts- Dat	e: 12/8/21	Sta	rt Time: 11:04				
Sample Time	рН	EC/MC	Temp	Well Observations				
11:08	6.78 pH	5.38 mS/Cm	22.8 °C					
Sample Appearance	e: clear			_				
Finish Time: 11:10								
Analyses:	CLO4		CR CLO3					
Bottles:	1btl \	1btl	1btl 1bt	1btl 1btl				
				Total Bottles: 5				
DUP EC Reading	QC							

mS/Cm

Well: I-C	
Project/Site: NERT Project - Henderson Nevada Date(s): 12/8/21	
Sampling Team: Emily McGuire	
Sampling Method: Collected From Sample Port Hand Bailed due to well Location	
Weather Conditions: Sunny	
Weather conditions. Co.m.y	
DTW ONLY	
Well Depth Information- Date: 12/8/21 Time: 08:06	
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 41.47	
Manually Taken at Well Taken at Control Panel	
Height of Water Column(ft): 0.00	
Well Purge Required	
Turned pump on at, flowing at gpm. Purged for minutes, minutes	
required per well purge spreadsheet. Turned well off at	
Field Measurements- Date: 12/8/21 Start Time: 11:31	
Sample Time pH EC/MC Temp Well Observations	
11:32 7.44 7.26 23.3 °C	
Sample Appearance: Pale yellow	
Finish Time: 11:34	
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI	
Bottles: 1btl 1btl 1btl 1btl 1btl	
Tulo ula E	
Total Bottles: 5	
Total Bottles: 5 DUP EC Reading QC	

mS/Cm

			Well	I-D			
Project/Site: NERT P	Project/Site: NERT Project - Henderson Nevada Date(s): 12/8/21						
Sampling Team: Em							
Sampling Method:		Collected From Sar	mple Port 🔲	Hand Bailed due to well Lo	cation		
Weather Conditions	: Sunny						
DTW ONLY							
Well Depth Inform	mation- Date	: 12/8/21	Time	: 08:06			
Total Well Depth(ft)							
	easurement taken, manu	ally measured annually)					
Depth to Water(ft):		Manually Taken at	· Well	Taken at Control Panel			
Height of Water Co		ivianually Taken at	. weii	Taken at control runer			
neight of Water Co	iumm(rej. 0.00						
Well Purge Re	equired						
		wing at	gpm. Purged for	minutes,	minutes		
H	ell purge spreadsh						
Field Measureme	ents- Date	e: 12/8/21	Star	t Time: 11:55			
Sample Time	рН	EC/MC	Temp	Well Obser	rvations		
11:56	7.55	7.84	25.8				
	Dala vallavi	mS/Cm	°C				
Sample Appearance							
Finish Time: 12:00							
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL	CRVI		
Bottles:	1btl	1btl	1btl 1btl	1btl	1btl)		
				Total Bottles: 5			
		•	. 0	NO (0			
DUP EC Reading	QC			12 08 - F17			
			Collected	at some tin	ne for same		
mS/Cm	рН	JV.	12/46is bef	ore moving a	on to next		
			sell.	O			
°C							
		0	4:756	EC: 7.86	°C 25.9		
		Y	11 1.00				

	Well: I-E
Project/Site: NERT Project - Henderson Nevada	Date(s): 12/8/21
Sampling Team: Emily McGuire	
Sampling Method: Collected From Sam	nple Port Hand Bailed due to well Location
Weather Conditions: Sunny	
DTW ONLY	
Well Depth Information- Date: 12/8/21	Time: 08:06
Total Well Depth(ft): NM	
('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 33.45 Manually Taken at	Well Taken at Control Panel
Height of Water Column(ft): 0.00	Well Figures at Contract Contr
rieight of Water Columnity.	
Well Purge Required	
	gpm. Purged for minutes, minutes
required per well purge spreadsheet. Turned well of	
Field Measurements- Date: 12/8/21	Start Time: 11:45
Sample Time pH EC/MC	Temp Well Observations
11:46 7.33 7.83	26.7
11:46 7.33 7.83 mS/Cm	
Sample Appearance: Pale yellow	
Finish Time: 11:50	
	CR CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl	1btl 1btl 1btl
	Total Bottles: 5
	E 2021 12 08 - EB
DUP EC Reading QC	
('0\	lected for same analysis before
mS/Cm pH	oving on to next well.
• d	llected for same analysis before oving on to next well. Time: 1148
F	pH: 9.01 &C: 0.03 Temp. 21.6

			W	/ell: - F					
Project/Site: NERT P	roject - Henderson	Nevada	D	ate(s): 12/8/21					
Sampling Team: Em									
Sampling Method:		Collected From San	nple Port [Hand Bailed due to well Location					
Weather Conditions	Weather Conditions: Sunny								
DTW ONLY									
Well Depth Inforn	nation- Date	: 12/8/21	1 1 1	ime: 08:06					
Total Well Depth(ft)	: NM easurement taken, manua	Illy measured annually)		*					
Depth to Water(ft):		,,							
		Manually Taken at	Well	✓ Taken at Control Panel					
Height of Water Col	umn(ft): 0.00								
Well Purge Re	quired								
Turned pump o	n at, flov	ving at §	gpm. Purged f	or minutes, minutes					
required per we	ell purge spreadsh	eet. Turned well of	ff at	-					
Field Measureme	nts- Date	e: 12/8/21		Start Time: 11:35					
Sample Time	рН	EC/MC	Temp	Well Observations					
11:36	7.44 pH	9.02 mS/Cm	23.3	°C					
Sample Appearance	e: Yellow w/float	ties							
Finish Time: 11:38									
			\ <i>(</i>						
Analyses:	CLO4			O3 TDS/NO3/SO4/CL CRVI					
Bottles:	1btl \	1btl /	1btl 1	1btl 1btl 1btl					
			_						
				Total Bottles: 5					
DUD FG D	00	1							
DUP EC Reading	QC								
II	II .	1							

			We	ell: I-G
Project/Site: NERT P	Project - Henderso	n Nevada	Da	te(s): 12/13/21
Sampling Team: En				
Sampling Method:		Collected From Sai	mple Port	Hand Bailed due to well Location
Weather Conditions				
Wedther conditions				
DTW ONLY				
Well Depth Inform	nation- Date	e: 12/13/21	Tir	me: 08:31
Total Well Depth(ft)): NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):				
		Manually Taken at	Well	Taken at Control Panel
Height of Water Co				
Well Purge Re	equired			
Turned pump o	on at flo	wing at	gpm. Purged for	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Dat	e: 12/13/21	St	art Time: 12:07
Sample Time	рН	EC/MC	Temp	Well Observations
12:08	6.72	10.40	22.8	
	рН	mS/Cm	۰	
Sample Appearance				4
Finish Time: 12:10)			
		_		
				TDS/NO3/SO4/CL CRVI
Analyses:	CLO4	TDS/NO3	1btl CLO	
Bottles:	1btl \	1bti	1007	
				Total Bottles: 5
				Total Bottles
DUP EC Reading	QC	1		
Dor Londonig		1		
mS/Cm	pH			
1110, 011		리		

			Well	: I-H
Project/Site: NERT P	roiect - Hendersor	Nevada	Date	e(s): 12/13/21
Sampling Team: Em				
Sampling Method:		Collected From Sar	mple Port	Hand Bailed due to well Location
Weather Conditions				
DTW ONLY				
Well Depth Inforn	nation- Date	: 12/13/21	Tim	e: 08:31
Total Well Depth(ft)	25 250 340			
('NM') - No me	easurement taken, manua	ally measured annually)		
Depth to Water(ft):			17	True of Control Bond
		Manually Taken at	Well	Taken at Control Panel
Height of Water Col	lumn(ft): 0.00			
Well Purge Re				
II.				minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
		10/10/04		rt Time: 12:18
Field Measureme		e: 12/13/21		Well Observations
Sample Time	рН	EC/MC	Temp	Well Observations
12:19	7.06	9.85	23.9 °C	
	DH pH	mS/Cm		1
Sample Appearance				-
Finish Time: 12:22				
	_			
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1bt	
Docties.				
				Total Bottles: 5
				<u> </u>
DUP EC Reading	QC	1		
mS/Cm	рН			
,	1	4		

			Wel	_{I:} -
Project/Site: NERT F	Project - Henderso	n Nevada		e(s): 12/16/21
Sampling Team: El				
Sampling Method:		Collected From Sai	mple Port 🛚	Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY				
Well Depth Inforr	mation- Date	e: 12/16/21	Tim	e: 09:23
Total Well Depth(ft): NM easurement taken, manu	ually moasured annually)		
Depth to Water(ft):		ally measured annually)		
Deptil to Water(10).	22.10	Manually Taken at	Well	Taken at Control Panel
Height of Water Co	lumn(ft):		<u></u>	
Well Purge Re	equired			
Turned pump o	on at, flo	wing at	gpm. Purged for	minutes, minutes
1		eet. Turned well o		
Field Measureme	ents- Dat	e: 12/16/21	Sta	rt Time: 11:22
Sample Time	рН	EC/MC	Temp	Well Observations
11:23	6.95	6.75 mS/Cm	21.6 °C	
Sample Appearance	e: Yellow			
Finish Time: 11:25				
			<u> </u>	
Analyses:	(CLO4)		CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC	1		
		1		
mS/Cm	pH			
		-		

			Well	: I-J
Project/Site: NERT Pr	oject - Henderson	Date	e(s): 12/16/21	
Sampling Team: EM				
Sampling Method:	☑ (Collected From San	nple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Inform	ation- Date	: 12/16/21	Time	e: 09:23
Total Well Depth(ft):	NM asurement taken, manua	ally measured annually)		
Depth to Water(ft):	26.69	Manually Taken at	Well	Taken at Control Panel
Height of Water Col	umn(ft):			
Well Purge Re				
II .		ving at {eet. Turned well of		minutes, minutes
Field Measureme	nts- Date	e: 12/16/21	Star	rt Time: 11:12
Sample Time	рН	EC/MC	Temp	Well Observations
11:13	6.67 pH	6.28 mS/Cm	18.7 °C	
Sample Appearance	: Yellow			
Finish Time: 11:16				
Analyses: Bottles:	CLO4	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5

DUP EC Reading	QC
5.99 mS/Cm	7.02 pH
23.6 °C	

			Well	ı: I-K
Project/Site: NERT F	Project - Henderso	n Nevada	Date	e(s): 12/16/21
Sampling Team: El				
Sampling Method:		Collected From Sai	mple Port 🛘	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Dat	e: 12/16/21	Tim	e: 09:23
Total Well Depth(ft ('NM') - No m		ually measured annually)		
Depth to Water(ft):	24.11			_
		Manually Taken at	: Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re				
11				minutes, minutes
required per w	ell purge spreads	neet. Turned well o	ff at	
		10110101	Cta	rt Time: 11:08
Field Measureme		te: 12/16/21 EC/MC	Temp	Well Observations
Sample Time	рН	EC/IVIC	Temp	Well observations
11:09	6.46 pt	6.96 mS/Cm	18.1 °C	
Sample Appearanc	e: Pale Yellow			
Finish Time: 11:11				
Analyses: Bottles:	CLO4 1btl	TDS/NO3	CR CLO3	
				Total Bottles: 5
		=1		
DUP EC Reading mS/Cm	QC p			
ms/cm				

			w	ell: - L				
Project/Site: NERT P	roiect - Hendersor	Nevada	Da	te(s): 12/8/21				
	Sampling Team: Emily McGuire							
Sampling Method:		Collected From Sar	nple Port	Hand Bailed d	lue to well Location			
Weather Conditions	Sunny							
DTW ONLY								
Well Depth Inform	nation- Date	: 12/8/21	Ti	me: 08:06				
Total Well Depth(ft)								
	easurement taken, manua	illy measured annually)						
Depth to Water(ft):		Manually Takon at	Woll [✓ Taken at Con	trol Panel			
		Manually Taken at	vveii	Takerrat corr	tion and			
Height of Water Col	umn(ft): 0.00							
Well Purge Re	auired							
			nm Durgod fo	r min	uites minutes			
				·	nutes, minutes			
required per we	ell purge spreadsh	eet. Turned well o	II at					
Field Measureme	nts- Date	e: 12/8/21	S	tart Time: 11:17	7			
Sample Time	рН	EC/MC	Temp		Well Observations			
11:18	7.22 pH	6.36 mS/Cm	24.7	°C				
Sample Appearance	e: clear							
Finish Time: 11:20								
Analyses:	CLO4	TDS/NO3	CR CLC	3 TDS/NO	03/SO4/CL CRVI			
Bottles:	1btl	1btl	1btl 1	btl	1btl 1btl			
				Total Bo	ttles: 5			

DUP EC Reading	QC
6.35 mS/Cm	7.04 pH
24.7 °C	

			We	II: I-M				
Project/Site: NERT Pr	oject - Hendersor	Nevada	Dat	e(s): 12/8/21				
Sampling Team: Em								
Sampling Method:		Collected From Sample Port Hand Bailed due to well Location						
	Weather Conditions: Sunny							
DTW ONLY								
Well Depth Inform	ation- Date	: 12/8/21	Tin	ne: 08:06				
Total Well Depth(ft)	: NM asurement taken, manu	ally massured annually)						
Depth to Water(ft):		my measured annually,						
Depth to water(it).		Manually Taken at	Well	Taken at Con	trol Panel			
Height of Water Col								
Well Purge Re								
Turned pump o	n at, flo	wing at	gpm. Purged for	·mir	utes, minutes			
required per we	ell purge spreadsh	eet. Turned well o	ff at					
Field Measureme	nts- Dat	e: 12/8/21		art Time: 11:5				
Sample Time	pH	EC/MC	Temp		Well Observations			
11:52	7.38 _{pH}	7.92 mS/Cm	26.1	c				
Sample Appearance	e: Pale yellow							
Finish Time: 11:55								
Analyses:	(CLO4)	TDS/NO3	CR CLO		03/S04/CL			
Bottles:	1btl \	1btl	1btl 1b	otl	1btl 1btl			
				Total Bo	ttles: 5			
				Total bo				

DUP EC Reading	QC
7.90 mS/Cm	7.03 pH
25.9 °C	

				Well:	: I-N
Project/Site: NERT P	roject - Henderson	n Nevada		Date	(s): 12/8/21
Sampling Team: Em					
Sampling Method:		Collected From Sar	mple Port		Hand Bailed due to well Location
Weather Conditions	: Sunny				
DTW ONLY					
Well Depth Inforn	nation- Date	: 12/8/21		Time	e: 08:06
Total Well Depth(ft)	: NM easurement taken, manua	ally massured annually)			
Depth to Water(ft):	NOTE OF THE PARTY	any measured amidany)			
Depth to Water(it).		Manually Taken at	Well	V	Taken at Control Panel
Height of Water Col					
Well Purge Re					
Turned pump o	n at, flow	wing at	gpm. Purged	for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at		
		10/0/04		C:	11.40
Field Measureme		e: 12/8/21	T	Star	t Time: 11:42 Well Observations
Sample Time	pH	EC/MC	Temp		Well Observations
11:43	7.36	7.86	24.2	°C	
Sample Appearance	pH Pale vellow	mS/Cm	L	\dashv	
Finish Time: 11:45					
Tillish Tillic. TT.10					
				$\overline{}$	
Analyses:	CLO4	TDS/NO3	CR C	CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl 1btl
	\bigcup				
					Total Bottles: 5
	1	1			
DUP EC Reading	QC				
-12					

			w	ell: -()
Project/Site: NERT Proje	ect - Henderson	Nevada	Da	te(s): 1	2/13/21
Sampling Team: Emily					
Sampling Method:		Collected From Sar	mple Port	Hand	Bailed due to well Location
Weather Conditions: S	unny				
DTW ONLY	2				
Well Depth Informat	ion- Date	: 12/13/21	Ti	me: 08:3	1
Total Well Depth(ft):					
		illy measured annually)			<u> </u>
Depth to Water(ft):		Maria III. Talian at	I	Zhaker	at Control Panel
		Manually Taken at	vveii	Takei	Tat Control Fanci
Height of Water Colum	in(ft): 0.00				
Mall Duran Bassu	irad				
Well Purge Requ		ving at	anm Purged fo	r	minutes, minutes
11				't	
required per well p	ourge spreausite	eet. Turried Weir o	ii at		
Field Measurements	- Date	e: 12/13/21	S	tart Tim	e: 12:29
Sample Time	рН	EC/MC	Temp		Well Observations
12:30	7.37 pH	7.80 mS/Cm	21.5	°C	
Sample Appearance: `			<u> </u>		
Finish Time: 12:33					
				\ /	
Analyses:	CLO4 \	TDS/NO3	CR CLC	3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl /	1btl	1btl 1	btl	1btl 1btl
				<i>_</i> `	
				Т	otal Bottles: 5
		1			
DUP EC Reading	QC				
mS/Cm	рН				

			Well	: I-P
Project/Site: NERT P	roject - Henderson	Nevada	Date	(s): 12/13/21
Sampling Team: Em			•	
Sampling Method:		Collected From San	nple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	: 12/13/21	Time	9: 08:31
Total Well Depth(ft)	: NM easurement taken, manua	illy measured annually)		
Depth to Water(ft):		Manually Taken at	Well 🔽	Taken at Control Panel
Height of Water Col		•		
Well Purge Re				
Turned pump o				minutes, minutes
requires por in-				
Field Measureme	nts- Date	e: 12/13/21	Star	t Time: 12:22
Sample Time	рН	EC/MC	Temp	Well Observations
12:23	7.07 pH	9.17 mS/Cm	22.8 °C	
Sample Appearance	e: Yellow			
Finish Time: 12:25				
Analyses: Bottles:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading 9.17	7.01	×		

22.9

			Wel	II: I-Q
Project/Site: NERT P	roject - Hendersor	n Nevada	Dat	e(s): 12/13/21
Sampling Team: Em				
Sampling Method:		Collected From Sa	mple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 12/13/21	Tim	ne: 08:31
Total Well Depth(ft)				
	easurement taken, manu	ally measured annually)		
Depth to Water(ft):				Taken at Control Panel
		Manually Taken a	t Well	Taken at Control Panel
Height of Water Col	lumn(ft): 0.00			
П .				
Well Purge Re			Dursed for	minutes minutes
ii .				minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	at	
Field Measureme	nts Date	e: 12/13/21	Sta	art Time: 12:03
Sample Time	pH	EC/MC	Temp	Well Observations
12:04	6.63 pH	10.10 mS/Cm	23.6	
Sample Appearance				1
Finish Time: 12:07				
			~ ~	
Analyses:	CLO4 \	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1bt	tl 1btl 1btl
				Total Bottles: 5
		_		
DUP EC Reading	QC			
mS/Cm	рН			

		••••	WARRANT VACCATION AND THE RESPONDENCE OF THE PROPERTY OF THE P	
			Wel	⊫I-R
Project/Site: NERT Pro	niect - Henderson	Nevada	Date	e(s): 12/8/21
		Nevada		
Sampling Team: Emil		Collected From Sar	nnle Port	Hand Bailed due to well Location
Sampling Method:		onected from 5di	inpic rore	
Weather Conditions:	Suriny			
DTW ONLY				
Well Depth Inform	ation- Date	: 12/8/21	Tim	e: 13:37
Total Well Depth(ft): ('NM') - No mea	NM surement taken, manua	lly measured annually)		
Depth to Water(ft):				
	V I	Manually Taken at	Well	Taken at Control Panel
Height of Water Colu	mn(ft): 0.00			
Well Purge Rec	quired			
Turned pump or	at, flov	ving at	gpm. Purged for	minutes, minutes
11		eet. Turned well o		
Field Measuremen	its- Date	e: 12/8/21	Sta	rt Time: 11:10
Sample Time	рН	EC/MC	Temp	Well Observations
11:11	6.95 рН	6.47 mS/Cm	23.4	Transducer level not verified by manual measurement. Manual measurement
Sample Appearance	clear			used instead.
Finish Time: 11:13				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3	
DUP FC Reading	OC	1		

QC
рН

			We	II: I-S
Project/Site: NERT F	Project - Henderso	n Nevada	Dat	e(s): 12/8/21
Sampling Team: En				
Sampling Method:		Collected From Sar	mple Port	Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY				
Well Depth Inforr	mation- Date	e: 12/8/21	Tim	ne: 08:06
Total Well Depth(ft ('NM') - No m): NM neasurement taken, manu	rally measured annually)		
Depth to Water(ft):		Manually Taken at	· Well	Taken at Control Panel
Height of Water Co		ivialiually rakell at		
rieight of water co				
Well Purge Re	equired			
Turned pump of	on at, flo	wing at	gpm. Purged for	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
		10/0/01	C	ort Time: 11:00
Field Measureme		e: 12/8/21		well Observations
Sample Time	рН	EC/MC	Temp	Well Observations
11:21	7.29 pH	6.42 mS/Cm	24.2	
Sample Appearance	e: Pale yellow			
Finish Time: 11:23	3			
Analyses:	CLO4		CR CLO3	
Bottles:	1btl \	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC]		
mS/Cn	n ph			
11137 C11	+	긔		

			Well	: I-T
Project/Site: NERT P	roject - Hendersor	n Nevada	Date	e(s): 12/13/21
Sampling Team: Em			-11-	
Sampling Method:		Collected From Sar	mple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 12/13/21	Time	e: 08:31
Total Well Depth(ft)				
	easurement taken, manu	ally measured annually)		
Depth to Water(ft):				Taken at Control Panel
		Manually Taken at	t Well	laken at Control Panel
Height of Water Col	lumn(ft): 0.00			
Well Purge Re	equired			
		wing at	gpm. Purged for	minutes, minutes
	ell purge spreadsh			
Field Measureme	nts- Date	e: 12/13/21	Sta	rt Time: 12:10
Sample Time	рН	EC/MC	Temp	Well Observations
12:11	6.90 pH	10.53 mS/Cm	24.9 °C	
Sample Appearance	e: Yellow			
Finish Time: 12:13	3			
			-	
Analyses:	CLO4 \	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC			

			Well:	I-U
Project/Site: NERT P	roject - Hendersoi	n Nevada	Date	(s): 12/13/21
Sampling Team: Em				
Sampling Method:		Collected From Sar	nple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny		=======================================	
DTW ONLY				
Well Depth Inforn	nation- Date	e: 12/13/21	Time	:: 0831
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		Manually Taken at	Well	Taken at Control Panel
Height of Water Co	lumn(ft): 0.00			
Well Purge Re		wing at	gpm. Purged for	minutes, minutes
II .		eet. Turned well o		
required per w	en purge spreads:			
Field Measureme	nts- Dat	e: 12/13/21	Star	t Time: 12:13
Sample Time	рН	EC/MC	Temp	Well Observations
12:14	6.87 рН	10.36 mS/Cm	24.5 °C	
Sample Appearanc	e: Yellow w/floa	ties		
Finish Time: 12:17	•			
Analyses: Bottles:	CLO4 1btl	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading	QC pl			

<u>56</u>			Well: -	·V			
Project/Site: NERT P	roject - Hendersoi	n Nevada		Date(s):	12/16/21		
Sampling Team: EM	Л						
Sampling Method:	V	Collected From Sar	mple Port	☐ Han	d Bailed due to well Location		
Weather Conditions	: Sunny						
DTW ONLY							
Well Depth Information- Date: 12/16/21 Time: 09:23					09:23		
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)							
Depth to Water(ft):	30.06	Manually Taken at	Well	✓ Tak	en at Control Panel		
Height of Water Col	umn(ft):						
Well Purge Re	Well Purge Required						
11		wing at { eet. Turned well o		for	minutes, minutes		
Field Measureme	nts- Date	e: 12/16/21		Start Ti	me: 11:26		
Sample Time	рН	EC/MC	Temp		Well Observations		
11:27	7.15 pH	6.85 mS/Cm	21.3	°C			
Sample Appearance	e: Clear						
Finish Time: 11:30							
Analyses:	CLO4	TDS/NO3	CR C	1.03	TDS/NO3/SO4/CL CRVI		
Bottles:							
	Total Bottles: 5						
DUP EC Reading	QC 6.97						

mS/Cm

21.6

			Wel	I: I-W
Project/Site: NERT P	roject - Henderson	Nevada	Date	e(s): 12/13/21
Sampling Team: Em				
Sampling Method:		Collected From San	nple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 12/13/21	Tim	e: 08:31
Total Well Depth(ft)				
	easurement taken, manua	ally measured annually)		
Depth to Water(ft):		Manually Taken at	Well	Taken at Control Panel
Height of Water Col		- Tandany Taken de	Well	
Height of Water Col	unin(ic).			
Well Purge Re	auired			
		wing at{	gpm. Purged for	minutes, minutes
11	ell purge spreadsh			
<u> </u>				
Field Measureme	nts- Date	e: 12/13/21	Sta	rt Time: 12:25
Sample Time	рН	EC/MC	Temp	Well Observations
12:26	7.28 pH	8.08 mS/Cm	21.5 °(
Sample Appearance	e: Yellow w/float	ties		
Finish Time: 12:29				
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl)	1btl	1btl 1bt	
201				
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	pH			

			l: I-X					
Project/Site: NERT F	Project - Henderso	n Nevada	Date	e(s): 12/8/21				
Sampling Team: En	nily McGuire							
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well	Location			
Weather Conditions	Weather Conditions: Sunny							
DTW ONLY								
Well Depth Inform	Well Depth Information- Date: 12/8/21 Time: 08:06							
	Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)							
Depth to Water(ft):								
		Manually Taken a	t Well	Taken at Control Panel				
Height of Water Co	lumn(ft): 0.00							
Well Purge Re	equired							
Turned pump of	on at flo	wing at	gpm. Purged for	minutes,	minutes			
required per w	ell purge spreadsh	eet. Turned well o	off at					
		10/0/01	C.	-t Ti 41.00				
Field Measureme		e: 12/8/21		rt Time: 11:38	servations			
Sample Time	рН	EC/MC	Temp	Well Obs	ser various			
11:39	7.40	8.83	23.3					
6 1 4	pH Vallow	mS/Cm		1				
Sample Appearance Finish Time: 11:42				1				
rillisti tille. 11.42								
			_					
Analyses:	CLO4 /	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL	CRVI			
Bottles:	1btl	1btl	1btl 1bt		1btl)			
Total Bottles: 5								
		=						
DUP EC Reading	QC							

mS/Cm

			-		
				Well: I-Y	
Project/Site: NERT Project	- Henderson Ne	evada		Date(s): 12	2/8/21
Sampling Team: Emily Mo					
Sampling Method:		ected From Sar	nple Port	Hand Ba	ailed due to well Location
Weather Conditions: Sun			<u> </u>		
Wedther conditions.					
DTW ONLY					
Well Depth Information	1- Date: 12	2/8/21		Time: 10:55	
Total Well Depth(ft): NN ('NM') - No measurem	/ ent taken, manually r	measured annually)			
Depth to Water(ft): 51					
	✓ Ma	nually Taken at	Well	Taken a	at Control Panel
Height of Water Column(ft): 0.00				
Well Purge Require	d				
Turned pump on at_	, flowin	g at	gpm. Purged	for	minutes, minutes
required per well pur					
Field Measurements-	Date: 1	2/8/21		Start Time:	11:13
Sample Time	рН	EC/MC	Temp		Well Observations
11:14 7.1	16 pH	6.42 mS/Cm	23.7	°C	
Sample Appearance: Cle	ar				
Finish Time: 11:17					
	\ /		< C	\ /	
Analyses: (CLO4 TE				DS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl 1btl
				То	tal Bottles: 5
DUB EC Booding	06				

DUP EC Reading	QC
mS/Cm	pН
°C	,

			F	
			v	Well: I-Z
Project/Site: NERT Pr	oject - Henderson	Nevada		Date(s): 12/16/21
Sampling Team: EM				
Sampling Method:	☑ Co	ollected From Sa	mple Port	☐ Hand Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Inform	ation- Date:	12/16/21		Time: 09:23
Total Well Depth(ft): ('NM') - No me	NM asurement taken, manual	y measured annually)		
Depth to Water(ft):	29.51		<u>-</u>	
	N	lanually Taken a	t Well	Taken at Control Panel
Height of Water Colu	ımn(ft):			
Well Purge Rec	guired			
		ing at	gpm. Purged f	for minutes, minutes
11	Il purge spreadshe			
L.				
Field Measuremer	nts- Date:	12/16/21		Start Time: 11:17
Sample Time	рН	EC/MC	Temp	Well Observations
11:18	6.81 _{pH}	6.32 mS/Cm	21.0	°C
Sample Appearance	: Yellow			
Finish Time: 11:21				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl		LO3 TDS/NO3/SO4/CL CRVI 1btl 1btl 1btl
	\bigcirc			
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			

		Well	ART-1		
Project/Site: NERT Project - Henderson Nevada			Date(s): 12/15/21		
Sampling Team: Emily McGuire					
	☑ Collected From Sar	mple Port 🔲 1	Hand Bailed due to well Location		
Weather Conditions: Sunny					
DTW ONLY					
Well Depth Information-	Date: 12/15/21	Time	e: 09:52		
Total Well Depth(ft): NM ('NM') - No measurement taken, i	manually measured annually)				
Depth to Water(ft): 29.61					
Manually Taken at Well Taken at Control Panel					
Height of Water Column(ft):					
()					
Well Purge Required					
	flowing at	gpm. Purged for	minutes, minutes		
required per well purge sprea					
required per went punge opios					
Field Measurements-	Date:	Star	rt Time:		
Sample Time pH	EC/MC	Temp	Well Observations		
	pH mS/Cm	°C			
Sample Appearance: Clear					
Finish Time:					
Analyses: CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI		
Bottles: 1btl 1btl 1btl 1btl 1btl 1btl					
			Total Bottles: 5		
DUP EC Reading QC					
mS/Cm	рН				

				7		
			Well:	ART-1A		
Project/Site: NERT Proje	ect - Henderson	Date((s): 12/15/21			
Sampling Team: EM						
Sampling Method: Collected From Sample Port Hand Bailed due to well Location						
Weather Conditions:	Sunny					
DTW ONLY						
Well Depth Informat	ion- Date:	12/15/21	Time	: 10:25		
Total Well Depth(ft): ('NM') - No measu	VM rement taken, manua	lly measured annually)				
Depth to Water(ft): 29.01 Manually Taken at Well Taken at Control Panel						
Height of Water Column(ft):						
Well Purge Required Turned pump on at flowing at gpm. Purged for minutes, minutes						
10 20 750	required per well purge spreadsheet. Turned well off at					
required per see	0 1					
Field Measurements- Date: 12/15/21 Start Time: 10:59						
Sample Time	рН	EC/MC	Temp	Well Observations		
11:00	5.37 pH	6.71 mS/Cm	22.5 °C			
Sample Appearance: Clear						
Finish Time: 11:04						
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl Total Bottles: 5						
DUP EC Reading mS/Cm	QC pH		:02	3 ysis before moving on to next well.		

C: 20.2

Sampling Team: El Sampling Method: Weather Conditions			Mall	ADTO		
Sampling Team: El Sampling Method: Weather Conditions			llweii	* ART-2		
Sampling Team: El Sampling Method: Weather Conditions		Project/Site: NERT Project - Henderson Nevada Date				
Sampling Method: Weather Conditions	M					
Weather Conditions		Collected From Sar	mple Port 🛚	Hand Bailed due to well Location		
	: Sunny					
DTW ONLY	ART-2 and ART-2	A running concu 2/2A 2021 12	rrently, bottles l 15	labeled		
Well Depth Information- Date: 12/15/21 Time: 09:52						
Total Well Depth(ft)		ally massured appually)				
('NM') - No measurement taken, manually measured annually)						
Depth to Water(ft): 32.32 ☐ Manually Taken at Well ✓ Taken at Control Panel						
Height of Water Column(ft):						
Height of Water Cor	difficient					
Well Purge Re	guired					
		wing at	gpm. Purged for _	minutes, minutes		
		eet. Turned well o				
Field Measureme	nts- Dat	e: 12/15/21	Star	rt Time: 11:04		
Sample Time	рН	EC/MC	Temp	Well Observations		
11:05	6.31 pH	13.75 mS/Cm	22.1			
Sample Appearance	: Clear					
Finish Time: 11:08						
	CLO4		CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl		
Analyses: Bottles:	1btl	1btl /				
The same of the sa		1bti				
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		1bti		Total Bottles: 5		
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		n lou				

			Well	* ART-2A
Project/Site: NERT P	roiect - Henderson	Nevada	Date	(s): 12/15/21
Sampling Team: El				
Sampling Method:		Collected From Sam	ple Port 🛚	Hand Bailed due to well Location
Weather Conditions	: Sunny			
	ART-2 and ART-2	A running concur 2/2A 2021 12 1		abeled
Well Depth Inform	nation- Date:	: 12/15/21	Time	e: 10:23
Total Well Depth(ft)	: NM easurement taken, manua	lly measured annually)		
Depth to Water(ft):	OL. 10	Manually Taken at	Well	Taken at Control Panel
Height of Water Col	umn(ft):			
	n at, flow		f at	minutes, minutes
Field Measureme	nts- Date			t Time:
Sample Time	рН	EC/MC	Temp	Well Observations
	рН	mS/Cm	°C	See ART-2 Sampling Field Log for Field Measurements
Sample Appearance	: Clear			
Finish Times				
Finish Time.				
Finish Time: Analyses: Bottles:	CLO4 1btl		CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
Analyses:				

	LDT
29	Well: ART-3
Project/Site: NERT Project - Henderson Nevada	Date(s): 12/15/21
Sampling Team: EM	
Sampling Method: Gollected From Sample F	Port Hand Bailed due to well Location
Weather Conditions: Sunny	
DTW ONLY	
Well Depth Information- Date: 12/15/21	Time: 09:52
Total Well Depth(ft): NM ('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 34.59 Manually Taken at Well	✓ Taken at Control Panel
Height of Water Column(ft):	
Well Purge Required	
Turned pump on at, flowing at gpm. F	Purged for minutes, minutes
required per well purge spreadsheet. Turned well off at _	·
Field Measurements- Date:	Start Time:
Sample Time pH EC/MC	Temp Well Observations
pH mS/Cm	°C
Sample Appearance: Clear	
Finish Time:	
Analyses: CLO4 TDS/NO3 CR	CLO3 TDS/NO3/SO4/CL CRVI
Bottles: 1btl 1btl 1btl	1btl 1btl 1btl
	Total Bottles: 5
DUP EC Reading QC mS/Cm pH	

			Well:	ART-3A
Project/Site: NERT P	roject - Hendersor	n Nevada	Date	(s): 12/15/21
ampling Team: EN				
ampling Method:		Collected From Sar	mple Port 🔲 🛭	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	: 12/15/21	Time	2: 10:18
Fotal Well Depth(ft)				
	easurement taken, manu	ally measured annually)		<u> </u>
Depth to Water(ft):		Manually Taken at	Well -	Taken at Control Panel
Height of Water Col		ivianually raken as		
Height of Water Cor	arringrey.			
Well Purge Re	equired			
		wing at	gpm. Purged for _	minutes, minutes
		eet. Turned well o		
Field Measureme	nts- Dat	e: 12/15/21	Star	t Time: 11:08
Sample Time	рН	EC/MC	Temp	Well Observations
11:09	6.75 pH	10.43 mS/Cm	21 .4 °c	
Sample Appearance	e: Clear			
Finish Time: 11:11				
			<u> </u>	
Analyses:	CLO4 (CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1btl	1btl 1btl
			\smile	
				Total Bottles: 5
		1		
DUP EC Reading	QC	1		
mS/Cm	n pl	<u> </u>		

			Well	: ART-4
Project/Site: NERT Project - Henderson Nevada Date			e(s): 12/15/21	
Sampling Team: EM	И			*
Sampling Method:	V	Collected From Sa	mple Port 🔲 🛭	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY	action Det	e: 12/15/21	Time	e: 09:52
Well Depth Inforn		2: 12/13/21	TITLE	2. 05.32
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):				
		Manually Taken at	Well 🔽	Taken at Control Panel
Height of Water Col	umn(ft):			
Well Purge Re	quired			
Turned pump o	n at, flo	wing at	gpm. Purged for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme		e: 12/15/21		t Time: 11:11
Sample Time	рН	EC/MC	Temp	Well Observations
11:12	6.94 pH	7.60 mS/Cm	21.5 °C	
Sample Appearance	e: Clear			
Finish Time: 11:15				
Analyses: Bottles:	CLO4 (1btl)	TDS/NO3 1btl	CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
	\bigcup			
				Total Bottles: 5
DUP EC Reading	QC	1		
mS/Cm	рН			

			Well:	ART-4A
Project/Site: NERT Project - Henderson Nevada				(s): 12/15/21
Sampling Team: EM				
Sampling Method:	☑ Co	llected From San	nple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions: S	Sunny			
✓ DTW ONLY				
Well Depth Informati	on- Date:	12/15/21	Time	e: 10:15
Total Well Depth(ft): N	IM ement taken, manually	y measured annually)		
Depth to Water(ft): 3				
	✓ M	anually Taken at	Well	Taken at Control Panel
Height of Water Colum	n(ft):			
Well Purge Requi				
Turned pump on at	t flowi	ng atg	pm. Purged for _	minutes, minutes
required per well p	ourge spreadshee	et. Turned well of	f at	
Field Measurements	- Date:		Star	t Time:
Sample Time	рН	EC/MC	Temp	Well Observations
	рН	mS/Cm	°C	
Sample Appearance: (Clear			
Finish Time:				
,				TDS (NO2 (SOA) (S) (SDV)
Analyses:			CR CLO3	TDS/NO3/SO4/CL CRVI 1btl 1btl
Bottles: \	1btl \	1btl	1btl 1btl	150
				Total Bottles: 5
				, otal bottless.
DUP EC Reading	QC			
201 Ed Heading				
mS/Cm	рН			

		Well	ART-7A
Project/Site: NERT Project - He	nderson Nevada	Date	(s): 12/15/21
Sampling Team: EM			
Sampling Method:	☑ Collected From Sar	mple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions: Sunny			
DTW ONLY			
Well Depth Information-	Date: 12/15/21	Time	e: 09:52
Total Well Depth(ft): NM	en, manually measured annually)		
Depth to Water(ft): 30.12	Manually Taken at	: Well	Taken at Control Panel
Height of Water Column(ft):			
Well Purge Required			
Turned pump on at	, flowing at	gpm. Purged for _	minutes, minutes
required per well purge sp	readsheet. Turned well o	ff at	
Field Measurements-	Date:		t Time:
Sample Time pH	EC/MC	Temp	Well Observations
	pH mS/Cm	°C	
Sample Appearance: Clear			
Finish Time:			
Analyses: CLO4 Bottles: 1btl	TDS/NO3	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl
			Total Bottles: 5
DUP EC Reading QC mS/Cm	рН		

			We	⊪: ART-7B
Project/Site: NERT Project - Henderson Nevada				re(s): 12/15/21
Sampling Team: EM				
Sampling Method:	V	Collected From Sar	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	: 12/15/21	Tim	ne: 10:40
Total Well Depth(ft) ('NM') - No me	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		Manually Taken at	Well [Taken at Control Panel
Height of Water Col		ivialitially Takell at	Well	Traken at control (and)
Well Purge Re				
II .				minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
		e: 12/15/21	C+a	art Time: 11:15
Field Measuremen			Temp	Well Observations
Sample Time	pH	EC/MC	Temp	Well Observations
11:16	7.01 pH	8.82 mS/Cm	20.2	
Sample Appearance	: Clear			
Finish Time: 11:18				
Analyses: Bottles:	CLO4	TDS/NO3 1btl	CR CLO3	
				Total Bottles: 5
		1		
DUP EC Reading	QC			
mS/Cm	рН			

			Well	: ART-8
Project/Site: NERT Project - Henderson Nevada Date				e(s): 12/15/21
Sampling Team: EM				
Sampling Method:	☑ Co	llected From San	nple Port 🗆	Hand Bailed due to well Location
Weather Conditions: S	unny			
✓ DTW ONLY				
Well Depth Information	on- Date:	12/15/21	Tim	e: 09:52
Total Well Depth(ft): N	M ement taken, manually	measured annually)		
Depth to Water(ft): 3		medsarea amadany)		
, ,		anually Taken at	Well	Taken at Control Panel
Height of Water Column	n(ft):			
Well Purge Requir	red			
Turned pump on at	, flowi	ng atg	gpm. Purged for _	minutes, minutes
required per well p	urge spreadshee	t. Turned well of	f at	
Field Measurements-			2012 - 12 - 12 - 12 - 12 - 12 - 12 - 12	rt Time:
Sample Time	pH	EC/MC	Temp	Well Observations
		6/6	°C	
	pH	mS/Cm		
Sample Appearance: C	ieai			
rinish time.				l
Analyses:	CLO4 T	DS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl		1btl 1btl	1btl 1btl
`				
				Total Bottles: 5
DUP EC Reading	QC			
mS/Cm	рН			
n ii				

			Wel	ı: ART-8A
Project/Site: NERT P	roject - Henderso	n Nevada	Date	e(s): 12/15/21
Sampling Team: EN				
Sampling Method:	V	Collected From Sa	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	: 12/15/21	Tim	e: 10:20
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft):			
Well Purge Re	equired			
Turned pump o	n at, flo	wing at	gpm. Purged for	minutes, minutes
		eet. Turned well o		
Field Measureme	nts- Dat	e: 12/15/21	Sta	rt Time: 11:18
Sample Time	рН	EC/MC	Temp	Well Observations
11:19	6.86	13.17 mS/Cm	20.3	
Sample Appearance	e: Clear			
Finish Time: 11:22			- 100-	
Analyses: Bottles:	CLO4	TDS/NO3 1btl	CR CLO3	
				Total Bottles: 5
DUP EC Reading mS/Cm	QC			

			We	ell: ART-9
Project/Site: NERT F	Project - Henderso	n Nevada	Da	te(s): 12/15/21
Sampling Team: El	M			
Sampling Method:	V	Collected From Sar	mple Port 🗆	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inform	nation- Date	e: 12/15/21	Tir	me: 09:52
Total Well Depth(ft): NM easurement taken, manu	rally measured annually)		
Depth to Water(ft):		Manually Taken at	: Well	✓ Taken at Control Panel
Height of Water Co	lumn(ft):			
	on at, flo ell purge spreadsh	wing at neet. Turned well o	ff at	r minutes, minutes tart Time: 11:22
Sample Time	рН	EC/MC	Temp	Well Observations
11:23	7.17 pH	7.72 mS/Cm	21.2	°C
Sample Appearance	e: Clear			
Finish Time: 11:26				
Analyses: Bottles: DUP EC Reading	CLO4 1btl	TDS/NO3 1btl	CR CLO 1btl 1k	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
7.70	7.05			

mS/Cm

21.3

			Well	PC-150
Project/Site: NERT Pr	roject - Hendersor	Nevada	Date	(s): 12/15/21
Sampling Team: EM				
Sampling Method:		Collected From San	nple Port 🔲 I	Hand Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY			×	
Well Depth Inform	nation- Date	: 12/15/21	Time	e: 09:52
Total Well Depth(ft)		ally massured appually)		
Depth to Water(ft):	asurement taken, manua	any measured annually)		
Depth to Water(It).	THE CHAPTER COURT	Manually Taken at	Well 🗸	Taken at Control Panel
Height of Water Col		ivialitally rakell at		
rieight of water cor	u(10).			
Well Purge Re	quired			
		wing at §	gpm. Purged for _	minutes, minutes
11		eet. Turned well of		
Field Measureme	nts- Date	e: 12/15/21	Star	rt Time: 11:26
Sample Time	рН	EC/MC	Temp	Well Observations
11:27	7.26 pH	6.64 mS/Cm	20.1 °C	Bucket test 1.5 gpm
Sample Appearance	: Clear			18
Finish Time: 11:34				
			_	
Analyses:	CLO4		CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl \	1btl	1btl 1btl	1btl 1btl
				Total Bottles: 5
		DC 150 2	021 12 15 - FI	7

Collected at same time for same analysis before moving on to

DUP EC Reading

mS/Cm

QC

pН

next well.

Ph: 7.25 EC: 6.65 C: 20.5

			We	ell: PC-99 R2/R3	
Project/Site: NERT Project - Henderson Nevada				te(s): 12/15/21	
Sampling Team: Er					
Sampling Method:		Collected From Sar	nple Port 🛛	Hand Bailed due to well Location	
Weather Conditions	: Sunny				
✓ DTW ONLY					
Well Depth Inforn	nation- Date	: 12/15/21	Tir	me: 09:43	
Total Well Depth(ft)	: NM easurement taken, manu	ally measured annually)			
Depth to Water(ft):	12.94	Manually Taken at	Well	✓ Taken at Control Panel	
Height of Water Co	lumn(ft):				
11	n at, flo	wing at geet. Turned well o		r minutes, minutes	
Field Measureme	nts- Dat	e: 12/15/21	St	art Time: 11:39	
Sample Time	рН	EC/MC	Temp	Well Observations	
11:40	7.32 _{pH}	4.04 mS/Cm	21.7	°C	
Sample Appearance	e: Clear				
Finish Time: 11:43					
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI Bottles: 1btl 1btl 1btl 1btl 1btl 1btl					
				Total Bottles: 5	
DUP EC Reading	QC				

			Well	PC-115R
Project/Site: NERT I	Proiect - Henderso	n Nevada	Date	e(s): 12/15/21
Sampling Team: E				
Sampling Method:		Collected From Sar	mple Port 🗆	Hand Bailed due to well Location
Weather Condition	s: Sunny			
✓ DTW ONLY				
Well Depth Infor	mation- Date	e: 12/15/21	Time	e: 09:43
Total Well Depth(ft	e): NM neasurement taken, manu	ually measured annually)		
Depth to Water(ft)		rany measured amidany)		
Deptil to Water(it)	. 11.45	Manually Taken at	Well	Taken at Control Panel
Height of Water Co	olumn(ft):	in and it is a second of		
in a state of the				
Well Purge R	equired			
Turned pump	on at, flo	wing at	gpm. Purged for _	minutes, minutes
		neet. Turned well o		
Field Measureme	ents- Dat	e: 12/15/21	Star	rt Time: 11:43
Sample Time	рН	EC/MC	Temp	Well Observations
11:44	7.51	2.95	21.1	
	pH	mS/Cm	°C	
Sample Appearance				
Finish Time: 11:46)			
	_		_	
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl)	1btl	1btl 1btl	
Dotti.co.				
				Total Bottles: 5
				.orai bottics.
DUP EC Reading	QC	1		
DOT LE REGUING	1	1		
mS/Cn	n pH	4		
1115/611		2		

			Well:	PC-116R
Project/Site: NERT Pro	ject - Hendersor	n Nevada		(s): 12/15/21
Sampling Team: Emil				
Sampling Method:		Collected From Sar	mple Port 🗆 F	Hand Bailed due to well Location
Weather Conditions:	Sunny			
DTW ONLY				
Well Depth Informa	tion- Date	: 12/15/21	Time	e: 09:43
Total Well Depth(ft): ('NM') - No meas	NM surement taken, manus	ally measured annually)		
Depth to Water(ft):		Manually Taken at	: Well	Taken at Control Panel
Height of Water Colu	mn(ft):			
Well Purge Req	uired			
		wing at eet. Turned well o		minutes, minutes
<u> </u>				
Field Measurement	ts- Date	e: 12/15/21	Star	t Time: 11:46
Sample Time	рН	EC/MC	Temp	Well Observations
11:47	7.27 pH	4.25 mS/Cm	21.3 °c	
Sample Appearance:	Clear			
Finish Time: 11:50				
Analyses: Bottles:	CLO4	TDS/NO3	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl
				Total Bottles: 5
DUP EC Reading mS/Cm	QC			

				Well:	PC-117
Project/Site: NERT Proj	ject - Henderson	Nevada		Date(s	s): 12/15/21
Sampling Team: Emily					
Sampling Method:		collected From San	nple Port	□ H:	and Bailed due to well Location
Weather Conditions:	Sunny				
DTW ONLY					
Well Depth Informat	tion- Date	12/15/21		Time:	09:43
Total Well Depth(ft):		lly measured annually)			
Depth to Water(ft):					
		Manually Taken at	Well	VT	aken at Control Panel
Height of Water Colun	nn(ft):				
Well Purge Requ					
Turned pump on a	at, flov	ving at{	gpm. Purged	for	minutes, minutes
required per well	purge spreadshe	eet. Turned well o	ff at	<u>—·</u>	
Field Measurement	s- Date	e: 12/15/21		Start	Time: 11:51
Sample Time	рН	EC/MC	Temp		Well Observations
11:52	7.26 pH	4.07 mS/Cm	20.7	°C	
Sample Appearance:	Clear				
Finish Time: 11:55					
Analyses:	CLO4	TDS/NO3	CR C	CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl 1btl
					Total Bottles: 5
DUP EC Reading	QC				

			Well:	PC-118			
Project/Site: NERT P	roject - Hendersoi	n Nevada	Date(Date(s): 12/15/21			
Sampling Team: En							
Sampling Method:	V	Collected From Sar	mple Port 🛛 F	land Bailed due to well Location			
Weather Conditions	: Sunny						
DTW ONLY							
Well Depth Inforn	nation- Date	: 12/15/21	Time	: 09:43			
Total Well Depth(ft)	: NM easurement taken, manu	ally massured annually)					
		any measured annuany)					
Depth to Water(ft):			[4]	Taken at Control Panel			
		Manually Taken at	well	Taken at Control Panel			
Height of Water Co	lumn(ft):						
Well Purge Re	equired						
Turned pump o	on at, flo	wing at	gpm. Purged for _	minutes, minutes			
		eet. Turned well o					
Field Measureme	nts- Dat	e: 12/15/21	Start	t Time: 11:56			
Sample Time	рН	EC/MC	Temp	Well Observations			
11:57	7.39 _{pH}	2.84 mS/Cm	20.7 °C				
Sample Appearance	e: Clear						
Finish Time: 12:00							
				the state of the s			
Analyses:	(CLO4) (TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI			
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl			
				Total Bottles: 5			
		ส					
DUD ECD l'	II 00	II .					

DUP EC Reading	QC
2.87 mS/Cm	7.03 _{pH}
20.6 °C	

			Well:	PC-121
Project/Site: NERT P	roject - Henderson	Nevada		s): 12/15/21
		1101000		
ampling Team: En		collected From San	nple Port	and Bailed due to well Location
Veather Conditions				
veatrier conditions				
DTW ONLY				
Vell Depth Inforn	nation- Date:	: 12/15/21	Time	: 09:43
otal Well Depth(ft)): NM easurement taken, manua	elly measured annually)		
epth to Water(ft):				
	1	Manually Taken at	Well 🗸 T	Taken at Control Panel
leight of Water Co	lumn(ft):			
Well Purge Re	equired			
Turned pump of	on at, flov	ving at{	gpm. Purged for _	minutes, minutes
	ell purge spreadshe			
ield Measureme	ents- Date	e: 12/15/21	Start	Time: 12:08
Sample Time	рН	EC/MC	Temp	Well Observations
12:09	7.32 _{pH}	2.50 mS/Cm	19.3 °c	
Sample Appearanc	e: Clear			
Finish Time: 12:14				
			_	
Analyses:	CLO4		CR CLO3	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl /	1btl 1btl	1btl 1btl
			$\overline{}$	
				Total Bottles: 5
	1		.021 12 15 - EB	
DUP EC Reading	QC	Collected	for same analy	ysis before moving on to next well.
C/C		Time:12:	11	
mS/Cm	pH]	J		
	II .	PH: 8.88		

EC: 0.11 C: 20.3

			400			
			We	_{/ell:} PC-133		
Project/Site: NERT Pi	oject - Hendersor	Nevada	Da	Date(s): 12/15/21		
Sampling Team: Em						
Sampling Method:		Collected From San	nple Port 🗆	Hand Bailed due to well Location		
Weather Conditions:	Sunny					
DTW ONLY						
Well Depth Inform	nation- Date	: 12/15/21	Tir	Time: 11:33		
Total Well Depth(ft)	: NM easurement taken, manua	ally mossured annually)				
Depth to Water(ft):		any measured annuany,				
Deptil to Water(rej.		Manually Taken at	Well	Taken at Control Panel		
Height of Water Col						
			Annalis over the second			
Well Purge Re						
Turned pump o	n at, flo	wing at	gpm. Purged fo	or minutes, minutes		
required per we	ell purge spreadsh	eet. Turned well of	ff at	-		
Field Measureme	nts- Date	e: 12/15/21		Start Time: 12:15		
Sample Time	рН	EC/MC	Temp	Well Observations		
12:16	7.28 _{pH}	2.90 mS/Cm	19.9	°C		
Sample Appearance	e: Clear					
Finish Time: 12:19						
Analyses:	CLO4	TDS/NO3	CR CLO	O3 TDS/NO3/SO4/CL CRVI		
Bottles:	1btl	1btl		1btl 1btl 1btl		
				Total Bottles: 5		
DUP EC Reading	QC					

			Wel	⊫ E1-1
Project/Site: NERT I	Project - Henderso	n Nevada	Date	e(s): 12/16/21
Sampling Team: Er				
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well Location
Weather Conditions	s: Sunny			
DTW ONLY				
Well Depth Inforr	nation- Dat	e: 12/16/21	Tim	e: 11:48
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ally measured annually)		
Depth to Water(ft):	42.71			
		Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft): 0.00			
Well Purge Re	equired			
Turned pump o	n at, flo	wing at	gpm. Purged for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Dat	e: 12/16/21	Star	t Time: 11:59
Sample Time	рН	EC/MC	Temp	Well Observations
12:02	7.20 pH	6.06 mS/Cm	21.9 °c	
Sample Appearance	: clear			
Finish Time: 12:05				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
DUP EC Reading	QC			
201 Editedung				
mS/Cm	рН			

			We	⊪ E1-2		
Project/Site: NERT	Project - Henderso	n Nevada	Dat	Date(s): 12/16/21		
Sampling Team: Er	nily McGuire					
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well Location		
Weather Conditions	s: Sunny					
DTW ONLY						
Well Depth Inforr	nation- Date	e: 12/16/21	Tim	e: 11:50		
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ually measured annually)				
Depth to Water(ft):	43.68	-1				
		Manually Taken a	t Well	Taken at Control Panel		
Height of Water Co	lumn(ft): 0.00					
Well Purge Re	equired					
Turned pump o	n at, flo	wing at	gpm. Purged for _	minutes, minutes		
required per w	ell purge spreadsh	eet. Turned well o	ff at			
Field Measureme	nts- Date	e: 12/16/21	Star	t Time: 12:05		
Sample Time	рН	EC/MC	Temp	Well Observations		
12:06	7.22 pH	6.71 mS/Cm	22.0 °c			
Sample Appearance	: clear					
Finish Time: 12:09						
Analyses:	CLO4	TDS/NO3	CR CLO3	TDS/NO3/SO4/CL CRVI		
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl		
				Total Bottles: 5		
DUP EC Reading	QC					
mS/Cm	рН					
		•				

			<u></u>	. F1.0				
[I: E1-3				
Project/Site: NERT		n Nevada	Date	Date(s): 12/16/21				
Sampling Team: Er								
Sampling Method:		Collected From Sa	mple Port	Hand Bailed due to well Location				
Weather Conditions	s: Sunny							
DTW ONLY								
Well Depth Inforr	nation- Date	e: 12/16/21	Tim	e: 11:55				
Total Well Depth(ft ('NM') - No m): NM easurement taken, manu	ally measured annually)						
Depth to Water(ft):	44.10							
	V	Manually Taken at	t Well	Taken at Control Panel				
Height of Water Co	lumn(ft): 0.00							
Well Purge Re	eguired							
		wing at	gpm. Purged for	minutes, minutes				
		eet. Turned well o						
Field Measureme	nts- Dat	e: 12/16/21	Star	t Time: 12:09				
Sample Time	рН	EC/MC	Temp	Well Observations				
12:10	7.40 pH	5.01 mS/Cm	21.5 °C					
Sample Appearance	e: clear							
Finish Time: 12:12								
Analyses: CLO4 TDS/NO3 CR CLO3 TDS/NO3/SO4/CL CRVI								
Bottles:	1btl	1btl	1btl 1btl	1btl 1btl				
				Total Bottles: 5				
DUP EC Reading	QC							
ms/cm								
III3/CIII	mS/Cm pH							

			1		
					: E2-1
Project/Site: NERT I	Project - Henderso	n Nevada		Date	(s): 12/16/21
Sampling Team: Er	mily McGuire				
Sampling Method:	V	Collected From Sa	mple Port		Hand Bailed due to well Location
Weather Conditions	s: Sunny				
DTW ONLY					
Well Depth Inforr	mation- Date	e: 12/16/21		Time	: 12:15
Total Well Depth(ft	No. of the second secon	ally massyrad annually)			
Depth to Water(ft):	easurement taken, manu 40.40	ally measured annually)			
		Manually Taken at	t Well	П	Taken at Control Panel
Height of Water Co					
Well Purge Re	equired				
Turned pump o	n at, flo	wing at	gpm. Purged	for _	minutes, minutes
required per we	ell purge spreadsh	eet. Turned well o	ff at	<u>.</u>	
Field Measureme	nts- Date	e: 12/16/21		Start	Time: 12:15
Sample Time	pH	EC/MC	Temp		Well Observations
12:16	7.40 pH	3.76 mS/Cm	24.2	°C	
Sample Appearance	e: clear				
Finish Time: 12:20					
Analyses:	CLO4	TDS/NO3	CR CL	_03	TDS/NO3/SO4/CL CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl 1btl
					Total Bottles: 5
DUP EC Reading mS/Cm	QC pH		Collecter	d é	ozi iz 16 -FD at same time for same before moving on to
L °C	I				

PH: 7.40 EC: 3.74 °C: 74.5

				Well: E2-2		
Project/Site: NERT I	Project - Henderso	n Nevada		Date(s): 12/16	3/21	
Sampling Team: Er	nily McGuire					
Sampling Method:	V	Collected From Sa	mple Port	Hand Baile	d due to well Loc	ation
Weather Conditions	s: Sunny					
DTW ONLY						
Well Depth Inforr	nation- Dat	e: 12/16/21		Time: 12:21		
Total Well Depth(ft	**************************************	W				
Depth to Water(ft):	94 St. 1940 W	ually measured annually)				
Bepair to Water(it).	· ·	Manually Taken a	t Well	Taken at Co	ontrol Panel	
Height of Water Co		1				
Well Purge Re	quired					
Turned pump o	n at flo	wing at	gpm. Purged	l for m	inutes,	_ minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at			
Field Measureme		e: 12/16/21		Start Time: 12:		
Sample Time	pН	EC/MC	Temp		Well Observ	ations
12:22	7.27 pH	4.35 mS/Cm	24.1	°C		
Sample Appearance	e: clear					
Finish Time: 12:26						0
Analyses:	(CLO4)				NO3/SO4/CL)	CRVI
Bottles:	1btl \	1btl	1btl	1btl	1btl	1btl
				Total B	ottles: 5	_
DUP EC Reading	QC				12 16	
		Col	lected	for so	ome and	alysis
mS/Cm	рH	be	fore	movina	on to	next
°C		W	cll.	Time!	on to	
	-	112.050		1 10		

PH: 8.62 EC: 0.06 9: 20.3

			r==	
			Wel	ı: E2-3
Project/Site: NERT P	Project - Henderso	n Nevada	Date	e(s): 12/16/21
Sampling Team: En				
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well Location
Weather Conditions	: Sunny			
DTW ONLY				
Well Depth Inforn	nation- Date	e: 12/16/21	Tim	e: 12:27
Total Well Depth(ft)		ally measured annually)		
Depth to Water(ft):		Manually Taken at	t Well	Taken at Control Panel
Height of Water Col		paa.r rancir at		
Well Purge Re				
				minutes, minutes
required per we	en purge spreadsn	eet. Turned well o	II dt	
Field Measuremen	nts- Date	e: 12/16/21	Star	t Time: 12:27
Sample Time	рН	EC/MC	Temp	Well Observations
12:28	7.19 pH	5.28 mS/Cm	24.4 °C	
Sample Appearance	: clear			
Finish Time: 12:30				
Analyses: Bottles:	CLO4 1btl	TDS/NO3 1btl	CR CLO3 1btl 1btl	TDS/NO3/SO4/CL CRVI 1btl 1btl Total Bottles: 5
		í		
DUP EC Reading	QC			
mS/Cm	рН			

				Well: E2	-4
Project/Site: NERT	Project - Hendersc	n Nevada		Date(s): 12	2/16/21
Sampling Team: E	mily McGuire				
Sampling Method:	V	Collected From Sa	mple Port	Hand B	ailed due to well Location
Weather Condition	s: Sunny		,		
DTW ONLY					
Well Depth Inform	mation- Date	e: 12/16/21		Time: 12:32	
Total Well Depth(ft ('NM') - No m): NM neasurement taken, manu	ually measured annually)			
Depth to Water(ft):	41.41				
	V	Manually Taken at	Well	Taken a	t Control Panel
Height of Water Co	lumn(ft): 0.00				
Well Purge Re	equired				
Turned pump o	on at, flo	wing at {	gpm. Purged	for	_ minutes, minutes
required per w	ell purge spreadsh	eet. Turned well of	ff at	_•	
Field Measureme	nts- Date	e: 12/16/21		Start Time:	12:32
Sample Time	рН	EC/MC	Temp		Well Observations
12:35	7.20 pH	5.86 mS/Cm	23.7	°C	
Sample Appearance	e: clear				
Finish Time: 12:38					
Analyses: Bottles:	CLO4 1btl			1btl	DS/NO3/SO4/CL CRVI 1btl 1btl al Bottles: 5
DUP EC Reading	QC				
5.83	6.98				

рН

mS/Cm

23.8

			w	ell: E2-5
Project/Site: NERT	Project - Henderso	on Nevada	Da	nte(s): 12/16/21
Sampling Team: E	mily McGuire			
Sampling Method:	V	Collected From Sa	mple Port	Hand Bailed due to well Location
Weather Condition	s: Sunny			
DTW ONLY				
Well Depth Infor	mation- Dat	e: 12/16/21	Tir	ne: 12:39
Total Well Depth(ft ('NM') - No m		ually measured annually)		
Depth to Water(ft):		V		
	V	Manually Taken a	t Well	Taken at Control Panel
Height of Water Co	lumn(ft): 0.00			
Well Purge Re	equired			
Turned pump o	on at, flo	wing at	gpm. Purged for	minutes, minutes
required per w	ell purge spreadsh	eet. Turned well o	ff at	
Field Measureme	nts- Dat	e: 12/16/21	Sta	art Time: 12:39
Sample Time	рН	EC/MC	Temp	Well Observations
12:40	7.22 pH	6.45 mS/Cm	23.8	
Sample Appearance	e: clear w/floatio	es		
Finish Time: 12:43				
			\ \ \	
Analyses:	(CLO4)		CR CLO3	
Bottles:	1btl	1btl	1btl 1bt	1btl 1btl
				Total Bottles: 5
				Total Bottles
DUP EC Reading	QC			
mS/Cm	рН			



ETI Daily Sampling Log Sheet

Date: 12 8	3/21	Well Field(s): 1WF M	id West Start Time:	Pinish Time: 1000
	Time Out		Signature	Company/Purpose
	noo	Emily Mcquire	77 11 1 -	ETI/Samping
Time			Observation	
080b 1003 1020	Presi	ampling prepreted meter.		
1059 1100 1132 1200	Star Sam	ted I-AB E upled West upled Middle	e	
		Completed	9.11	

DAILY SAMPLING RIG INSPECTION SHEET

Date:	12/8/21	Completed By: YMILL WI.
Pre Sar	mpling Safety Meeti	ng- Time! 100%
	o be sampled today:	INF Middle West
Danger	s and hazards with we	Ils to be sampled:
Name:		6 M / O ·
Name:		Signature:
Sampl	ing Equipment Inspe	ection- Time: D09
i i	tems To Be Checked	Issues Found N/A 🗹
□ Со	olers	
☐ Fo	rms	
□ рН	l probe (calibrated)	
□ DT	ΓW meter	
□ Va	ault Keys	
□ w	ater	
□ PP	PE	
Vehic	le Inspection-	Time: 1012
	Items To Be Checked	Issues Found N/A 🗹
ПТ	res and Lug Nuts	
□ St	teering Wheel	
☐ Li	ghts	
□ н	orn	
□ Ra	adiator Fluid	
□ Er	ngine Oil	
□ Pa	arking Brake	
□ В	rakes and Brake Fluid	
Check	(Gauges	
	il Light	
□ в	attery Light	



HANNA	Time/Analyst	
Known Value	1288	
Temp Comp Value	25	10
Calibration Value	1295	10.20
Standard Temp	25.1	400
Changed B	uffers Yes ☑	

	Time/Analyst		
Known Value	7.0	8.0	
Calibration Value	7.01	8.02	1024
Buffer Temp	25.3	25.4	W SM
Cha	nged Buffers	Yes □	

	Dupl	icate EC Read	ing(s)	
Well	1st EC	1st Temp	2nd EC	2nd Temp
T-L	6.36	24.7	6.35	24.7
I-M	7.92	7.90 m	7.90	75.9
		26.1		

QC's	
7.04	
7.03	
	-
Closing QC	
7.64	

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:



ETI Daily Sampling Log Sheet

Date: 12	13/21	Well Field(s): IWF	east	Start Time:	0812	Finish Time: 1730
	Time Out		The state of the s	ature	Co	mpany/Purpose
		Emily Miguire	E.Mc	2.	271	Sampling
		0 1			•	• 0
Time			Obse	ervation		
0812	Presi	ampling pro	ep			
0990	Cali	brate me	ter			
0831			elev	<i>'</i> .		
1204		ted sampli				
1230	Con	1 1 1	moli	10		
				7		
	-					
	-					
		ır) ///		

DAILY SAMPLING RIG INSPECTION SHEET

Date: 12/13/21	Completed By: Emily M.
Pre Sampling Safety Meeting-	Time: 0812
Wells to be sampled today:	WF East
Dangers and hazards with wells t	
Name: P. McCoure	Signature: 9. Ma
Name:	Signature:
Sampling Equipment Inspecti	on- Time: 0815
Items To Be Checked	Issues Found N/A
□ Coolers	
☐ Forms	
□ pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 0820
Items To Be Checked	Issues Found N/A 🖸
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
☐ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
□ Battery Light	



Date: 12 13 21

HANNA	Time/Analyst	
Known Value	1288	
Temp Comp Value	25	CM/
Calibration Value 1307		0840
Standard Temp	15.5	7 0890
Changed B	uffers Yes 🗹	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	10
Calibration Value	7.01	8.0	0843
Buffer Temp	25.3	25.5	Sm
Char	nged Buffers Y	es 🗹	

	Dup	licate EC Read	ling(s)	THE STATE OF THE S			
Well 1st EC 1st Temp 2nd EC 2nd Temp							
I-P	9.17	22.8	9.17	27.9			

QC's	
7.01	
Closing QC	
7-03	

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No:7053



ETI Daily Sampling Log Sheet

Date: 12	15/4	Well Field(s): AWF	SWF	Start Time:	0920	Finish Time: 1730	
	Time Out	Name	Sigr	nature		mpany/Purpose	
0920	1250	9. McQuire	9.1)-	211	jampling	
		0 ,	0			0	
			-				

Time			Obs	ervation			
0970	Pres	ampling pro					
0930	11	pration	7				
0943		ected PLC	el.				
1900	lef-	+ for AWF					
1015	Colle	ected manu	12 DT	W			
1/00	Sam	Sampled AWF					
1140	Sampled SWF						
1230	Sampled Swf Completed Sampling						
	, O						
-							
		Completed	1 Rv: 9	11/10	•		

DAILY SAMPLING RIG INSPECTION SHEET

Date: 12/15/21 Com	npleted By: EMILY WC
Pre Sampling Safety Meeting-	Time: 0970
Wells to be sampled today: AW	IF SWF
Dangers and hazards with wells to be	sampled: Vaults
Name: 2, McQuire	Signature: 9. May
Name:	Signature:
Sampling Equipment Inspection-	Time: 0923
Items To Be Checked	Issues Found N/A 🔟
☐ Coolers	
Forms	
☐ pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 0927
Items To Be Checked	Issues Found N/A 🔽
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
☐ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
☐ Battery Light	



Date: 12 15 21

HANNA	Time/Analyst	
Known Value	1288	
Temp Comp Value	25	0034
Calibration Value 1299		09° Gun
Standard Temp	25.7	V
Changed B	uffers Yes 🗹	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	
Calibration Value	7.01	8.01	09301
Buffer Temp	25.5	25.4	/gn
Chai	nged Buffers	′es 🗹	

	Duplicate EC Reading(s)					
Well 1st EC 1st Temp 2nd EC 2nd Temp						
ART-9	7.72	21.2	7.70	21.3		
PC-1195	2.84	20.7	2.87	20.6		
				_		

	QC's
·	7.03
	Closing QC
	7.05

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No: 7053



ETI Daily Sampling Log Sheet

Date: 121	16/21	Well Field(s): WFB	APS_	Start Time:	0923	Finish Time: 1300	
Control of the second s	Time Out			nature	Co	mpany/Purpose	
		8. McGuire	E. Me	15	ETI1.	Sampling	
						O	
Time			Obs	servation		The state of the s	
0923	Colle	ected PLC s	21				
0935	Pre	Sampling	prep				
0952		orated m					
1100		npled Borr					
1130		Completed Borman					
1202	Sor	Sampled APS					
1130		Collected manual depths for APS					
1300	Con	Completed Sampling					
	_						
		Completed	I Rv. 5) AA	b -		

DAILY SAMPLING RIG INSPECTION SHEET

Date: 2 16 21 Com	pleted By: Emily M.
Pre Sampling Safety Meeting-	Time: 0935
Wells to be sampled today: WF [3	Borman APS
Dangers and hazards with wells to be s	ampled: Borman JAPS Vaults
Name: E. McGuire	Signature: 2. Me
Name:	Signature:
	·
Sampling Equipment Inspection-	Time: 0940
Items To Be Checked	Issues Found N/A 🖭
□ Coolers	
□ Forms	
□ pH probe (calibrated)	
□ DTW meter	
□ Vault Keys	
□ Water	
□ PPE	
Vehicle Inspection-	Time: 0995
Items To Be Checked	Issues Found N/A 🖫
☐ Tires and Lug Nuts	
☐ Steering Wheel	
☐ Lights	
□ Horn	
☐ Radiator Fluid	
☐ Engine Oil	
☐ Parking Brake	
☐ Brakes and Brake Fluid	
Check Gauges	
☐ Oil Light	
□ Battery Light	



Date: 12/16/21

1288	
25	0958
1287	CM
24.9	ZW -
;	1287

	HANNA FIELD pH METER		Time/Analyst
Known Value	7.0	8.0	
Calibration Value	7.01	8.0	0952
Buffer Temp	26.3	25.1	Em
Cha	nged Buffers	∕es 🗹	

	Dupl	icate EC Read	ing(s)				
Well	Well 1st EC 1st Temp 2nd EC 2n						
I-V	6.85	21.3	6.84	21.6			
62-4	5.86	23.7	5.83	23.8			

Section C	QC's
	6.97
	6.98
	Closing QC
Γ	6.96

G9TWD Meter Heron Imstruments Dipper-T Well Depth Indicator Probe, Serial No: WD790 DTW Meter Geotech Water Level Meter, Serial No: 7053



TECHNICAL MEMORANDUM

To:	Chris Ritchie and Chris Stubbs, Ramboll
Cc:	Steve Clough, Nevada Environmental Response Trust Mia Sosa, John Crowther, Emeryville Lab Data; Ramboll David Bohmann, Tetra Tech
From:	Jesse Bunkers and James Roman
Date:	December 22, 2021
Subject:	December 2021 Monthly Las Vegas Wash Surface Water Sampling Nevada Environmental Response Trust Site Henderson, Nevada

MONTHLY SURFACE WATER SAMPLING ACTIVITIES

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the December 2021 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The ten surface water sample locations described in the *Remedial Performance Groundwater Sampling and Analysis Plan (SAP)*, *Revision 1*, dated March 2020, are shown on Figure 1. Tetra Tech collected 30 independent samples from ten sample locations within the Las Vegas Wash (the Wash) and a channel flowing into the Wash (C-1 Channel) on December 7 and 8, 2021. Sample collection within the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximate mid-water depth using the discrete hand-grab sample technique described in the SAP. During sampling of the C-1 Channel, the channel width, depth of water, and flow rate were measured and documented for each sample location in the surface water sampling logs.

Samples were stored in coolers at 4°C and transferred under chain-of-custody documentation to Eurofins TestAmerica (ETA) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids using EPA Methods 314.0, 300.1B, and SM 2540C, respectively. The ETA Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the December 2021 sampling event are as follows:

 Field personnel were not able to sample the designated location for LVW6.6-3 due to the presence of a sandbar. The sandbar extended above the water surface such that no surface water was present at the designated sample location. Due to the presence of the sandbar, and in order to uniformly space the LVW6.6 sample locations across the LVW6.6 transect, alternative sample locations were selected for sample locations LVW6.6-1, LVW6.6-2, and LVW6.6-3. The samples were collected as close as possible to the original sample locations. The adjusted sample locations were recorded with a handheld GPS as listed below:

- o LVW6.6-1: 36.08902° N, -114.99316° E
- o LVW6.6-2: 36.08916° N, -114.99318° E
- LVW6.6-3: 36.08927° N, -114.99319° E
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.

Surface water sampling logs are provided as Attachment A. Field investigation daily log and calibration certification forms are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.



CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared the December 2021 Monthly Las Vegas Wash Surface Water Sampling Summary

David S. Wilson, CEM

Principal Engineer Tetra Tech, Inc.

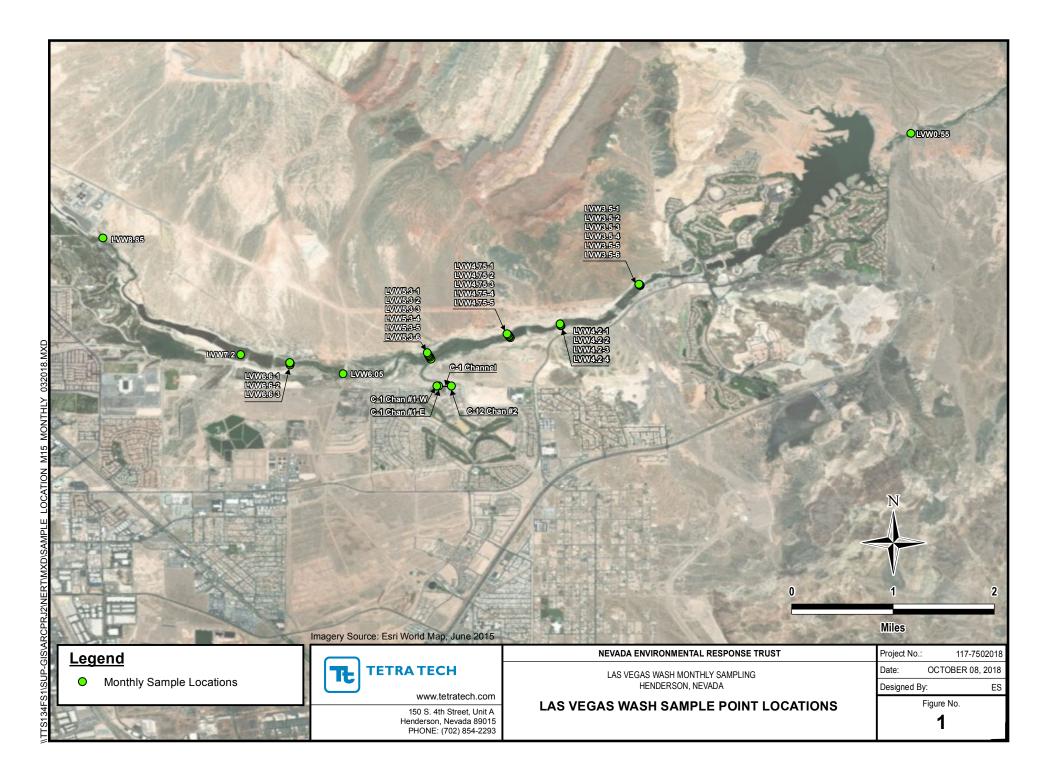
Nevada CEM Certificate Number: 2385

Nevada CEM Expiration Date: September 19, 2022

12/22/2021

Date

Figure



Attachment A Surface Water Sampling Logs

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SURFACE WATER SAMPLING LOG

Page 1 of 2

NERT, Henderson, NV

Task Name: LVW Surface Water Sampling			Task Manager: Jesse Bunkers Task No: M15			Date: 12/7/2021					
Field Samplers: G. Schuler / M. Hearn			Sampling Meth	Sampling Method: Dipper Bottle Equipment Decon. Method: DI Rinse							
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
12:45	C1-E	0.0	0.0	20.4	7.59	1.981	7.88	277.9	0.1	Clear	None
12:45	C1-W	0.0	0.0	20.6	7.50	4.136	7.67	272.4	0.2	Clear	None
10:30	LVW 4.75-1	3.0	1.5	19.0	7.86	0.906	8.03	237.4	3.7	Clear	None
10:30	LVW 4.75-2	3.0	1.5	18.9	7.90	1.877	8.33	233.9	2.0	Clear	None
10:30	LVW 4.75-3	2.0	1.0	19.2	7.95	1.829	8.22	251.4	0.1	Clear	None
10:30	LVW 4.75-4	2.0	1.0	19.3	7.94	1.825	8.26	248.5	0.6	Clear	None
10:30	LVW 4.75-5	2.0	1.0	19.3	7.95	1.819	8.28	253.0	0.4	Clear	None
11:45	LVW 5.3-1	2.0	1.0	20.2	8.00	1.801	8.21	240.5	0.4	Clear	None
11:45	LVW 5.3-2	3.0	1.5	20.4	7.98	0.898	8.23	249.0	1.7	Clear	None
11:45	LVW 5.3-3	2.0	1.0	20.2	8.00	0.887	8.29	250.8	-0.3	Clear	None
11:45	LVW 5.3-4	1.0	0.5	20.2	7.98	1.876	8.20	252.9	0.9	Clear	None
11:45	LVW 5.3-5	1.0	0.5	19.6	7.87	1.736	7.97	270.1	0.8	Clear	None
11:45	LVW 5.3-6	1.0	0.5	19.7	7.83	1.808	7.99	268.0	0.8	Clear	None
13:15	LVW 6.05	2.0	1.0	19.9	8.19	1.907	8.74	239.3	1.6	Clear	None
14:15	LVW 6.6-1	3.0	1.5	19.9	8.03	1.822	7.98	235.4	1.5	Clear	None
14:15	LVW 6.6-2	6.0	3.0	20.7	8.10	1.642	7.95	236.8	1.8	Clear	None
14:15	LVW 6.6-3	5.0	2.5	20.7	8.10	1.600	7.96	239.0	2.5	Clear	None
14:45	LVW 7.2	2.0	1.0	21.0	7.98	1.784	7.95	243.4	1.4	Clear	None
15:30	LVW 8.85	1.2	0.6	21.1	7.36	1.511	7.72	262.4	1.0	Clear	None
QA/QC Sar		207-FD	QA/QC Samples/ID: LVW6.05-20211207-FB			<u> </u> 3	QA/QC Samples/ID:				
	mple Time: 13:15		QA/QC Sample Time: 13:15				QA/QC Sample Time:				
	mples/ID: LVW7.2-1.0-202112	207-FD		•			QA/QC Samples/ID:				
*****************************	mple Time: 14:45			C Samples/ID: LVW7.2-20211207-FB C Sample Time: 14:45			QA/QC Sar				
C1-E	Flow (L/s):		C1-W	Flow (L/s):			C-12	Flow (L/s): N	o Flow		
- · -	Width (ft): 0.59 Depth (ft) <u>:</u> 0.03		Width (ft): 0.89	Depth (ft)			Width (ft):	Depth	(ft):	
Observati	Observations/Comments:										

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SURFACE WATER SAMPLING LOG

Page 2 of 2

NERT. Henderson, NV

									N	IERI, Hend	erson, NV
Task Name: LVW Surface Water Sampling			Task Manager	: Jesse Bunkers		Task No: M15		Date: 12/8/2021			
Field Sampler	rs: G. Schuler / M. Hearn		Sampling Meth	nod: Dipper Bottle		Equipment Decon	. Method: DI Rir	nse			
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
8:15	LVW 0.55	2.4	1.2	18.1	7.99	1.611	8.97	231.1	4.4	Clear	None
8:45	LVW 3.5-1	1.8	0.9	19.4	7.83	1.739	7.85	225.6	2.2	Clear	None
8:45	LVW 3.5-2	2.0	1.0	19.4	7.81	1.750	7.95	237.0	2.2	Clear	None
8:45	LVW 3.5-3	3.0	1.5	19.5	7.79	1.749	7.88	229.5	1.9	Clear	None
8:45	LVW 3.5-4	2.8	1.4	19.5	7.80	1.745	7.94	227.8	2.1	Clear	None
8:45	LVW 3.5-5	3.6	1.8	19.7	7.79	1.753	7.91	239.3	2.0	Clear	None
8:45	LVW 3.5-6	3.6	1.8	19.8	7.79	1.759	7.79	234.9	1.7	Clear	None
9:30	LVW 4.2-1	6.8	3.4	19.5	7.85	1.088	8.08	235.4	2.6	Clear	None
9:30	LVW 4.2-2	4.0	2.0	19.9	7.81	1.754	8.05	232.7	2.7	Clear	None
9:30	LVW 4.2-3	7.4	3.7	19.9	7.82	1.600	8.08	229.9	2.0	Clear	None
9:30	LVW 4.2-4	3.0	1.5	19.9	7.79	1.738	7.89	228.3	2.5	Clear	None
QA/QC San	nples/ID: LVW0.55-1.2-2021	1208-FD	QA/QC Sam	ples/ID: LVW0.5	55-20211208-FE	3	QA/QC San	nples/ID:			
QA/QC Sai	mple Time: 8:15		QA/QC Sar	mple Time: 8:15			QA/QC Sar	mple Time:			
C1-E	Flow (L/s):		C1-W	Flow (L/s):			C-12	Flow (L/s):			
	Width (ft): De	pth (ft):		Width (ft):	Depth	(f <u>t</u>):		Width (ft):	Depth	(ft):	
Observations/Comments:											

Attachment B Field Investigation Daily Logs

Tt T	ETRATECH	FIELD INVESTIGATION DAILY	LOG	Page 1 of Z		
Task Name: LVV	V Surface Water Sampling	Task Manager: Jesse Bunkers	Date: 12/7/2	NERT, Henderson, NV		
	GS, MH	1.00	Task No: M15	1		
Location: Las Ve	•	<u> </u>	Reported by: 6,			
	<u> </u>	1 11 2 1 2 2	1. (S-1. (S-1.)	schuler		
Total Vehicle Mil	Bana: avercast, c	ool High: 63°				
	ubcontractors: NONE					
	Slips, trips, falls,	Jan Variate				
nations of Salety	Slibs, Mikziterin	X1000mm				
Problems / Conc	erns and Corrective Actions Tal	ken: NOW P				
		7,57.				
Time		Activities				
0700	Med Soun	plung team at TE off	ice. Sofety n	rection attend		
	Supplies mold	e to field		9, 921		
1000	Arthue at L	VW 4.75				
1030	collect LVW	4.75-1 thru-5, mobe + 5.3-1 thru-6, mobe +	0 LVW5,3			
1145	collect LVW3	5.3-1 thru-6, mobe +	0 G-1 ch	une(
1245	Collect CI-E	and CI-W. Mobe to	5 WW6.05			
•		depth (mm) width (mm) 10 180 2524 18343270 W6:05+ Mobe to LVI				
	CI-E	16 180				
	CI-W	25 24 NFB 313 270				
1315_	collect LV	W6:05 Mobe to LVI	16.6			
1415	collect Wh	16.6-1 thru-3, mobe to 7.2 tFD, mobe to LVI 18.85, mobe to TE off	LVW7,2			
1445	collect LVW	7.2 tFD, Mobe to LVI	18.85			
1530	edlect Lu	18.85, mobe to TE of	ice,			
1605	Acrive at I	t office, Store Sampl	es/equipment	, calibrate YSI		
1700	End of day	78.85, Mobe to Tt off t office, Store Sampl				
			-611 10			
		YSI Probes 2 VSI Handhells 2	Dr16063			
		VSI Hardhelt: Z	or 1603;3	V'		
-/	27004 445 04004					
	07231, -115.019994	☑LVW5.3-6: 36.090660, -114.973903	□ LVW4.2-2: 36.09481			
-	0604, -115.000302	C1-E: 36.086147, -114.972022	LVW4.2-3: 36.094978, -114.954716			
	08902, -114.99316	QC1-W: 36.086147, -114.972022	LVW4.2-4: 36.09510			
	08916, -114.99318	12: 36.086125, -114.970255 No FIOω	LVW3.5-1: 36.100422, -114.943298			
	08927, -114.99319	ULVW4.75-1: 36.092979, -114.961810	□ LVW3.5-2: 36.10045			
☑ LVW6.05: 36.0	87849, -114.985682	12 LVW4.75-2: 36.093130, -114.961928	□ LVW3.5-3: 36.10054	□ LVW3.5-3: 36.100548, -114.943390		

LVW5.3-4: 36.090367, -114.973612 □ LVW4.2-1: 36.094695, -114.954570 □ LVW0.55: 36.122158, -114.904631 LVW5.3-5: 36.090513, -114.973758

☑ LVW5.3-1: 36.089867, -114.973112

LVW5.3-2: 36.090072, -114.973322

LVW5.3-3: 36.090218, -114.973467

LVW4.75-3: 36.093277, -114.962051

LVW4.75-4: 36.093431, -114.962174

LVW4.75-5: 36.093580, -114.962301

LVW3.5-4: 36.100585, -114.943405

□ LVW3.5-5: 36.100606, -114.943451

□ LVW3.5-6: 36.100645, -114.943493

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FIELD INVESTIGATION DAILY LOG

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NERT, Henderson, NV

	Surface Water Sampling	Task Manager: Jesse Bunkers	Date: 12/8/21
Field Personnel:	GS. M. Hearn	*	Task No: M15
Location: Las Veg		P	Reported by: G. Schuler
Weather Condition	ns: C / C 4 a l	1) 1 - /70	
Total Vehicle Milea	is: Sunny, cool	H134.61	
	ocontractors: None		
Matters of Safety:	Que tras fulls	100000000000000000000000000000000000000	20
	ردالهم ردمانا بداله	Drowning, wildlife, Sunbur	V
Problems / Concer	ms and Corrective Actions Taken:	1/01/2 -	
		10000	
Time		Activities	
0730	Meet Sampline	team at It office a	tather Supplies more to 11/20.55
0800	accive at I	VWO55/Lane meat park	gather Supplies, Mobe to WWO.55
0815	collect WW	10.55+FD+FB, Mobe +	- LUL 3.5
0845	collect 11/4/3:	5-1 thru-6, mose to	0 1411412
0930		1thru-4, mobe to	
1005	Accive at It	The Store of	ent only so ale control
1105	Haul off Sa.	alex to ETA contract	ent, pack sample coolers
1215	End day	TIES TO DIVI CONTER	
1615	ary	•	
			27 h 200 m h
	+ -		
	- I want to a second se	7 - 27 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		77.4	244 manufactures and the desiration of the second s
		48944	-94444
□ I VW9 85: 36 107	231 -115 010004	T WHE 2 C. 20 000000 114 072002	ETI 1884 0 0, 00 004047, 444 074040
		LVW5.3-6: 36.090660, -114.973903	\$7LVW4.2-2: 36.094817, -114.954612
C LVW7.2: 36.090604, -115.000302 C LVW6.6-1: 36.08902, -114.99316 C LVW6.6-2: 36.08916, -114.99318 C		□ C1-E: 36.086147, -114.972022	VLVW4.2-3: 36.094978, -114.954716
		C1-W: 36.086147, -114.972022	M LVW4.2-4: 36.095108, -114.954806
		C12: 36.086125, -114.970255	☑ LVW3.5-1: 36.100422, -114.943298
		LVW4.75-1: 36.092979, -114.961810	☑ LVW3.5-2: 36.100459, -114.943329
LVW6.05: 36.087		LVW4.75-2: 36.093130, -114.961928	☑ LVW3.5-3: 36.100548, -114.943390
LVW5.3-1: 36.089		LVW4.75-3: 36.093277, -114.962051	VLVW3.5-4: 36.100585, -114.943405
LVW5.3-2: 36.090		LVW4.75-4: 36.093431, -114.962174	72 LVW3.5-5: 36.100606, -114.943451
LVW5.3-3: 36.090		□ VW4.75-5 : 36.093580, -114.962301	☑ LVW3.5-6: 36.100645, -114.943493
LVW5.3-4: 36.09		LVW4.2-1: 36.094695, -114.954570	型 LVW0.55: 36.122158, -114.904631
LVW5.3-5: 36.090	0513, -114.973758		2
Prepared by:	s. Samles	Signature:	Date: 12/8/21

Attachment C Calibration Certification



YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: MH		DA	TE: 12/0420)
RENTAL CUSTOMER:			
INSTRUMENT INFORMATION RENTAL I.D. NUMBER: YSIPRODSS SERIAL NUMBER:	s. <u>U.3</u>	ñ	<u> </u>
CALIBRATION INFORMATION			
PARAMETER:	STANDARD:	PASS	LOT# 0579}9
 CONDUCTIVITY pH ZERO 	1,000 μMhos pH 7		०५७१५।
pH SLOPE	pH 4	4	056160
pH SLOPE	pH 10		<u>050162</u>
3. DISSOLVED OXYGEN DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mm	nHg	N/A
ZERO TEST	(Sodium Sulfite)		()0279X
4. TURBIDITY ZERO	0.0 NTU's		(200-20)
TURBIDITY SPAN	100 NTU's	_/	(Lex) 21
5. REDOX (ORP)	231mV (YSI Zobell solution)		09214

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CALIBRATION LOG - WATER QUALITY METER

Page ___ of ___

Task Name: LVW Surface Water Sampling Task No.: M15 Task No.: M15							Rental from: EQUIPCO Task Manager: Jesse Bunkers Serial Number: 20 F 16 036 3/25600297 Type: YSI ProDSS														
					Pr	e-Calibrat	ion					Post-Calibration									
Date	Time	Temp (°C)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	рН (рН = 10.0)	ORP (mV)	Cond. (mS/cm)	00 (%)	Turbidity (NTU)					
12/7/21	(1070)	19.0	4.05	6.83	9.65	234.2	1620	96.5	0.33	4-00	7.03	(0.07	238-0	100	100	0.0					
Notes:																					

Semi-Annual Groundwater Monitoring and GWETS Performance Memorandum Nevada Environmental Response Trust Site Henderson, Nevada

APPENDIX E
DATA VALIDATION SUMMARY REPORT (DVSR)
(AVAILABLE ELECTRONICALLY ON USB FLASH DRIVE)

Data Validation Summary Report
Semi-Annual Groundwater Monitoring and GWETS
Performance Sampling
July through December 2021
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

Ramboll

Emeryville, California

Prepared by

Laboratory Data Consultants, Inc. 2701 Loker Avenue West, Suite 220 Carlsbad, California 92010

April 15, 2022

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2.3	Comparability	10
2.4	Completeness	10
2.5	Sensitivity	
3.0	WET CHEMISTRY	10
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3.4	Completeness	12
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 TABLE II – Stage 2A Validation Elements
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 TABLE V – Overall Qualified Results

ATTACHMENTS

ATTACHMENT A – Metals Data Validation Report ATTACHMENT B – Wet Chemistry Data Validation Report

LIST OF ACRONYMS AND ABBREVIATIONS

DL Detection Limit
DNR Do Not Report

DQO Data Quality Objectives

DUP Duplicate

DVSR Data Validation Summary Report

EB Equipment Blank

EPA United States Environmental Protection Agency

FB Field Blank FD Field Duplicate

GWETS Groundwater Extraction and Treatment System

LCS/LCSD Laboratory Control Sample / Laboratory Control Sample Duplicate

LDC Laboratory Data Consultants, Inc.

MDL Method Detection Limit

MS/MSD Matrix Spike / Matrix Spike Duplicate

NDEP Nevada Department of Environmental Protection

NERT Nevada Environmental Response Trust

NFG National Functional Guidelines NO3/NO2-N Nitrate/Nitrite as Nitrogen

PARCCS Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity

PQL Practical Quantitation Limit

QA/QC Quality Assurance / Quality Control

RPD Relative Percent Difference SAP Sampling and Analysis Plan SDG Sample Delivery Group SQL Sample Quantitation Limit

TB Trip Blank

TDS Total Dissolved Solids
 TIN Total Inorganic Nitrogen
 TOC Total Organic Carbon
 TOX Total Organic Halides
 TRP Total Recoverable Phenolics

%R Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Groundwater Monitoring and Groundwater Extraction and Treatment System (GWETS) Performance Sampling conducted during July to December 2021 at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. Data collection and management was performed in accordance with the *Remedial Performance Sampling and Analysis Plan, Revision 1, Nevada Environmental Response Trust Site, Henderson, Nevada* (SAP Revision 1) dated March 2020 and included the collection and analyses of 719 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Metals by Environmental Protection Agency (EPA) Methods 200.7 Wet Chemistry:

Hexavalent Chromium by EPA Method 218.6

Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA Method 300.0

Nitrate/Nitrite as Nitrogen (NO3/NO2-N) and Total Inorganic Nitrogen (TIN) by Calculation

Chlorate by EPA Method 300.1B

Perchlorate by EPA Method 314.0

Ammonia as Nitrogen by EPA Method 350.1

Total Recoverable Phenolics (TRP) by EPA Method 420.4

Conductivity by Standard Method 2510B

Total Dissolved Solids (TDS) by Standard Method 2540C

Total Organic Carbon (TOC) by Standard Method 5310B

Total Organic Halides (TOX) by EPA SW 846 Method 9020B

Field pH by Field Test Method

Laboratory analytical services were provided by Eurofins. Field pH readings were recorded on the chain-of-custody at the time of sampling and reported with the analytical data. The samples were grouped into sample delivery groups (SDGs). The water samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level. An individual sample may be on multiple rows if it is reported on more than one SDG. Table II is a reference table that identifies the QC elements reviewed for each validation level per method, as applicable.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Validation Guidance* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, July 13, 2018. Consistent with the NDEP requirements, one hundred percent of the analytical data were validated according to Stage 2A data validation procedures. The number of analytical results for each method is presented in Table III.

The analytical data were evaluated for QA/QC based on the following documents: SAP Revision 1 (March 2020), USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020); and the EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 5.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQOs. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks (TB), equipment blanks (EB), field blanks (FB), field duplicates (FD), method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSD).

Before conducting the PARCCS evaluation, the analytical data were validated according to the NDEP Data Validation Guidance (July 2018), NFG (USEPA 2020), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J- <u>Estimated</u> The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.
- J+ <u>Estimated</u> The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.
- J <u>Estimated</u> The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- R <u>Rejected</u> The data is unusable (the analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.
- U Nondetected Analyses were performed for the analyte, but it was not detected.
- UJ <u>Estimated/Nondetected</u> Analyses were performed for the analyte, but it was not detected, and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.
- DNR Do Not Report A more appropriate result is reported from another analysis or dilution.

- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J The R flag will always take precedence over the J qualifier.

J+ The high bias (J+) flag is applied only to detected results.

J > J+ or J- A non-biased (J) flag will always supersede biased (J+ or J-) flags since

it is not possible to assess the direction of the potential bias.

J = J + plus J- Adding biased (J+, J-) flags with opposite signs will result in a non-

biased flag (J).

UJ = U plus J The UJ flag is used when a non-detected (U) flag is added to a non-

biased flag (J).

Table IV lists the reason codes used. Reason codes explain why flags have been applied and allow data users to assess if a result is usable with qualification due to QA/QC outliers or not usable when rejected due to QA/QC outliers. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table V presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the NDEP Data Validation Guidance (July 2018), NFG, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from reported concentrations.

Precision is expressed as the relative percent difference (RPD):

 $RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$

where:

D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the reported concentrations of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. An LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared

using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from an aqueous matrix in the absence of matrix interferences.

DUPs measure laboratory precision. DUPs are replicate samples and are prepared by taking two aliquots from one sample container. The analytical results for DUPs are reported as the RPD between the results of the two aliquots.

Laboratory and field sampling precision are evaluated by calculating RPDs for field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in the LCS/LCSD, MS/MSD, DUPs, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample heterogeneity, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, LCS, MS/MSD, and standard, for all applicable organic analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

 $%R = (A-B)/C \times 100$

where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS/LCSD, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, EBs, and FBs.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid or solid matrix. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure effectiveness of the decontamination procedure.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

 $%C = (T - R)/T \times 100$

where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the SAP Revision 1 (March 2020), with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that detection limits (DLs), and PQLs presented in the SAP Revision 1

(March 2020) are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. The method detection limits (MDLs) represent the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. Sample quantitation limits (SQLs) are adjusted MDL values that reflect sample specific actions, such as dilutions or varying aliquot sizes. PQLs are the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte. The laboratory is required to report detected analytes down to the SQL for this project. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The QA/QC criteria were met with the exceptions noted in the following sections for each analytical method.

2.0 METALS

All metals data were assessed to be valid since none of the 535 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 MS/MSD Samples

In instances where MS/MSD %Rs were above the laboratory acceptance criteria and the associated results were not detected or greater than 4X the spike concentration no data were qualified.

All MS/MSD RPDs met the laboratory acceptance criteria.

2.1.2 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the laboratory acceptance criteria.

2.1.3 FD Samples

All FD RPDs met the acceptance criteria.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria.

2.2.2 Blanks

Method blanks, EBs, and FBs were analyzed to evaluate representativeness. The concentration for an individual target analyte in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below the PQL - If a sample result was less than the PQL, the sample result was qualified as estimated (J) at the reported concentration. Reason codes are applied to distinguish if the

blank concentration was above or below the PQL.

Results Above the PQL - If a sample result and blank contaminant value were greater than the PQL and the sample result was less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration. Reason codes are applied to distinguish if the blank concentration was above or below the PQL.

<u>No Action</u> - If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not qualified.

2.2.2.1 Method Blanks

As a result of contamination found in the associated method blanks, the manganese result for sample M-7B-20210818 was qualified as detected estimated (J). The details regarding the qualification of results are provided in Attachment A.

2.2.2.2 EBs and FBs

No data were qualified due to the contaminants detected in the equipment and field blanks.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the metals data is regarded as acceptable.

2.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs were acceptable.

3.0 WET CHEMISTRY

All wet chemistry data were assessed to be valid since none of the 3,071 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Surrogate

All surrogate %Rs met the laboratory acceptance criteria.

3.1.2 MS/MSD Samples

MS/MSD samples were evaluated for anions, hexavalent chromium, chlorate, perchlorate, and total recoverable phenolics.

Eight (8) chlorate, and eight (8) nitrate as nitrogen results were qualified as detected estimated (J-) due to MS/MSD %Rs below the laboratory acceptance criteria. The bias flag (-) was removed for two (2) of the nitrate as nitrogen results because the results were also qualified for field duplicate RPD.

Twenty (20) hexavalent chromium, and 35 chlorate results were qualified as detected estimated (J+) due to MS/MSD %Rs above the laboratory acceptance criteria.

Eight (8) chlorate, and nine (9) hexavalent chromium results were qualified as detected estimated (J) due to MS/MSD %Rs both above and below the laboratory acceptance criteria.

Eight (8) chlorate results were qualified as detected estimated (J) due to an MS/MSD RPD above the laboratory acceptance criteria.

The details regarding the qualification of results are presented in Attachment B.

In instances where MS/MSD %Rs were above the laboratory acceptance criteria and the associated results were not detected or greater than 4X the spike concentration no data were qualified.

3.1.3 **DUP Samples**

DUP samples were evaluated for TDS. All DUP RPDs met the laboratory criteria.

3.1.4 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the laboratory acceptance criteria

3.1.5 FD Samples

Due to RPDs outside the acceptance criteria of \leq 30, two (2) chlorate results that were reported above the PQL in field duplicate samples E2-1-20210811 and E2-1-20210811-FD, two (2) hexavalent chromium results that were reported above the PQL in field duplicate samples ART-8-20211115 and ART-8A-20211115-FD and six (6) nitrate as nitrogen results that were reported above the PQL in field duplicate samples ART-8A-20210714 and ART-8A-20210714-FD, PC-119-20210714 and PC-119-20210714-FD, and ART-2/2A-20210915 and ART-2/2A-20210915-FD were qualified as detected estimated (J). The details regarding the qualification of results are presented in Attachment B.

Given the additional uncertainty in results reported below the PQL, no data were qualified when the RPDs were outside the QAPP acceptance criteria and the associated results in either the primary or duplicate samples were below the PQL or not detected.

3.1.6 Target Analyte Quantitation

The nitrate as nitrogen result for sample I-E-20210803 was qualified as detected estimated (J). The associated result exceeded the calibration range.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with all wet chemistry methods was conducted. All water samples met the 24-hour analysis holding time criteria for hexavalent chromium, 48-hour analysis holding time criteria for nitrite as nitrogen, and the 28-day analysis holding time criteria for ammonia as nitrogen, chloride, conductivity, phenolics, sulfate, TOC, and TOX.

Three (3) nitrate as nitrogen results were qualified as detected estimated (J-) as a result of exceeding the analysis holding time criteria of 48 hours, seven (7) TDS result was qualified as detected estimated (J-) and estimated non-detect (UJ) as a result of exceeding the analysis holding time criteria of seven days, and one (1) perchlorate result was qualified as detected estimated (J-) as a result of exceeding the analysis holding time criteria of 28 days. The initial analyses for these samples were performed within the method holding time, but the samples were re-analyzed outside the holding time because the initial analysis exceeded the calibration range or due to a QC nonconformance.

3.2.2 Blanks

Method blanks, EBs, and FBs were analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

3.2.2.1 Method Blanks

No contaminants were detected in the method blanks.

3.2.2.2 EBs and FBs

No data were qualified due to the contaminants detected in the equipment and field blanks.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target analytes detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed not reportable.

3.4 Completeness

The completeness level attained for wet chemistry field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs were acceptable.

4.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all analyses throughout the project. The analyses were conducted within all specifications of the method. For this data set TOC was analyzed by Method Standard Method 5310B, instead of Method 5310C as specified in SAP Revision 1 (March 2020). The detection limit for Method 5310C is typically lower than Method 5310B; however, TOC was detected in all of the samples collected as part of this sampling event. Therefore, the method variance does not affect data usability.

No systematic variances in analytical performance were noted in the laboratory case narratives.

5.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

5.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as surrogates, MS/MSD, DUP, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All surrogate, MS/MSD, DUP, LCS/LCSD, and field duplicate percent recoveries and RPDs met acceptance criteria and all results were within the calibration range with the exceptions noted in Sections 3.1.2, 3.1.5 and 3.1.6.

5.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All holding times were met with the exception noted in Section 3.2.1. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification due to blank contamination as noted in Section 2.2.2.1.

5.3 Comparability

Sampling frequency requirements were met in obtaining necessary field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample integrity criteria were met and sample preservation and holding times were within QC criteria with the exception noted in Section 3.2.1. The overall comparability is considered acceptable after integration of result qualification.

5.4 Completeness

Of the 3,606 total analytes reported, none of the results were rejected. The completeness for the SDGs is as follows:

	Total Number of	Number of	Percent
Parameter	Validated Results	Rejected Results	Completeness
Metals	535	0	100
Wet Chemistry:			
CrVI	400	0	100
Anions	507	0	100
NO3/NO2-N and TIN	4	0	100

Chlorate	704	0	100
Perchlorate	719	0	100
Ammonia-N	2	0	100
Total Recoverable Phenolics	4	0	100
Conductivity	4	0	100
TDS	719	0	100
TOC	4	0	100
TOX	4	0	100
Total	3,606	0	100

The completeness percentage based on rejected data met the 90 percent DQO goal.

5.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations, metals, and wet chemistry PQLs met the project requirements and low-level contamination in the method blanks, equipment blanks, and field blanks did not affect sensitivity.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the July to December 2021 Groundwater Monitoring and GWETS Performance Sampling at the NERT site in Henderson, Nevada established that the overall project requirements and completeness levels were met. No sample results included in this data set were rejected (R). Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A data validation, all other results are considered valid and usable for all purposes.

7.0 REFERENCES

- American Public Health Association 2012. Standard Method for the Examination of Water and Wastewater (22nd ed.). Washington, DC: American Public Health Association; Rice, Baird, Eaton, and Clesceri.
- NDEP 2018. NDEP Data Validation Guidance. July.
- NDEP. 2018b. Email from NDEP to the Trust regarding Multiple Results Reported. December 7.
- Ramboll 2020. Remedial Performance Sampling and Analysis Plan, Nevada Environmental Response Trust Site, Henderson, Nevada. March 9. NDEP approved April 30, 2020.
- Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.
- USEPA 1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio. March.
- USEPA 1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.+
- USEPA 2020. USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review. November.

TABLES

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
51824	5501666071	I-C-20210707	550-166607-1	07/07/21		Water	Турс	X		X	X	_	X	X	₹	H)	X		
51824	5501666071	I-F-20210707	550-166607-2		Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-X-20210707	550-166607-3		Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-N-20210707	550-166607-4		Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-E-20210707	550-166607-5		Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-M-20210707	550-166607-6	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-D-20210707	550-166607-7	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666071	I-X-20210707-EB	550-166607-8		Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501666081	I-Q-20210707	550-166608-1	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-G-20210707	550-166608-2		Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-T-20210707	550-166608-3	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-U-20210707	550-166608-4	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-H-20210707	550-166608-5	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-P-20210707	550-166608-6	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-W-20210707	550-166608-7		Stage 2A	Water	FD1	X		X	X		X	X				X		
51824	5501666081	I-O-20210707	550-166608-8	07/07/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501666081	I-W-20210707-FD	550-166608-9	07/07/21	Stage 2A	Water	FD1	X		X	X		X	X				X		
51824	5501668901	I-AA-20210712	550-166890-1	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-AB-20210712	550-166890-2	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-B-20210712	550-166890-3	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-R-20210712	550-166890-4	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-Y-20210712	550-166890-5	07/12/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-L-20210712	550-166890-6		Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-S-20210712	550-166890-7		Stage 2A	Water		X		X	X		X	X				X		
51824	5501668901	I-AR-20210712	550-166890-8		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-1-20210713	550-166991-1	07/13/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-2-20210713	550-166991-2		Stage 2A	Water	FD2	X		X	X		X	X				X		
51824	5501669911	E1-3-20210713	550-166991-3		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-1-20210713	550-166991-4		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-2-20210713	550-166991-5		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-3-20210713	550-166991-6		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-4-20210713	550-166991-7		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E2-5-20210713	550-166991-8		Stage 2A	Water		X		X	X		X	X				X		
51824	5501669911	E1-2-20210713-FD	550-166991-9		Stage 2A	Water	FD2	X		X	X		X	X				X		
51824	5501669911	E1-3-20210713-EB	550-166991-10		Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670611	ART-1A-20210714	550-167061-1	07/14/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

				Sample	Validation		QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	FIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
LDC	SDG	Client Sample ID	Lab ID	Date	Level	Matrix	Type		Ň			П			Ar	Ph	Co	-	TC	TC
51824	5501670611	ART-2/2A-20210714	550-167061-2		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-3A-20210714	550-167061-3		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-4-20210714	550-167061-4		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-7B-20210714	550-167061-5		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-8A-20210714	550-167061-6		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-9-20210714	550-167061-7		Stage 2A	Water	FD3	X		X	X		X	X				X		
51824	5501670611	PC-150-20210714	550-167061-8		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670611	ART-8A-20210714-FD	550-167061-9		Stage 2A	Water	FD3	X		X	X		X	X				X		
51824	5501670611	ART-9-20210714-EB	550-167061-10		Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670621	PC-99R2/R3-20210714	550-167062-1		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-115R-20210714	550-167062-2		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-116R-20210714	550-167062-3		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-117-20210714	550-167062-4		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-118-20210714	550-167062-5		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-119-20210714	550-167062-6		Stage 2A	Water	FD4	X		X	X		X	X				X	,	
51824	5501670621	PC-120-20210714	550-167062-7		Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-121-20210714	550-167062-8	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-133-20210714	550-167062-9	07/14/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501670621	PC-119-20210714-FD	550-167062-10	07/14/21	Stage 2A	Water	FD4	X		X	X		X	X				X		
51824	5501670621	PC-120-20210714-EB	550-167062-11	07/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
51824	5501670791	LVW4.2-1-2.0-20210713	550-167079-1	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-2-2.9-20210713	550-167079-2	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-3-3.1-20210713	550-167079-3	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.2-4-2.6-20210713	550-167079-4	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-1-1.0-20210713	550-167079-5	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-2-1.2-20210713	550-167079-6	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-3-1.6-20210713	550-167079-7	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-4-1.5-20210713	550-167079-8		Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-5-1.9-20210713	550-167079-9	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW3.5-6-1.9-20210713	550-167079-10		Stage 2A	Water							X	X				X		
51824	5501670791	LVW0.55-0.9-20210713	550-167079-11		Stage 2A	Water	FD5		1				X	X				X		
51824	5501670791	LVW5.3-1-2.7-20210713	550-167079-12		Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-2-0.9-20210713	550-167079-13		Stage 2A	Water							X	X				X		
51824	5501670791	LVW5.3-3-0.5-20210713	550-167079-14		Stage 2A	Water	†						X	X				X		
51824	5501670791	LVW5.3-4-0.6-20210713	550-167079-15		Stage 2A	Water	†						X	X				X		
51824	5501670791	LVW5.3-5-0.7-20210713	550-167079-16		Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	FOC (SM5310B)	TOX (SW9020)
51824	5501670791	LVW5.3-6-0.5-20210713	550-167079-17		Stage 2A	Water	Турс)	7	1	X	X	1	1)	X		
51824	5501670791	LVW4.75-1-1.3-20210713	550-167079-18		Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-2-1.4-20210713	550-167079-19		Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-3-1.0-20210713	550-167079-20	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-4-1.2-20210713	550-167079-21	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW4.75-5-1.2-20210713	550-167079-22		Stage 2A	Water							X	X				X		
51824	5501670791	LVW8.85-0.6-20210713	550-167079-23	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW7.2-1.0-20210713	550-167079-24	07/13/21	Stage 2A	Water	FD6						X	X				X		
51824	5501670791	LVW7.2-1.0-20210713-FD	550-167079-25	07/13/21	Stage 2A	Water	FD6						X	X				X		
51824	5501670791	LVW6.6-1-1.6-20210713	550-167079-26	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.6-2-3.1-20210713	550-167079-27	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.6-3-2.2-20210713	550-167079-28	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW6.05-0.7-20210713	550-167079-29	07/13/21	Stage 2A	Water	FD7						X	X				X		
51824	5501670792	LVW6.05-0.7-20210713-FD	550-167079-30	07/13/21	Stage 2A	Water	FD7						X	X				X		
51824	5501670791	LVW6.05-20210713-FB	550-167079-31	07/13/21	Stage 2A	Water	FB						X	X				X		
51824	5501670791	C1-E-0.0-20210713	550-167079-32	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	C1-W-0.0-20210713	550-167079-33	07/13/21	Stage 2A	Water							X	X				X		
51824	5501670791	LVW0.55-0.9-20210713-FD	550-167079-34	07/13/21	Stage 2A	Water	FD5						X	X				X		
51824	5501670791	LVW0.55-20210713-FB	550-167079-35		Stage 2A	Water	FB						X	X				X		
51824	5501672191	I-AC-20210715	550-167219-1	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-AD-20210715	550-167219-2	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-K-20210715	550-167219-3	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-J-20210715	550-167219-4		Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-Z-20210715	550-167219-5		Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-I-20210715	550-167219-6	07/15/21	Stage 2A	Water		X		X	X		X	X				X		
51824	5501672191	I-V-20210715	550-167219-7		Stage 2A	Water		X		X	X		X	X				X	,	
52311	5501682671	I-C-20210803	550-168267-1	08/03/21	Stage 2A	Water		X		X	X		X	X				X	,	
52311	5501682671	I-F-20210803	550-168267-2	08/03/21	Stage 2A	Water		X		X	X		X	X				X		Ш
52311	5501682671	I-X-20210803	550-168267-3	08/03/21	Stage 2A	Water		X		X	X		X	X				X		Ш
52311	5501682671	I-N-20210803	550-168267-4		Stage 2A	Water		X		X	X		X	X				X		Ш
52311	5501682671	I-E-20210803	550-168267-5		Stage 2A	Water		X		X	X		X	X				X		
52311	5501682671	I-M-20210803	550-168267-6		Stage 2A	Water		X		X	X		X	X				X		\sqcup
52311	5501682671	I-D-20210803	550-168267-7		Stage 2A	Water		X		X	X		X	X				X		\sqcup
52311	5501685831	LVW8.85-0.5-20210805	550-168583-1	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW7.2-1.0-20210806	550-168583-2		Stage 2A	Water	FD8						X	X				X		
52311	5501685831	LVW7.2-1.0-20210806-FD	550-168583-3	08/06/21	Stage 2A	Water	FD8						X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52311	5501685831	LVW6.6-1-2.1-20210806	550-168583-4	08/06/21	Stage 2A	Water	Турс				V	1	X	X	₹	H)	X		
52311	5501685831	LVW6.6-2-3.0-20210806	550-168583-5		Stage 2A	Water							X	X				X	-	
52311	5501685831	LVW6.6-3-2.7-20210806	550-168583-6		Stage 2A	Water							X	X				X		
52311	5501685831	LVW6.05-0.7-20210806	550-168583-7		Stage 2A	Water	FD9						X	X				X		П
52311	5501685831	LVW6.05-0.7-20210806-FD	550-168583-8		Stage 2A	Water	FD9						X	X				X		
52311	5501685831	LVW6.05-20210806-FB	550-168583-9		Stage 2A	Water	FB						X	X				X		
52311	5501685831	C1-E-0.0-20210805	550-168583-10	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	C1-W-0.0-20210805	550-168583-11		Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-1-2.5-20210806	550-168583-12		Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-2-1.1-20210806	550-168583-13		Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-3-0.3-20210806	550-168583-14	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-4-0.6-20210806	550-168583-15	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-5-0.7-20210806	550-168583-16	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW5.3-6-0.4-20210806	550-168583-17	08/06/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-1-1.0-20210805	550-168583-18	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-2-1.5-20210805	550-168583-19	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-3-1.0-20210805	550-168583-20	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-4-1.2-20210805	550-168583-21	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.75-5-1.1-20210805	550-168583-22	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-1-1.8-20210805	550-168583-23	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-2-2.4-20210805	550-168583-24	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-3-3.2-20210805	550-168583-25	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW4.2-4-1.7-20210805	550-168583-26		Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-1-1.5-20210805	550-168583-27	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-2-1.0-20210805	550-168583-28		Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-3-1.7-20210805	550-168583-29	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-4-1.6-20210805	550-168583-30		Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-5-2.0-20210805	550-168583-31	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW3.5-6-1.8-20210805	550-168583-32	08/05/21	Stage 2A	Water							X	X				X		
52311	5501685831	LVW0.55-0.9-20210805	550-168583-33		Stage 2A	Water	FD10						X	X				X		
52311	5501685831	LVW0.55-0.9-20210805-FD	550-168583-34	08/05/21	Stage 2A	Water	FD10						X	X				X		
52311	5501685831	LVW0.55-20210805-FB	550-168583-35	08/05/21	Stage 2A	Water	FB						X	X				X		
52311	5501686681	I-AA-20210809	550-168668-1	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-B-20210809	550-168668-2		Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-R-20210809	550-168668-3		Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-Y-20210809	550-168668-4	08/09/21	Stage 2A	Water	FD11	X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52311	5501686681	I-L-20210809	550-168668-5	08/09/21	Stage 2A	Water	Туре	X	4	X	X	1	X	X	₹	P)	X		
52311	5501686681	I-S-20210809	550-168668-6	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-AR-20210809	550-168668-7		Stage 2A	Water		X		X	X		X	X				X		
52311	5501686681	I-Y-20210809-FD	550-168668-8		Stage 2A	Water	FD11	X		X	X		X	X				X		
52311	5501686691	I-Q-20210809	550-168669-1	08/09/21		Water	1511	X		X	X		X	X				X		
52311	5501686691	I-G-20210809	550-168669-2		Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-T-20210809	550-168669-3	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-U-20210809	550-168669-4	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-H-20210809	550-168669-5	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-P-20210809	550-168669-6	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-W-20210809	550-168669-7		Stage 2A	Water		X		X	X		X	X				X		
52311	5501686691	I-O-20210809	550-168669-8	08/09/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-1-20210811	550-168851-1	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-2-20210811	550-168851-2	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E1-3-20210811	550-168851-3	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-1-20210811	550-168851-4	08/11/21	Stage 2A	Water	FD12	X		X	X		X	X				X		
52311	5501688511	E2-2-20210811	550-168851-5	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-3-20210811	550-168851-6	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-4-20210811	550-168851-7	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-5-20210811	550-168851-8	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688511	E2-1-20210811-FD	550-168851-9	08/11/21	Stage 2A	Water	FD12	X		X	X		X	X				X		
52311	5501688511	E2-2-20210811-EB	550-168851-10	08/11/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501688521	I-AC-20210811	550-168852-1		Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-AD-20210811	550-168852-2	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-K-20210811	550-168852-3		Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-J-20210811	550-168852-4		Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-Z-20210811	550-168852-5	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-I-20210811	550-168852-6	08/11/21	Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-V-20210811	550-168852-7		Stage 2A	Water		X		X	X		X	X				X		
52311	5501688521	I-Z-20210811-EB	550-168852-8		Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501689551	PC-99R2/R3-20210812	550-168955-1		Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-115R-20210812	550-168955-2		Stage 2A	Water		X		X	X		X	X				X	<u>_</u>	
52311	5501689551	PC-116R-20210812	550-168955-3		Stage 2A	Water		X		X	X		X	X				X	ļ	
52311	5501689551	PC-117-20210812	550-168955-4		Stage 2A	Water		X		X	X		X	X				X	ļ	
52311	5501689551	PC-118-20210812	550-168955-5		Stage 2A	Water		X		X	X		X	X				X		
52311	5501689551	PC-119-20210812	550-168955-6	08/12/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Samula ID	Lab ID	Sample	Validation Level	Matrix	QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	FIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	FOC (SM5310B)	TOX (SW9020)
52311	5501689551	Client Sample ID PC-120-20210812	550-168955-7	Date 08/12/21		Matrix Water	Type	X	2	X	X	T	X	X	⋖	Ь	0	X	T	1
52311	5501689551	PC-121-20210812	550-168955-8		Stage 2A	Water	FD13	X		X	X		X	X				X		
52311	5501689551	PC-133-20210812-EB	550-168955-9		Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501689551	PC-121-20210812-FD	550-168955-10		Stage 2A	Water	FD13	X		X	X		X	X				X		\vdash
52311	5501689551	PC-133-20210812	550-168955-11	08/12/21		Water	1013	X		X	X		X	X				X		\vdash
52311	5501689581	ART-1A-20210812	550-168958-1		Stage 2A	Water		X		X	X		X	X				X		\vdash
52311	5501689581	ART-2/2A-20210812	550-168958-2		Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-3A-20210812	550-168958-3		Stage 2A	Water		X		X	X		X	X				X		\vdash
52311	5501689581	ART-4-20210812	550-168958-4		Stage 2A	Water		X		X	X		X	X				X		
52311	5501689581	ART-7B-20210812	550-168958-5		Stage 2A Stage 2A	Water		X		X	X		X	X				X		\vdash
52311	5501689581	ART-8A-20210812	550-168958-6		Stage 2A	Water		X		X	X		X	X				X		\vdash
52311	5501689581	ART-9-20210812	550-168958-7	08/12/21	ŭ	Water		X		X	X		X	X				X		\vdash
52311	5501689581	PC-150-20210812	550-168958-8		Stage 2A	Water	FD14	X		X	X		X	X				X		
52311	5501689581	PC-150-20210812-FD	550-168958-9		Stage 2A	Water	FD14	X		X	X		X	X				X		\vdash
52311	5501689581	ART-1A-20210812-EB	550-168958-10		Stage 2A	Water	EB	X		X	X		X	X				X		
52311	5501690621	I-AB-20210816	550-169062-1		Stage 2A Stage 2A	Water	ED	X		X	X		X	X				X		\vdash
52311	5501690621	M-44-20210817	550-169157-1		Stage 2A Stage 2A	Water		X		X	Λ		Λ	X				X		\vdash
52311	5501691571	M-95-20210817	550-169157-2		Stage 2A	Water	FD15	X		X				X				X		\vdash
	5501691571	M-95-20210817 M-95-20210817-FD4	550-169157-3		Stage 2A Stage 2A	Water	FD15	X		X				X				X		\vdash
52311	5501691571	H-28A-20210817	550-169158-1		Stage 2A Stage 2A		FD13	Λ	X	Λ	X			X		X	X	X	X	X
52311	5501691581	M-37-20210818	550-169252-1		Stage 2A Stage 2A	Water		X	Λ	X	Λ			X		Λ	Λ	X	Λ	Λ
52311	5501692521	M-6A-20210818	550-169253-1		Stage 2A Stage 2A	Water		Λ	X	Λ	X			X		X	v	X	X	X
52311 52311	5501692531	M-7B-20210818	550-169253-2		Stage 2A Stage 2A	Water Water			X		X			X		X	X	X	X	X
	5501692531	M-5A-20210818	550-169253-3		Stage 2A Stage 2A	Water			X		X			X		X	X	X	X	X
52311 52311	5501693521	M-12A-20210819	550-169352-1		Stage 2A	Water		X	Λ	X	Λ			X		Λ	Λ	X	Λ	Λ
52311	5501693521	M-12A-20210819 FB4	550-169352-2		Stage 2A	Water	FD	X		X				X				X		
52311	5501693521	M-10-20210819	550-169352-3		Stage 2A	Water	ГD	Λ	X	X	X	X		X	X			X		
52311	5501693521	M-38-20210819	550-169352-4		Stage 2A	Water		X	Λ	X	Λ	Λ		X	Λ			X		
52311	5501693521	M-80-20210819	550-169352-5		Stage 2A Stage 2A	Water	<u> </u>	X		X				X				X		+-
52311	5501693521	M-11-20210819	550-169352-6		Stage 2A Stage 2A	Water		X		X				X				X		\vdash
52311	5501693521	M-11-20210819 B-11-20210819-EB4	550-169352-7		Stage 2A Stage 2A	Water	EB	X		X				X				X		\vdash
52950	5501701041	LVW8.85-1.1-20210902	550-170104-1		Stage 2A Stage 2A	Water	LD	Λ		Λ			X	X				X		\vdash
52950	5501701041	LVW7.2-1.1-20210902	550-170104-1		Stage 2A Stage 2A	Water	FD16						X	X				X		\vdash
52950	5501701041	LVW7.2-1.1-20210902 LVW7.2-1.1-20210902-FD	550-170104-2		Stage 2A Stage 2A	Water	FD16						X	X				X		+
	5501701041	LVW6.6-1-1.5-20210902-FD	550-170104-3				LDIO						X	X				X		\vdash
52950	1				Stage 2A	Water	-											X		\vdash
52950	5501701041	LVW6.6-2-3.3-20210902	550-170104-5	09/02/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	FIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52950	5501701041	LVW6.6-3-2.4-20210902	550-170104-6	09/02/21		Water	2,700		Ĺ		7		X	X	7			X		
52950	5501701041	LVW6.05-1.2-20210902	550-170104-7	09/02/21	Stage 2A	Water	FD17						X	X				X		1
52950	5501701041	LVW6.05-1.2-20210902-FD	550-170104-8	09/02/21	Stage 2A	Water	FD17						X	X				X		
52950	5501701041	LVW6.05-20210902-FB	550-170104-9	09/02/21	Stage 2A	Water	FB						X	X				X		
52950	5501701041	C1-E-0.0-20210902	550-170104-10	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	C1-W-0.0-20210902	550-170104-11	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-1-0.6-20210902	550-170104-12	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-2-1.0-20210902	550-170104-13	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-3-0.5-20210902	550-170104-14	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-4-0.7-20210902	550-170104-15	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-5-0.9-20210902	550-170104-16	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW5.3-6-0.5-20210902	550-170104-17	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-1-1.3-20210902	550-170104-18	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-2-1.3-20210902	550-170104-19	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-3-1.1-20210902	550-170104-20	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-4-1.3-20210902	550-170104-21	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.75-5-1.2-20210902	550-170104-22	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-1-2.9-20210902	550-170104-23	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-2-1.8-20210902	550-170104-24	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-3-3.2-20210902	550-170104-25	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW4.2-4-1.3-20210902	550-170104-26	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-1-0.9-20210902	550-170104-27	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-2-1.3-20210902	550-170104-28	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-3-1.6-20210902	550-170104-29	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-4-1.3-20210902	550-170104-30	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-5-1.8-20210902	550-170104-31	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW3.5-6-1.7-20210902	550-170104-32	09/02/21	Stage 2A	Water							X	X				X		
52950	5501701041	LVW0.55-1.2-20210902	550-170104-33	09/02/21	Stage 2A	Water	FD18						X	X				X		
52950	5501701041	LVW0.55-1.2-20210902-FD	550-170104-34	09/02/21	Stage 2A	Water	FD18						X	X				X		
52950	5501701041	LVW0.55-20210902-FB	550-170104-35	09/02/21	Stage 2A	Water	FB						X	X				X		
52950	5501702821	I-C-20210908	550-170282-1		Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-F-20210908	550-170282-2	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-X-20210908	550-170282-3	09/08/21	U	Water		X		X	X		X	X				X		
52950	5501702821	I-N-20210908	550-170282-4		Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-E-20210908	550-170282-5	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702821	I-M-20210908	550-170282-6	09/08/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	enc.	Client Samula ID	Libin	Sample	Validation	Matrice	QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
LDC 52950	SDG 5501702821	Client Sample ID I-D-20210908	Lab ID 550-170282-7	Date 09/08/21	Level Stage 2A	Matrix Water	Type	X	N	X	X	T	X	X	V	Ь	С	X	T	T
52950	5501702821	I-AA-20210908	550-170283-1	09/08/21	Stage 2A	Water	FD19	X		X	X		X	X				X		\vdash
52950	5501702831	I-AB-20210908	550-170283-2		Stage 2A	Water	11019	X		X	X		X	X				X		
52950	5501702831	I-B-20210908	550-170283-3		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501702831	I-R-20210908	550-170283-4	09/08/21		Water		X		X	X		X	X				X	 	
52950	5501702831	I-Y-20210908	550-170283-5		Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-L-20210908	550-170283-6	09/08/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-S-20210908	550-170283-7		Stage 2A	Water		X		X	X		X	X				X		
52950	5501702831	I-AR-20210908	550-170283-8		Stage 2A	Water		X		X	X		X	X				X	 	
52950	5501702831	I-AA-20210908-FD	550-170283-9		Stage 2A Stage 2A	Water	FD19	X		X	X		X	X				X	<u> </u>	_
52950	5501702831	I-AB-20210908-EB	550-170283-10		Stage 2A	Water	EB	X		X	X		X	X				X		
52950	5501702831	I-Q-20210909	550-170388-1		Stage 2A	Water	ED	X		X	X		X	X				X		
52950	5501703881	I-G-20210909	550-170388-2		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501703881	I-T-20210909	550-170388-3	09/09/21		Water		X		X	X		X	X				X		
52950	5501703881	I-U-20210909	550-170388-4		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501703881	I-H-20210909	550-170388-5		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501703881	I-P-20210909	550-170388-6		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501703881	I-W-20210909	550-170388-7		Stage 2A	Water		X		X	X		X	X				X		
52950	5501703881	I-O-20210909	550-170388-8	09/09/21		Water		X		X	X		X	X				X		\vdash
52950	5501705351	E1-1-20210913	550-170535-1		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501705351	E1-2-20210913	550-170535-2		Stage 2A	Water		X		X	X		X	X				X		\vdash
52950	5501705351	E1-3-20210913	550-170535-3		Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-1-20210913	550-170535-4		Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-2-20210913	550-170535-5		Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-3-20210913	550-170535-6		Stage 2A	Water	FD20	X		X	X		X	X				X		
52950	5501705351	E2-4-20210913	550-170535-7		Stage 2A	Water	1 D20	X		X	X		X	X				X	\vdash	\vdash
52950	5501705351	E2-5-20210913	550-170535-8		Stage 2A	Water		X		X	X		X	X				X		
52950	5501705351	E2-3-20210913-FD	550-170535-9		Stage 2A	Water	FD20	X		X	X		X	X				X		
52950	5501705351	E2-4-20210913-EB	550-170535-10		Stage 2A	Water	EB	X		X	X		X	X				X	\vdash	\vdash
52950	5501706341	I-AC-20210914	550-170634-1		Stage 2A	Water	20	X		X	X		X	X				X		++
52950	5501706341	I-AD-20210914	550-170634-2		Stage 2A	Water		X		X	X		X	X				X	<u> </u>	\vdash
52950	5501706341	I-K-20210914	550-170634-3		Stage 2A	Water		X		X	X		X	X				X	<u> </u>	\vdash
52950	5501706341	I-J-20210914	550-170634-4		Stage 2A	Water		X		X	X		X	X				X	\vdash	\vdash
52950	5501706341	I-Z-20210914	550-170634-5		Stage 2A	Water		X		X	X		X	X				X	\vdash	\vdash
52950	5501706341	I-I-20210914	550-170634-6		Stage 2A	Water		X		X	X		X	X				X	\vdash	\vdash
52950	5501706341	I-V-20210914	550-170634-7		Stage 2A	Water	-	X		X	X		X	X				X		\vdash

Table I. Sample Cross-Reference

INC	SDG	Client Samula ID	Lab ID	Sample	Validation	Matrix	QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
LDC 52950	5501707291	Client Sample ID ART-1A-20210915	Lab ID 550-170729-1	Date 09/15/21	Level Stage 2A	Matrix Water	Type	X	4	X	X	Т	X	X	V	Ь	(X	T	T
52950	5501707291	ART-2/2A-20210915	550-170729-2		Stage 2A	Water	FD21	X		X	X		X	X				X		
52950	5501707291	ART-3A-20210915	550-170729-3		Stage 2A	Water	1 D21	X		X	X		X	X				X		
52950	5501707291	ART-4-20210915	550-170729-4		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-7B-20210915	550-170729-5		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-8A-20210915	550-170729-6		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-9-20210915	550-170729-7		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	PC-150-20210915	550-170729-8		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707291	ART-2/2A-20210915-FD	550-170729-9		Stage 2A	Water	FD21	X		X	X		X	X				X		
52950	5501707291	ART-3A-20210915-EB	550-170729-10		Stage 2A	Water	EB	X		X	X		X	X				X		
52950	5501707301	PC-99R2/R3-20210915	550-170730-1	09/15/21	Stage 2A	Water	FD22	X		X	X		X	X				X		
52950	5501707301	PC-115R-20210915	550-170730-2		Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-116R-20210915	550-170730-3	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-117-20210915	550-170730-4	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-118-20210915	550-170730-5	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-119-20210915	550-170730-6	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-120-20210915	550-170730-7	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-121-20210915	550-170730-8	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-133-20210915	550-170730-9	09/15/21	Stage 2A	Water		X		X	X		X	X				X		
52950	5501707301	PC-99R2/R3-20210915-FD	550-170730-10	09/15/21	Stage 2A	Water	FD22	X		X	X		X	X				X		
52950	5501707301	PC-115R-20210915-EB	550-170730-11	09/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501718781	E1-1-20211006	550-171878-1	10/06/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E1-2-20211006	550-171878-2		Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E1-3-20211006	550-171878-3		Stage 2A	Water		X		X	X		X	X				X		
52949	5501718781	E2-1-20211006	550-171878-4		Stage 2A	Water		X		X	X		X	X				X	ļ	
52949	5501718781	E2-2-20211006	550-171878-5		Stage 2A	Water		X		X	X		X	X				X	ļ	
52949	5501718781	E2-3-20211006	550-171878-6		Stage 2A	Water		X		X	X		X	X				X	ļ	
52949	5501718781	E2-4-20211006	550-171878-7		Stage 2A	Water		X		X	X		X	X				X	<u> </u>	
52949	5501718781	E2-5-20211006	550-171878-8		Stage 2A	Water	FD23	X		X	X		X	X				X	<u> </u>	
52949	5501718781	E2-5-20211006-FD	550-171878-9		Stage 2A	Water	FD23	X		X	X		X	X				X	<u> </u>	
52949	5501718781	E1-1-20211006-EB	550-171878-10		Stage 2A	Water	EB	X		X	X		X	X				X	<u> </u>	
52949	5501722551	LVW8.85-1.0-20211012	550-172255-1		Stage 2A	Water							X	X				X		
52949	5501722551	LVW7.2-0.9-20211012	550-172255-2		Ü	Water	FD24						X	X				X		
52949	5501722551	LVW7.2-0.9-20211012-FD	550-172255-3		Stage 2A	Water	FD24						X	X				X		
52949	5501722551	LVW6.6-1-1.5-20211012	550-172255-4		Stage 2A	Water							X	X				X		\sqcup
52949	5501722551	LVW6.6-2-3.6-20211012	550-172255-5	10/12/21	Stage 2A	Water							X	X				X	ı	

Table I. Sample Cross-Reference

INC	SDG	Client Samula ID	Lab ID	Sample	Validation	Matrix	QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
LDC 52949	5501722551	Client Sample ID LVW6.6-3-2.0-20211012	Lab ID 550-172255-6	Date 10/12/21	Level Stage 2A	Matrix Water	Type		2	0	⋖	T	X	X	⋖	Ь		X	I	
52949	5501722551	LVW6.05-0.9-20211011	550-172255-7		Stage 2A	Water	FD25						X	X				X	=	\vdash
52949	5501722551	LVW6.05-0.9-20211011-FD	550-172255-8		Stage 2A	Water	FD25						X	X				X		\vdash
52949	5501722551	LVW6.05-20211011-FB	550-172255-9		Stage 2A	Water	FB						X	X				X	-	
52949	5501722551	C1-E-0.0-20211011	550-172255-10		Stage 2A	Water	T D						X	X				X	\rightarrow	
52949	5501722551	C1-W-0.0-20211011	550-172255-11		Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-1-2.6-20211011	550-172255-12		Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-2-0.9-20211011	550-172255-13		Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-3-1.2-20211011	550-172255-14		Stage 2A	Water							X	X				X		П
52949	5501722551	LVW5.3-4-0.7-20211011	550-172255-15		Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-5-0.9-20211011	550-172255-16	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW5.3-6-0.6-20211011	550-172255-17		Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-1-1.1-20211011	550-172255-18	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-2-1.5-20211011	550-172255-19	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-3-1.1-20211011	550-172255-20		Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-4-1.3-20211011	550-172255-21	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.75-5-1.0-20211011	550-172255-22	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-1-2.5-20211011	550-172255-23	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-2-2.3-20211011	550-172255-24	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-3-3.3-20211011	550-172255-25	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW4.2-4-1.5-20211011	550-172255-26	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-1-1.3-20211011	550-172255-27	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-2-1.0-20211011	550-172255-28	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-3-1.3-20211011	550-172255-29	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-4-1.7-20211011	550-172255-30		Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-5-1.7-20211011	550-172255-31	10/11/21	Stage 2A	Water							X	X				X		
52949	5501722551	LVW3.5-6-1.8-20211011	550-172255-32		Stage 2A	Water							X	X				X		
52949	5501722551	LVW0.55-1.0-20211011	550-172255-33	10/11/21	Stage 2A	Water	FD26						X	X				X		
52949	5501722551	LVW0.55-1.0-20211011-FD	550-172255-34	10/11/21	Stage 2A	Water	FD26						X	X				X		
52949	5501722551	LVW0.55-20211011-FB	550-172255-35		Stage 2A	Water	FB						X	X				X		
52949	5501722561	I-C-20211012	550-172256-1		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-F-20211012	550-172256-2	10/12/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-X-20211012	550-172256-3		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-N-20211012	550-172256-4		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722561	I-E-20211012	550-172256-5		Stage 2A	Water		X		X	X		X	X				X		ш
52949	5501722561	I-M-20211012	550-172256-6	10/12/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Samula ID	Lob ID	Sample	Validation	Moteir	QC	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
LDC 52949	5501722561	Client Sample ID I-D-20211012	Lab ID 550-172256-7	Date 10/12/21	Level Stage 2A	Matrix Water	Type	X	2	X	X	T	X	X	⋖	Ь		X	I	
52949	5501722611	I-AA-20211012	550-172261-1		Stage 2A	Water		X		X	X		X	X				X		\vdash
52949	5501722611	I-AB-20211012	550-172261-2		Stage 2A	Water		X		X	X		X	X				X		\vdash
52949	5501722611	I-B-20211012	550-172261-3		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-R-20211012	550-172261-4		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-Y-20211012	550-172261-5		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-L-20211012	550-172261-6		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-S-20211012	550-172261-7		Stage 2A	Water		X		X	X		X	X				X		
52949	5501722611	I-AR-20211012	550-172261-8		Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-AC-20211013	550-172353-1		Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501723531	I-AD-20211013	550-172353-2	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-K-20211013	550-172353-3		Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-J-20211013	550-172353-4	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-Z-20211013	550-172353-5	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-I-20211013	550-172353-6	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-V-20211013	550-172353-7	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723531	I-AC-20211013-FD	550-172353-8	10/13/21	Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501723531	I-AD-20211013-EB	550-172353-9	10/13/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501723551	I-Q-20211013	550-172355-1	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-G-20211013	550-172355-2	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-T-20211013	550-172355-3	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-U-20211013	550-172355-4	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-H-20211013	550-172355-5		Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-P-20211013	550-172355-6		Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-W-20211013	550-172355-7		Stage 2A	Water		X		X	X		X	X				X		
52949	5501723551	I-O-20211013	550-172355-8	10/13/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-99R2/R3-20211014	550-172460-1		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-115R-20211014	550-172460-2		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-116R-20211014	550-172460-3		Stage 2A	Water	FD27	X		X	X		X	X				X		
52949	5501724601	PC-117-20211014	550-172460-4		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-118-20211014	550-172460-5		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-119-20211014	550-172460-6		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-120-20211014	550-172460-7		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-121-20211014	550-172460-8		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-133-20211014	550-172460-9		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724601	PC-116R-20211014-FD	550-172460-10	10/14/21	Stage 2A	Water	FD27	X		X	X		X	X				X		

Table I. Sample Cross-Reference

								(7.						(0.1	350.1)	•	(2510B)			
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2:	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
52949	5501724601	PC-117-20211014-EB	550-172460-11	10/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
52949	5501724631	ART-1A-20211014	550-172463-1		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-2/2A-20211014	550-172463-2		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-3A-20211014	550-172463-3	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-4-20211014	550-172463-4	10/14/21	Stage 2A	Water	FD28	X		X	X		X	X				X	<u> </u>	
52949	5501724631	ART-7B-20211014	550-172463-5	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-8A-20211014	550-172463-6		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-9-20211014	550-172463-7		Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	PC-150-20211014	550-172463-8	10/14/21	Stage 2A	Water		X		X	X		X	X				X		
52949	5501724631	ART-4-20211014-FD	550-172463-9		Stage 2A	Water	FD28	X		X	X		X	X				X		
52949	5501724631	ART-7B-20211014-EB	550-172463-10	10/14/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501734301	PC-157B-20211101	550-173430-1	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-155B-20211101	550-173430-2	11/01/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501734301	PC-155B-20211101-EB5	550-173430-3	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-90-20211101	550-173430-4	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501734301	PC-97-20211101	550-173430-5	11/01/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-157A-20211102	550-173530-1	11/02/21	Stage 2A	Water		X			X		X	X				X	i	
53222	5501735301	ART-6-20211102	550-173530-2	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-12A-20211102	550-173530-3	11/02/21	Stage 2A	Water		X		X	X		X	X				X	i	
53222	5501735301	M-189-20211102	550-173530-4	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-193-20211102	550-173530-5	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-155A-20211102	550-173530-6	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-190-20211102	550-173530-7	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	M-191-20211102	550-173530-8	11/02/21	Stage 2A	Water		X			X		X	X				X	i	
53222	5501735301	M-11-20211102	550-173530-9	11/02/21	Stage 2A	Water	FD29	X		X	X		X	X				X	i	
53222	5501735301	M-11-20211102-FD4	550-173530-10	11/02/21	Stage 2A	Water	FD29	X		X	X		X	X				X		
53222	5501735301	M-192-20211102	550-173530-11	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-136-20211102	550-173530-12	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-137D-20211102	550-173530-13	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-53-20211102	550-173530-14	11/02/21	Stage 2A	Water		X			X		X	X				X	i i	
53222	5501735301	MW-K5-20211102	550-173530-15	11/02/21	Stage 2A	Water		X			X		X	X				X	i	
53222	5501735301	ARP-7-20211102	550-173530-16		Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-7-20211102-FB6	550-173530-17		Stage 2A	Water	FB	X			X		X	X				X		
53222	5501735301	ARP-6B-20211102	550-173530-18	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-5A-20211102	550-173530-19		Stage 2A	Water		X			X		X	X				X	\sqcap	
53222	5501735301	ARP-3A-20211102	550-173530-20		Stage 2A	Water		X			X		X	X				X	\sqcap	

Table I. Sample Cross-Reference

														(50.1)		0B)			
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501735301	MW-K4-20211102	550-173530-21	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-158-20211102	550-173530-22	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-91-20211102	550-173530-23		Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-91-20211102-FB5	550-173530-24	11/02/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501735301	PC-94-20211102	550-173530-25	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-122-20211102	550-173530-26	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	ARP-2A-20211102	550-173530-27	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501735301	PC-122-20211102-EB6	550-173530-28	11/02/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501735301	PC-101R-20211102	550-173530-29	11/02/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-124-20211103	550-173618-1	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-126-20211103	550-173618-2	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-126-20211103-EB7	550-173618-3	11/03/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501736181	PC-127-20211103	550-173618-4	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-18-20211103	550-173618-5	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-55-20211103	550-173618-6	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-130-20211103	550-173618-7	11/03/21	Stage 2A	Water	FD30	X			X		X	X				X		
53222	5501736181	PC-130-20211103-FD6	550-173618-8	11/03/21	Stage 2A	Water	FD30	X			X		X	X				X		
53222	5501736181	PC-152-20211103	550-173618-9	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-48A-20211103	550-173618-10	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-44-20211103	550-173618-11	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736181	PC-132-20211103	550-173618-12	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-153R-20211103	550-173618-13	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-151-20211103	550-173618-14	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	ARP-1-20211103	550-173618-15	11/03/21	Stage 2A	Water	FD31	X			X		X	X				X		
53222	5501736181	ARP-1-20211103-FD7	550-173618-16	11/03/21	Stage 2A	Water	FD31	X			X		X	X				X		
53222	5501736181	PC-154-20211103	550-173618-17	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-159-20211103	550-173618-18	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-186D-20211103	550-173618-19	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-35-20211103	550-173618-20	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-19-20211103	550-173618-21	11/03/21	Stage 2A	Water		X			X		X	X				X		П
53222	5501736181	M-68-20211103	550-173618-22		Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-67-20211103-FB7	550-173618-23		Stage 2A	Water	FB	X			X		X	X				X	$\neg \neg$	
53222	5501736181	M-67-20211103	550-173618-24		Stage 2A	Water		X			X		X	X				X		
53222	5501736181	M-31A-20211103	550-173618-25	11/03/21	Stage 2A	Water		X			X		X	X				X	$\neg \neg$	
53222	5501736181	PC-123-20211103	550-173618-26		Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-129-20211103	550-173618-27		Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501736181	PC-129-20211103-FB8	550-173618-28	11/03/21	Stage 2A	Water	FB	X			X		X	X	,			X		
53222	5501736181	PC-131-20211103	550-173618-29	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-160-20211103	550-173618-30	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-144-20211103	550-173618-31	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736181	PC-134D-20211103	550-173618-32	11/03/21	Stage 2A	Water		X			X		X	X				X		
53222	5501736311	E1-1-20211103	550-173631-1	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E1-2-20211103	550-173631-2	11/03/21	Stage 2A	Water	FD32	X		X	X		X	X				X		
53222	5501736311	E1-3-20211103	550-173631-3	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-1-20211103	550-173631-4	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-2-20211103	550-173631-5	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-3-20211103	550-173631-6	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-4-20211103	550-173631-7	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E2-5-20211103	550-173631-8	11/03/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501736311	E1-2-20211103-FD	550-173631-9	11/03/21	Stage 2A	Water	FD32	X		X	X		X	X				X		
53222	5501736311	E1-3-20211103-EB	550-173631-10	11/03/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501737731	M-10-20211104	550-173773-1	11/04/21	Stage 2A	Water			X	X	X	X	X	X	X			X		
53222	5501737731	M-52-20211104	550-173773-2	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-73-20211104	550-173773-3	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-74-20211104	550-173773-4	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-81A-20211104	550-173773-5	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-83-20211104	550-173773-6	11/04/21	Stage 2A	Water	FD33	X			X		X	X				X		
53222	5501737731	M-83-20211104-FD8	550-173773-7	11/04/21	Stage 2A	Water	FD33	X			X		X	X				X		
53222	5501737731	M-80-20211104	550-173773-8	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-80-20211104-EB4	550-173773-9	11/04/21	_	Water	EB	X		X	X		X	X				X		
53222	5501737731	PC-135A-20211104	550-173773-10	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-148-20211104	550-173773-11	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-149-20211104	550-173773-12	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-37-20211104	550-173773-13	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-72-20211104	550-173773-14	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-69-20211104	550-173773-15	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-156A-20211104	550-173773-16	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-156B-20211104	550-173773-17	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-95-20211104	550-173773-18	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	M-95-20211104-FB4	550-173773-19	11/04/21	Stage 2A	Water	FB	X		X	X		X	X				X		
53222	5501737731	M-23-20211104	550-173773-20	11/04/21	υ	Water		X			X		X	X				X		
53222	5501737731	M-71-20211104	550-173773-21	11/04/21	Stage 2A	Water		X			X		X	X				X		

Table I. Sample Cross-Reference

								(-						(0:	350.1)		(2510B)			
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (25	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501737731	M-162D-20211104	550-173773-22	11/04/21	Stage 2A	Water		X			X		X	X				X	<u> </u>	
53222	5501737731	M-161D-20211104	550-173773-23	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-22A-20211104	550-173773-24		Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-25-20211104	550-173773-25	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	M-14A-20211104	550-173773-26	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	ARP-4A-20211104	550-173773-27	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-60-20211104	550-173773-28	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737731	PC-60-20211104-EB8	550-173773-29	11/04/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501737731	M-38-20211104	550-173773-30	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737731	PC-72-20211104	550-173773-31	11/04/21	Stage 2A	Water		X			X		X	X				X		
53222	5501737751	I-C-20211104	550-173775-1	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-F-20211104	550-173775-2	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-X-20211104	550-173775-3	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-N-20211104	550-173775-4	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-E-20211104	550-173775-5	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-M-20211104	550-173775-6	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-D-20211104	550-173775-7	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737751	I-C-20211104-EB	550-173775-8	11/04/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501737761	I-AA-20211104	550-173776-1	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-AB-20211104	550-173776-2	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-B-20211104	550-173776-3	11/04/21	Stage 2A	Water	FD33	X		X	X		X	X				X		
53222	5501737761	I-R-20211104	550-173776-4	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-Y-20211104	550-173776-5	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-L-20211104	550-173776-6	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-S-20211104	550-173776-7	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-AR-20211104	550-173776-8	11/04/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501737761	I-B-20211104-FD	550-173776-9	11/04/21	Stage 2A	Water	FD33	X		X	X		X	X				X		
53222	5501738581	PC-54-20211105	550-173858-1	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-98R-20211105	550-173858-2		Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-103-20211105	550-173858-3	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-56-20211105	550-173858-4		Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-58-20211105	550-173858-5		Stage 2A	Water	FD34	X			X		X	X				X		
53222	5501738581	PC-58-20211105-FD5	550-173858-6		Stage 2A	Water	FD34	X			X		X	X				X		
53222	5501738581	M-64-20211105	550-173858-7	11/05/21	Stage 2A	Water		X			X	1	X	X				X		
53222	5501738581	M-65-20211105	550-173858-8		Stage 2A	Water		X			X	1	X	X				X		
53222	5501738581	M-66-20211105	550-173858-9		Stage 2A	Water		X			X	1	X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501738581	M-70-20211105	550-173858-10	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-70-20211105-EB9	550-173858-11	11/05/21	Stage 2A	Water	EB	X			X		X	X				X		
53222	5501738581	M-79-20211105	550-173858-12	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-135-20211105	550-173858-13	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-57A-20211105	550-173858-14	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	M-57A-20211105-FB9	550-173858-15	11/05/21	Stage 2A	Water	FB	X			X		X	X				X		
53222	5501738581	PC-62-20211105	550-173858-16	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501738581	PC-59-20211105	550-173858-17	11/05/21	Stage 2A	Water	FD35	X			X		X	X				X		
53222	5501738581	PC-59-20211105-FD9	550-173858-18	11/05/21	Stage 2A	Water	FD35	X			X		X	X				X		
53222	5501738581	PC-71-20211105	550-173858-19	11/05/21	Stage 2A	Water		X			X		X	X				X		
53222	5501741101	I-Q-20211110	550-174110-1	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-G-20211110	550-174110-2	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-T-20211110	550-174110-3	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-U-20211110	550-174110-4	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-H-20211110	550-174110-5	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-P-20211110	550-174110-6	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-W-20211110	550-174110-7	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501741101	I-O-20211110	550-174110-8	11/10/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-99R2/R3-20211115	550-174306-1	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-115R-20211115	550-174306-2	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-116R-20211115	550-174306-3	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-117-20211115	550-174306-4	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-118-20211115	550-174306-5	11/15/21	Stage 2A	Water	FD36	X		X	X		X	X				X		
53222	5501743061	PC-119-20211115	550-174306-6	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-120-20211115	550-174306-7	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-121-20211115	550-174306-8	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-133-20211115	550-174306-9	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743061	PC-118-20211115-FD	550-174306-10	11/15/21	Stage 2A	Water	FD36	X		X	X		X	X				X		
53222	5501743061	PC-119-20211115-EB	550-174306-11	11/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501743091	ART-1A-20211115	550-174309-1	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-2/2A-20211115	550-174309-2	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-3A-20211115	550-174309-3	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-4-20211115	550-174309-4	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-7B-20211115	550-174309-5	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-8-20211115	550-174309-6	11/15/21	C	Water	FD37	X		X	X		X	X				X		
53222	5501743091	ART-9-20211115	550-174309-7	11/15/21	Stage 2A	Water		X		X	X		X	X				X		

Table I. Sample Cross-Reference

								0.7)					(1	(4.0)	(350.1)	4)	(2510B)		B)	
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2	TDS (2540C)	TOC (SM5310B)	TOX (SW9020)
53222	5501743091	PC-150-20211115	550-174309-8	11/15/21	Stage 2A	Water		X		X	X		X	X				X		
53222	5501743091	ART-8A-20211115-FD	550-174309-9	11/15/21	Stage 2A	Water	FD37	X		X	X		X	X				X		
53222	5501743091	ART-9-20211115-EB	550-174309-10	11/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53222	5501743971	LVW8.85-1.1-2021116-20211116	550-174397-1	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW7.2-1.0-20211116	550-174397-2	11/16/21	Stage 2A	Water	FD38						X	X				X		
53222	5501743971	LVW7.2-1.0-20211116-FD	550-174397-3	11/16/21	Stage 2A	Water	FD38						X	X				X		
53222	5501743971	LVW6.6-1-1.0-20211116	550-174397-4	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.6-2-2.8-20211116	550-174397-5	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.6-3-2.7-20211116	550-174397-6	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW6.05-0.8-20211116	550-174397-7	11/16/21	Stage 2A	Water	FD39						X	X				X		
53222	5501743971	LVW6.05-0.8-20211116-FD	550-174397-8	11/16/21	Stage 2A	Water	FD39						X	X				X		
53222	5501743971	LVW6.05-20211116-FB	550-174397-9	11/16/21	Stage 2A	Water	FB						X	X				X		
53222	5501743971	C1-E-0.0-20211116	550-174397-10	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	C1-W-0.0-20211116	550-174397-11	11/16/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-1-2.6-20211115	550-174397-12	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-2-1.0-20211115	550-174397-13	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-3-1.1-20211115	550-174397-14	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-4-0.6-20211115	550-174397-15	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-5-0.7-20211115	550-174397-16	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW5.3-6-0.5-20211115	550-174397-17	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-1-1.6-20211115	550-174397-18	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-2-1.4-20211115	550-174397-19	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-3-1.1-20211115	550-174397-20	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-4-0.9-20211115	550-174397-21	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.75-5-1.2-20211115	550-174397-22	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-1-2.4-20211115	550-174397-23	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-2-3.2-20211115	550-174397-24	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-3-3.5-20211115	550-174397-25	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW4.2-4-1.8-20211115	550-174397-26	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-1-1.2-20211115	550-174397-27	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-2-1.0-20211115	550-174397-28	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-3-1.5-20211115	550-174397-29		Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-4-1.5-20211115	550-174397-30	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-5-1.8-20211115	550-174397-31	11/15/21	Stage 2A	Water							X	X				X		
53222	5501743971	LVW3.5-6-1.7-20211115	550-174397-32		Stage 2A	Water							X	X				X		
53222	5501743971	LVW0.55-0.9-20211115	550-174397-33	11/15/21	Stage 2A	Water	FD40						X	X				X		

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	IIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	FOC (SM5310B)	TOX (SW9020)
53222	5501743971	LVW0.55-0.9-20211115-FD	550-174397-34		Stage 2A	Water	FD40		4		V	Т	X	X	V	Ь	(X		1
53222	5501743971	LVW0.55-20211115-FB	550-174397-35		Stage 2A	Water	FB						X	X				X		\vdash
53222	5501744711	I-AC-20211117	550-174471-1		Stage 2A	Water	1.5	X		X	X		X	X				X	-	\vdash
53222	5501744711	I-AD-20211117	550-174471-2		Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-K-20211117	550-174471-3	11/17/21		Water		X		X	X		X	X				X		
53222	5501744711	I-J-20211117	550-174471-4		Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-Z-20211117	550-174471-5		Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-I-20211117	550-174471-6		Stage 2A	Water		X		X	X		X	X				X		
53222	5501744711	I-V-20211117	550-174471-7		Stage 2A	Water		X		X	X		X	X				X		
53295	5501754501	LVW8.85-0.6-20211207	550-175450-1		Stage 2A	Water							X	X				X		
53295	5501754501	LVW7.2-1.0-20211207	550-175450-2		Stage 2A	Water	FD41						X	X				X		
53295	5501754501	LVW7.2-1.0-20211207-FD	550-175450-3	12/07/21	Stage 2A	Water	FD41						X	X				X		
53295	5501754501	LVW6.6-1-1.5-20211207	550-175450-4	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.6-2-3.0-20211207	550-175450-5		Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.6-3-2.5-20211207	550-175450-6	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW6.05-1.0-20211207	550-175450-7	12/07/21	Stage 2A	Water	FD42						X	X				X		
53295	5501754501	LVW6.05-1.0-20211207-FD	550-175450-8	12/07/21	Stage 2A	Water	FD42						X	X				X		
53295	5501754501	LVW6.05-20211207-FB	550-175450-9	12/07/21	Stage 2A	Water	FB						X	X				X		
53295	5501754501	C1-E-0.0-20211207	550-175450-10	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	C1-W-0.0-20211207	550-175450-11	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-1-1.0-20211207	550-175450-12	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-2-1.5-20211207	550-175450-13	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-3-1.0-20211207	550-175450-14	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-4-0.5-20211207	550-175450-15	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-5-0.5-20211207	550-175450-16	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW5.3-6-0.5-20211207	550-175450-17	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-1-1.5-20211207	550-175450-18	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-2-1.5-20211207	550-175450-19	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-3-1.0-20211207	550-175450-20	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-4-1.0-20211207	550-175450-21	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.75-5-1.0-20211207	550-175450-22	12/07/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-1-3.4-20211208	550-175450-23	12/08/21	U	Water							X	X				X		
53295	5501754501	LVW4.2-2-2.0-20211208	550-175450-24	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-3-3.7-20211208	550-175450-25	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW4.2-4-1.5-20211208	550-175450-26	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-1-0.9-20211208	550-175450-27	12/08/21	Stage 2A	Water							X	X				X		

Table I. Sample Cross-Reference

								(200.7)	0.7)	(9	0.0)		300.1)	e (314.0)	Ammonia as N (350.1)	420.4)	ity (2510B)	C)	(SM5310B)	1020)
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chromium (200.7)	Metals (200.	CrVI (218.6)	Anions (300.0)	TIN (Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia	Phenolics (420.4)	Conductivity	TDS (2540C)	TOC (SMS	TOX (SW9020)
53295	5501754501	LVW3.5-2-1.0-20211208	550-175450-28	12/08/21	Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-3-1.5-20211208	550-175450-29		Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-4-1.4-20211208	550-175450-30		Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-5-1.8-20211208	550-175450-31		Stage 2A	Water							X	X				X		
53295	5501754501	LVW3.5-6-1.8-20211208	550-175450-32		Stage 2A	Water							X	X				X		
53295	5501754501	LVW0.55-1.2-20211208	550-175450-33		Stage 2A	Water	FD43						X	X				X		
53295	5501754501	LVW0.55-1.2-20211208-FD	550-175450-34		Stage 2A	Water	FD43						X	X				X		
53295	5501754501	LVW0.55-20211208-FB	550-175450-35		Stage 2A	Water	FB						X	X				X	<u> </u>	
53295	5501754551	I-AA-20211208	550-175455-1	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-AB-20211208	550-175455-2		Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-B-20211208	550-175455-3	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-R-20211208	550-175455-4		Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-Y-20211208	550-175455-5		Stage 2A	Water		X		X	X		X	X				X	<u> </u>	
53295	5501754551	I-L-20211208	550-175455-6		Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-S-20211208	550-175455-7	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754551	I-AR-20211208	550-175455-8	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-C-20211208	550-175456-1	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-F-20211208	550-175456-2	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-X-20211208	550-175456-3	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-N-20211208	550-175456-4	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-E-20211208	550-175456-5	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-M-20211208	550-175456-6	12/08/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501754561	I-D-20211208	550-175456-7	12/08/21	Stage 2A	Water	FD44	X		X	X		X	X				X		
53295	5501754561	I-D-20211208-FD	550-175456-8	12/08/21	Stage 2A	Water	FD44	X		X	X		X	X				X		
53295	5501754561	I-E-20211208-EB	550-175456-9	12/08/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501757481	I-Q - 20211213	550-175748-1	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-G - 20211213	550-175748-2	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-T - 20211213	550-175748-3	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-U - 20211213	550-175748-4	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-H - 20211213	550-175748-5	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-P - 20211213	550-175748-6	12/13/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-W - 20211213	550-175748-7		Stage 2A	Water		X		X	X		X	X				X		
53295	5501757481	I-O - 20211213	550-175748-8		Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-1A-20211215	550-175896-1	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-2/2A-20211215	550-175896-2		Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-3A-20211215	550-175896-3		Stage 2A	Water	1	X		X	X		X	X				X		

Table I. Sample Cross-Reference

								Chromium (200.7)	Metals (200.7)	CrVI (218.6)	Anions (300.0)	(Calc)	Chlorate (300.1)	Perchlorate (314.0)	Ammonia as N (350.1)	Phenolics (420.4)	Conductivity (2510B)	TDS (2540C)	(SM5310B)	TOX (SW9020)
LDC	SDG	Client Sample ID	Lab ID	Sample Date	Validation Level	Matrix	QC Type	Chron	Metals	CrVI (Anion	LIN (C	Chlora	Perchl	Amme	Pheno	Condu	TDS (TOC (TOX (
53295	5501758961	ART-4-20211215	550-175896-4	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-7B-20211215	550-175896-5	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-8A-20211215	550-175896-6	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	ART-9-20211215	550-175896-7	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758961	PC-150-20211215	550-175896-8	12/15/21	Stage 2A	Water	FD45	X		X	X		X	X				X		
53295	5501758961	PC-150-20211215-FD	550-175896-9	12/15/21	Stage 2A	Water	FD45	X		X	X		X	X				X		
53295	5501758961	ART-1A-20211215-EB	550-175896-10	12/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501758971	PC-99R2/R3 - 20211215	550-175897-1	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-115R - 20211215	550-175897-2	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-116R - 20211215	550-175897-3	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-117 - 20211215	550-175897-4	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-118 - 20211215	550-175897-5	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-119 - 20211215	550-175897-6	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-120 - 20211215	550-175897-7	12/15/21	Stage 2A	Water	FD46	X		X	X		X	X				X		
53295	5501758971	PC-121 - 20211215	550-175897-8	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-133 - 20211215	550-175897-9	12/15/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501758971	PC-120-20211215-FD	550-175897-10	12/15/21	Stage 2A	Water	FD46	X		X	X		X	X				X		
53295	5501758971	PC-121 - 20211215 - EB	550-175897-11	12/15/21	Stage 2A	Water	EB	X		X	X		X	X				X		
53295	5501759881	I-AC - 20211216	550-175988-1	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-AD - 20211216	550-175988-2	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-K - 20211216	550-175988-3	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-J - 20211216	550-175988-4	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-Z - 20211216	550-175988-5	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-I - 20211216	550-175988-6	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759881	I-V - 20211216	550-175988-7	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-1-20211216	550-175989-1	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-2-20211216	550-175989-2	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E1-3-20211216	550-175989-3	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-1-20211216	550-175989-4	12/16/21	Stage 2A	Water	FD47	X		X	X		X	X				X		
53295	5501759891	E2-2-20211216	550-175989-5		Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-3-20211216	550-175989-6		Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-4-20211216	550-175989-7	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-5-20211216	550-175989-8	12/16/21	Stage 2A	Water		X		X	X		X	X				X		
53295	5501759891	E2-1-20211216-FD	550-175989-9	12/16/21	Stage 2A	Water	FD47	X		X	X		X	X				X		
53295	5501759891	E2-2-20211216-EB	550-175989-10	12/16/21	Stage 2A	Water	EB	X		X	X		X	X				X		

Table II. Stage 2A Validation Elements

		Stage 2A	
Quality Control Elements	VOCs	Metals	Wet Chemistry
Sample Receipt & Technical Holding Time	$\sqrt{}$	√	√
Instrument Performance Check	-	-	-
Initial Calibration (ICAL)	-	-	-
Initial Calibration Verification (ICV)	-	-	-
Continuing Calibration Verification (CCV)	-	-	-
Laboratory Blanks	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	N/A	-	-
Field Blanks	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	N/A	-	N/A
Surrogate Spikes	√	N/A	√
Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)	√	√	√
Laboratory Duplicate (DUP)	N/A	N/A	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	V	√	√
Serial Dilution	N/A	-	N/A
Internal Standards	-	-	N/A
Field Duplicate	$\sqrt{}$	√	√
Project Quantitation Limits (QLs) ¹	√	√	√
Multiple Results for One Sample	V	√	√
Compound Quantitation/ Sample Result Verification	-	-	-
Overall Data Usability Assessment	$\sqrt{}$	√	√

 $\sqrt{\ }=$ Reviewed for Stage 2A review N/A = Not applicable to method or not performed during this sampling event -= Not applicable for Stage 2A review 1 PQLs verified for all methods.

Table III. Stage 2A Validation Percentages

Parameter	Stage 2A Results	Total Results	Stage 2A (%)
Metals	535	535	100
Hexavalent Chromium	400	400	100
Chloride, Nitrate-N, Nitrite-N, and Sulfate	507	507	100
Nitrate/Nitrite-N and Total Inorganic Nitrogen - Calculation	4	4	100
Chlorate	704	704	100
Perchlorate	719	719	100
Ammonia-N	2	2	100
Total Recoverable Phenolics	4	4	100
Conductivity	4	4	100
TDS	719	719	100
TOC	4	4	100
TOX	4	4	100

Table IV. Reason Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
ba	blank contamination above PQL
bb	blank contamination below PQL
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
С	qualified due to calibration problems
ср	qualified due to insufficient ingrowth (radiochemical only)
dc	dual column confirmation RPD exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
1	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
nd	qualified due to non-detected target analyte
o	other
orr	other result reported
p	qualified as a false positive due to contamination during shipping
pН	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <pql< th=""></pql<>
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
X	qualified due to low % solids
Z	qualified due to ICS results

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance	Criteria
5501666071	I-C-20210707	07/07/21	E218.6	550-166607-1	Chromium VI	3400	F1	0.20	10	ug/l	J+ n	ı	MS/MSD %R	114	90-110	%
5501666071	I-D-20210707	07/07/21	E218.6	550-166607-7	Chromium VI	5700		0.20	40	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666071	I-E-20210707	07/07/21	E218.6	550-166607-5	Chromium VI	6900		0.20	40	ug/l	J+ n	ı	MS/MSD %R	114	90-110	%
5501666071	I-F-20210707	07/07/21	E218.6	550-166607-2	Chromium VI	14000		0.20	100	ug/l	J+ n	ı	MS/MSD %R	114	90-110	%
5501666071	I-M-20210707	07/07/21	E218.6	550-166607-6	Chromium VI	6500		0.20	40	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666071	I-N-20210707	07/07/21	E218.6	550-166607-4	Chromium VI	8200		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666071	I-X-20210707	07/07/21	E218.6	550-166607-3	Chromium VI	11000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-G-20210707	07/07/21	E218.6	550-166608-2	Chromium VI	18000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-H-20210707	07/07/21	E218.6	550-166608-5	Chromium VI	15000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-O-20210707	07/07/21	E300	550-166608-8	Nitrate as N	36	Е	0.014	0.014	mg/l	DNR o	rr				
5501666081	I-O-20210707	07/07/21	E300	550-166608-8	Nitrate as N	35	Н	0.014	0.70	mg/l	J- h		Holding Times	156	48	hours
5501666081	I-O-20210707	07/07/21	E218.6	550-166608-8	Chromium VI	11000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-P-20210707	07/07/21	E218.6	550-166608-6	Chromium VI	14000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-Q-20210707	07/07/21	E218.6	550-166608-1	Chromium VI	17000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-T-20210707	07/07/21	E218.6	550-166608-3	Chromium VI	18000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-U-20210707	07/07/21	E218.6	550-166608-4	Chromium VI	18000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-W-20210707	07/07/21	E218.6	550-166608-7	Chromium VI	12000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501666081	I-W-20210707-FD	07/07/21	E218.6	550-166608-9	Chromium VI	12000		0.20	100	ug/l	J+ n	1	MS/MSD %R	114	90-110	%
5501669911	E1-1-20210713	07/13/21	E300.1	550-166991-1	Chlorate	19000	F1	4.9	490	ug/l	J+ n	1	MS/MSD %R	138, 156	75-125	%
5501669911	E1-2-20210713	07/13/21	E300.1	550-166991-2	Chlorate	150000		4.9	4900	ug/l	J+ n	1	MS/MSD %R	138, 156	75-125	%
5501669911	E1-3-20210713	07/13/21	E300.1	550-166991-3	Chlorate	220000		4.9	4900	ug/l	J+ n	1	MS/MSD %R	138, 156	75-125	%
5501669911	E1-3-20210713-EB	07/13/21	E300	550-166991-10	Nitrate as N	0.020	J	0.014	0.014	mg/l	J s	р	< PQL			
5501669911	E2-1-20210713	07/13/21	E300.1	550-166991-4	Chlorate	11000	F1	4.9	240	ug/l	J+ n	1	MS/MSD %R	138,-	75-125	%
5501669911	E2-2-20210713	07/13/21	E300	550-166991-5	Nitrate as N	20	Н	0.014	0.070	mg/l	J h		Holding Times	53	48	hours
5501669911	E2-2-20210713	07/13/21	E300	550-166991-5	Nitrate as N	22	Е	0.014	0.014	mg/l	DNR o	rr	-			
5501669911	E2-2-20210713	07/13/21	E300.1	550-166991-5	Chlorate	10000		4.9	240	ug/l	J+ n	1	MS/MSD %R	138,-	75-125	%
5501669911	E2-3-20210713	07/13/21	E300.1	550-166991-6	Chlorate	23000		4.9	490	ug/l	J+ n	1	MS/MSD %R	138, 156	75-125	%
5501669911	E2-4-20210713	07/13/21	E300.1	550-166991-7	Chlorate	29000		4.9	490	ug/l	J+ n	1	MS/MSD %R	138, 156	75-125	%
5501670611	ART-8A-20210714	07/14/21	E300	550-167061-6	Nitrate as N	11		0.014	0.070	mg/l	J fe	d	FD RPD	38	30	%
5501670611	ART-8A-20210714-FD	07/14/21	E300	550-167061-9	Nitrate as N	7.5		0.014	0.014	mg/l	J fe	d	FD RPD	38	30	%
5501670621	PC-117-20210714	07/14/21	E200.7	550-167062-4	Chromium (total)	0.0025	J	0.00085	0.00085	mg/l	J s	p	< PQL			
5501670621	PC-119-20210714	07/14/21	E300	550-167062-6	Nitrate as N	0.078		0.014	0.014	mg/l	J fe	d	FD RPD	50	30	%
5501670621	PC-119-20210714-FD	07/14/21	E300	550-167062-10	Nitrate as N	0.13		0.014	0.014	mg/l	J fe	d	FD RPD	50	30	%
5501670621	PC-120-20210714-EB	07/14/21	E300	550-167062-11	Nitrate as N	0.046	J	0.014	0.014	mg/l	J s	p	< PQL			
5501670621	PC-133-20210714	07/14/21	E300.1	550-167062-9	Chlorate	28	J	4.9	9.8	ug/l	J s	p	< PQL			
5501685831	LVW6.6-2-3.0-20210806	08/06/21	E314.0	550-168583-5	Perchlorate	0.63	J	0.31	0.31	ug/l	J s	p	< PQL			
5501685831	LVW7.2-1.0-20210806	08/06/21	E314.0	550-168583-2	Perchlorate	0.47	J	0.31	0.31	ug/l	J s	p	< PQL			
5501685831	LVW8.85-0.5-20210805	08/05/21	E314.0	550-168583-1	Perchlorate	0.49	J	0.31	0.31	ug/l	J s	p	< PQL			1
5501686691	I-G-20210809	08/09/21	E300.1	550-168669-2	Chlorate	2800000		4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-H-20210809	08/09/21	E300.1	550-168669-5	Chlorate	2700000		4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-O-20210809	08/09/21	E300.1	550-168669-8	Chlorate	1900000		4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-P-20210809	08/09/21	E300.1	550-168669-6	Chlorate	2300000		4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-Q-20210809	08/09/21	E300.1	550-168669-1	Chlorate	3900000	F1F2	4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-T-20210809	08/09/21	E300.1	550-168669-3	Chlorate	3400000		4.9	49000	ug/l	J n	ı,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance	Criteria
5501686691	I-U-20210809	08/09/21	E300.1	550-168669-4	Chlorate	3100000		4.9	49000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501686691	I-W-20210809	08/09/21	E300.1	550-168669-7	Chlorate	2000000	cn	4.9	150000	ug/l	J	m,ld	MS/MSD %R, RPD	212, 69; 27	75-125; 25	%
5501688511	E1-2-20210811	08/11/21	E300.1	550-168851-2	Chlorate	140000	cn	4.9	24000	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E1-3-20210811	08/11/21	E300.1	550-168851-3	Chlorate	140000	cn	4.9	24000	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-1-20210811	08/11/21	E300.1	550-168851-4	Chlorate	10000		4.9	240	ug/l	J	m,fd	MS/MSD %R, FD RPD	36,-; 40	75-125; 30	%
5501688511	E2-1-20210811-FD	08/11/21	E300.1	550-168851-9	Chlorate	15000	F1	4.9	240	ug/l	J	m,fd	MS/MSD %R, FD RPD	36,-; 40	75-125; 30	%
5501688511	E2-2-20210811	08/11/21	E300.1	550-168851-5	Chlorate	11000		4.9	240	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-2-20210811-EB	08/11/21	E314.0	550-168851-10	Perchlorate	0.97	J	0.31	0.31	ug/l	J	sp	< PQL			
5501688511	E2-3-20210811	08/11/21	E300.1	550-168851-6	Chlorate	28000		4.9	490	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-4-20210811	08/11/21	E300.1	550-168851-7	Chlorate	26000		4.9	490	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688511	E2-5-20210811	08/11/21	E300.1	550-168851-8	Chlorate	48000		4.9	2400	ug/l	J-	m	MS/MSD %R	36,-	75-125	%
5501688521	I-I-20210811	08/11/21	E218.6	550-168852-6	Chromium VI	5000	F1	0.20	100	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501688521	I-V-20210811	08/11/21	E218.6	550-168852-7	Chromium VI	16000		0.20	100	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501689551	PC-116R-20210812	08/12/21	E200.7	550-168955-3	Chromium (total)	0.0023	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689551	PC-117-20210812	08/12/21	E200.7	550-168955-4	Chromium (total)	0.0035	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689551	PC-118-20210812	08/12/21	E200.7	550-168955-5	Chromium (total)	0.0033	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689581	ART-1A-20210812-EB	08/12/21	E200.7	550-168958-10	Chromium (total)	0.0011	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501689581	ART-8A-20210812	08/12/21	E300.1	550-168958-6	Chlorate	69000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	ART-9-20210812	08/12/21	E300.1	550-168958-7	Chlorate	300000	F1	4.9	4900	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	PC-150-20210812	08/12/21	E218.6	550-168958-8	Chromium VI	40	F1	0.20	0.20	ug/l	J+	m	MS/MSD %R	-,112	90-110	%
5501689581	PC-150-20210812	08/12/21	E300.1	550-168958-8	Chlorate	91000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501689581	PC-150-20210812-FD	08/12/21	E300.1	550-168958-9	Chlorate	110000		4.9	2400	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501690621	I-AB-20210816	08/16/21	E300.1	550-169062-1	Chlorate	15000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	129,-	75-125	%
5501690621	I-AB-20210816	08/16/21	E218.6	550-169062-1	Chromium VI	1.1	F1	0.20	0.20	ug/l	J+	m	MS/MSD %R	111,-	90-110	%
5501692531	M-6A-20210818	08/18/21	E420.4	550-169253-1	Phenolics, Recoverable (total)	0.0068	J	0.0068	0.0068	mg/l	J	sp	< PQL			
5501692531	M-7B-20210818	08/18/21	E200.7	550-169253-2	Manganese	0.0098	JB	0.00019	0.00019	mg/l	J	sp,bl,bb	Blank Contamination, < PQL		0.00043	mg/l
5501693521	M-10-20210819	08/19/21	E200.7	550-169352-3	Selenium	0.0090	J	0.0025	0.0025	mg/l	J	sp	< PQL			
5501693521	M-10-20210819	08/19/21	E200.7	550-169352-3	Arsenic	0.011	J	0.0039	0.0039	mg/l	J	sp	< PQL			
5501693521	M-11-20210819-EB4	08/19/21	E200.7	550-169352-7	Chromium (total)	0.0015	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501693521	M-12A-20210819-FB4	08/19/21	E200.7	550-169352-2	Chromium (total)	0.00087	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501702821	I-D-20210908	09/08/21	E300	550-170282-7	Nitrate as N	46	Hen	0.014	0.14	mg/l	DNR	orr				
5501702821	I-M-20210908	09/08/21	E300	550-170282-6	Nitrate as N	47	Hen	0.014	0.14	mg/l	DNR	orr				
5501702831	I-AA-20210908	09/08/21	E218.6	550-170283-1	Chromium VI	56		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AA-20210908-FD	09/08/21	E300.1	550-170283-9	Chlorate	19000		4.9	240	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-AA-20210908-FD	09/08/21	E218.6	550-170283-9	Chromium VI	56		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AB-20210908	09/08/21	E218.6	550-170283-2	Chromium VI	15		0.20	0.20	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AB-20210908	09/08/21	E300.1	550-170283-2	Chlorate	15000	F1	4.9	240	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-AB-20210908	09/08/21	E300	550-170283-2	Nitrate as N	22	Hen	0.014	0.070	mg/l	DNR	orr				
5501702831	I-AR-20210908	09/08/21	E218.6	550-170283-8	Chromium VI	760		0.20	4.0	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-AR-20210908	09/08/21	E300.1	550-170283-8	Chlorate	210000		4.9	9800	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-B-20210908	09/08/21	E300.1	550-170283-3	Chlorate	58000		4.9	4900	ug/l	J+	m	MS/MSD %R	-,127	75-125	%
5501702831	I-B-20210908	09/08/21	E218.6	550-170283-3	Chromium VI	210		0.20	2.0	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-L-20210908	09/08/21		550-170283-6	Chromium VI	1100		0.20	10	ug/l	J	m	MS/MSD %R	87,113	90-110	%
5501702831	I-L-20210908	09/08/21	E300.1	550-170283-6	Chlorate	270000		4.9	24000	ug/l	J+	m	MS/MSD %R	-,127	75-125	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte II	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Reason Oualifiers Code	Data Quality Indicator	Qualification Finding	Acceptance	Criteria
5501702831	I-R-20210908	09/08/21	E300.1	550-170283-4	Chlorate	230000		4.9	4900	ug/l	J+ m	MS/MSD %R	-,127	75-125	%
5501702831	I-R-20210908	09/08/21	E218.6	550-170283-4	Chromium VI	830	F1	0.20	10	ug/l	J m	MS/MSD %R	87,113	90-110	%
5501702831	I-S-20210908	09/08/21	E218.6	550-170283-7	Chromium VI	1500		0.20	10	ug/l	J m	MS/MSD %R	87,113	90-110	%
5501702831	I-S-20210908	09/08/21	E300.1	550-170283-7	Chlorate	350000		4.9	24000	ug/l	J+ m	MS/MSD %R	-,127	75-125	%
5501702831	I-Y-20210908	09/08/21	E300.1	550-170283-5	Chlorate	290000		4.9	24000	ug/l	J+ m	MS/MSD %R	-,127	75-125	%
5501702831	I-Y-20210908	09/08/21	E218.6	550-170283-5	Chromium VI	1100		0.20	10	ug/l	J m	MS/MSD %R	87,113	90-110	%
5501703881	I-G-20210909	09/09/21	E300	550-170388-2	Nitrate as N	74		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-H-20210909	09/09/21	E300	550-170388-5	Nitrate as N	86		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-H-20210909	09/09/21	E300.1	550-170388-5	Chlorate	2700000		4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501703881	I-O-20210909	09/09/21	E300.1	550-170388-8	Chlorate	1800000		4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501703881	I-O-20210909	09/09/21	E300	550-170388-8	Nitrate as N	44		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-P-20210909	09/09/21	E300	550-170388-6	Nitrate as N	67		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-P-20210909	09/09/21	E300.1	550-170388-6	Chlorate	2400000		4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501703881	I-Q-20210909	09/09/21	E300	550-170388-1	Nitrate as N	82	F1	0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-T-20210909	09/09/21	E300	550-170388-3	Nitrate as N	94		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-T-20210909	09/09/21	E300.1	550-170388-3	Chlorate	3200000	F1	4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501703881	I-U-20210909	09/09/21	E300.1	550-170388-4	Chlorate	3100000		4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501703881	I-U-20210909	09/09/21	E300	550-170388-4	Nitrate as N	100		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-W-20210909	09/09/21	E300	550-170388-7	Nitrate as N	53		0.014	0.14	mg/l	J- m	MS/MSD %R	59,74	80-120	%
5501703881	I-W-20210909	09/09/21	E300.1	550-170388-7	Chlorate	2000000		4.9	49000	ug/l	J+ m	MS/MSD %R	139,126	75-125	%
5501705351	E1-1-20210913	09/13/21	E300.1	550-170535-1	Chlorate	26000		4.9	490	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E1-2-20210913	09/13/21	E300.1	550-170535-2	Chlorate	160000		4.9	4900	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E1-3-20210913	09/13/21	E300.1	550-170535-3	Chlorate	180000		4.9	4900	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-1-20210913	09/13/21	E300.1	550-170535-4	Chlorate	13000	F1	4.9	240	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-2-20210913	09/13/21	E300.1	550-170535-5	Chlorate	11000		4.9	240	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-3-20210913	09/13/21	E300.1	550-170535-6	Chlorate	20000		4.9	490	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-3-20210913-FD	09/13/21	E300.1	550-170535-9	Chlorate	20000		4.9	490	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-4-20210913	09/13/21	E300.1	550-170535-7	Chlorate	18000		4.9	490	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E2-5-20210913	09/13/21	E300.1	550-170535-8	Chlorate	47000		4.9	980	ug/l	J+ m	MS/MSD %R	132,127	75-125	%
5501705351	E1-3-20210913	09/13/21	E300	550-170535-3	Nitrate as N	83	Hen	0.014	0.14	mg/l	J- h	Holding Times	848	48	hours
5501707291	ART-2/2A-20210915	09/15/21	E300	550-170729-2	Nitrate as N	1.6		0.014	0.014	mg/l	J fd	FD RPD	48	30	%
5501707291	ART-2/2A-20210915-FD	09/15/21	E300	550-170729-9	Nitrate as N	2.6		0.014	0.014	mg/l	J fd	FD RPD	48	30	%
5501707301	PC-116R-20210915	09/15/21	E200.7	550-170730-3	Chromium (total)	0.0027	J	0.00085	0.00085	mg/l	J sp	< PQL			
5501707301	PC-117-20210915	09/15/21	E200.7	550-170730-4	Chromium (total)	0.0035	J	0.00085	0.00085	mg/l	J sp	< PQL			
5501707301	PC-121-20210915	09/15/21	E314.0	550-170730-8	Perchlorate	0.95	J	0.31	0.31	ug/l	J sp	< PQL			
5501718781	E1-3-20211006	10/06/21	E300	550-171878-3	Nitrate as N	69	Hen	0.014	0.28	mg/l	DNR orr				
5501718781	E1-3-20211006	10/06/21	E300	550-171878-3	Nitrate as N	71	Hen	0.014	0.28	mg/l	DNR orr				
5501718781	E2-5-20211006	10/06/21	E300	550-171878-8	Nitrate as N	120	Hen	0.014	0.28	mg/l	DNR orr				
5501718781	E2-5-20211006-FD	10/06/21	E300	550-171878-9	Nitrate as N	120	Hen	0.014	0.28	mg/l	DNR orr				
5501722551	LVW8.85-1.0-20211012	10/12/21	E314.0	550-172255-1	Perchlorate	0.87	J	0.31	0.31	ug/l	J sp	< PQL			
5501723531	I-AD-20211013-EB	10/13/21	E200.7	550-172353-9	Chromium (total)	0.0052	J	0.00085	0.00085	mg/l	J sp	< PQL			
5501724601	PC-117-20211014	10/14/21	E200.7	550-172460-4	Chromium (total)	0.0020	J	0.00085	0.00085	mg/l	J sp	< PQL			1
5501734301	PC-97-20211101	11/01/21	E300.1	550-173430-5	Chlorate	10	J	4.9	4.9	ug/l	J sp	< PQL			
5501735301	ARP-2A-20211102	11/02/21	E200.7	550-173530-27	Chromium (total)	0.0029	J	0.00085		mg/l	J sp	< PQL			1

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte II	Analyte	Lab Results	Lab Qualifiers So	QL	PQL	Units	Validator Reason Oualifiers Code	Data Quality Indicator	Qualification Finding	Acceptance	Criteria
5501735301	ARP-3A-20211102	11/02/21	E200.7	550-173530-20	Chromium (total)	0.0059		085 0.	.00085	mg/l	J sp	< PQL			
5501735301	MW-K5-20211102	11/02/21	E200.7	550-173530-15	Chromium (total)	0.0032	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501735301	PC-101R-20211102	11/02/21	E200.7	550-173530-29	Chromium (total)	0.0065	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501735301	PC-122-20211102-EB6	11/02/21	E314.0	550-173530-28	Perchlorate	0.95	J 0.31	0.	.31	ug/l	J sp	< PQL			
5501736181	M-67-20211103-FB7	11/03/21	E300.1	550-173618-23	Chlorate	19	J 4.9	4.	.9	ug/l	J sp	< PQL			
5501736181	PC-129-20211103-FB8	11/03/21	E314.0	550-173618-28	Perchlorate	0.40	J 0.31	0.	.31	ug/l	J sp	< PQL			
5501736181	PC-131-20211103	11/03/21	E300.1	550-173618-29	Chlorate	31	J 4.9	9.	.8	ug/l	J sp	< PQL			
5501736181	PC-132-20211103	11/03/21	E300	550-173618-12	Nitrate as N	0.044	J 0.01	4 0.	.014	mg/l	J sp	< PQL			
5501736181	PC-134D-20211103	11/03/21	E314.0	550-173618-32	Perchlorate	0.42	J 0.31	0.	.31	ug/l	J sp	< PQL			
5501736181	PC-152-20211103	11/03/21	E200.7	550-173618-9	Chromium (total)	0.0037	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501736311	E1-3-20211103-EB	11/03/21	E314.0	550-173631-10	Perchlorate	0.40	J 0.31	0.	.31	ug/l	J sp	< PQL			
5501737731	M-10-20211104	11/04/21	E350.1	550-173773-1	Ammonia (as N)	0.047	J 0.03	9 0.	.039	mg/l	J sp	< PQL			
5501737731	M-10-20211104	11/04/21	E200.7	550-173773-1	Selenium	0.0048	J 0.00	25 0.	.0025	mg/l	J sp	< PQL			
5501737731	M-10-20211104	11/04/21	E200.7	550-173773-1	Arsenic	0.011	J 0.00	39 0.	.0039	mg/l	J sp	< PQL			
5501737731	M-10-20211104	11/04/21	E300	550-173773-1	Nitrate as N	0.014	J 0.01	4 0.	.014	mg/l	J sp	< PQL			
5501737731	M-161D-20211104	11/04/21	E300.1	550-173773-23	Chlorate	16	J 4.9	4.	.9	ug/l	J sp	< PQL			
5501737731	M-80-20211104-EB4	11/04/21	E300.1	550-173773-9	Chlorate	19	J 4.9	4.	.9	ug/l	J sp	< PQL			
5501737731	PC-156A-20211104	11/04/21	E200.7	550-173773-16	Chromium (total)	0.0019	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501737731	PC-156B-20211104	11/04/21	E300.1	550-173773-17	Chlorate	20	J 4.9	9.	.8	ug/l	J sp	< PQL			
5501737731	PC-156B-20211104	11/04/21	E200.7	550-173773-17	Chromium (total)	0.0095	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501737731	PC-60-20211104	11/04/21	E300.1	550-173773-28	Chlorate	31	J 4.9	9.	.8	ug/l	J sp	< PQL			
5501737751	I-C-20211104-EB	11/04/21	E200.7	550-173775-8	Chromium (total)	0.0018	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501737761	I-R-20211104	11/04/21	E314.0	550-173776-4	Perchlorate	640000	Hen 0.31	63	300	ug/l	J- h	Holding Times	34	28	days
5501737761	I-R-20211104	11/04/21	E314.0	550-173776-4	Perchlorate	630000	Hen 0.31	6.	300	ug/l	DNR orr				
5501738581	PC-103-20211105	11/05/21	E300.1	550-173858-3	Chlorate	13	J 4.9	4.	.9	ug/l	J sp	< PQL			
5501738581	PC-56-20211105	11/05/21	E200.7	550-173858-4	Chromium (total)	0.0013	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501738581	PC-98R-20211105	11/05/21	E200.7	550-173858-2	Chromium (total)	0.0024	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			1
5501741101	I-O-20211110	11/10/21	E314.0	550-174110-8	Perchlorate	700000	cn 0.31	. 10	6000	ug/l	DNR orr				1
5501741101	I-Q-20211110	11/10/21	E314.0	550-174110-1	Perchlorate	590000	cn 0.31	6.	300	ug/l	DNR orr				
5501741101	I-T-20211110	11/10/21	E314.0	550-174110-3	Perchlorate	770000	cn 0.31	. 10	6000	ug/l	DNR orr				
5501741101	I-U-20211110	11/10/21	E314.0	550-174110-4	Perchlorate	750000	cn 0.31	. 10	6000	ug/l	DNR orr				
5501741101	I-W-20211110	11/10/21	E314.0	550-174110-7	Perchlorate	530000	cn 0.31	. 10	6000	ug/l	DNR orr				
5501743061	PC-117-20211115	11/15/21	E200.7	550-174306-4	Chromium (total)	0.0018	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501743061	PC-119-20211115-EB	11/15/21	E300	550-174306-11	Nitrate as N	0.047	J 0.01	4 0.	.014	mg/l	J sp	< PQL			
5501743091	ART-2/2A-20211115	11/15/21	E200.7	550-174309-2	Chromium (total)	0.0021	J 0.00	085 0.	.00085	mg/l	J sp	< PQL			
5501743091	ART-8-20211115	11/15/21	E218.6	550-174309-6	Chromium VI	69	0.50	2.	.5	ug/l	J fd	FD RPD	36	30	%
5501743091	ART-8A-20211115-FD	11/15/21	E218.6	550-174309-9	Chromium VI	48	0.50	2.	.5	ug/l	J fd	FD RPD	36	30	%
5501743091	ART-9-20211115-EB	11/15/21	E300	550-174309-10	Nitrate as N	0.047	J 0.01	4 0.	.014	mg/l	J sp	< PQL			
5501743971	LVW0.55-0.9-20211115	11/15/21	SM2540C	550-174397-33	Dissolved Solids (total)	1100	H 20	20	0	mg/l	J- h	Holding Times	8	7	days
5501743971	LVW0.55-0.9-20211115-FD	11/15/21	SM2540C	550-174397-34	Dissolved Solids (total)	1200	H 20	20	0	mg/l	J- h	Holding Times	8	7	days
5501743971	LVW0.55-20211115-FB	11/15/21	SM2540C	550-174397-35	Dissolved Solids (total)		UH 20	20	0	mg/l	UJ h,nd	Holding Times	8	7	days
5501743971	LVW3.5-6-1.7-20211115	11/15/21	SM2540C	550-174397-32	Dissolved Solids (total)	1200	H 20	20	0	mg/l	J- h	Holding Times	8	7	days
5501754501	LVW6.6-3-2.5-20211207	12/07/21	E300.1	550-175450-6	Chlorate	78	J 4.9	24	4	ug/l	J sp	< PQL			
5501754501	LVW7.2-1.0-20211207	12/07/21	E300.1	550-175450-2	Chlorate	88	J 4.9	24	4	ug/l	J sp	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Results	Lab Qualifiers	SQL	PQL	Units	Validator Qualifiers	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance (Criteria
5501754501	LVW7.2-1.0-20211207-FD	12/07/21	E300.1	550-175450-3	Chlorate	87	J	4.9	24	ug/l	J	sp	< PQL			
5501754501	LVW8.85-0.6-20211207	12/07/21	E300.1	550-175450-1	Chlorate	69	J	4.9	24	ug/l	J	sp	< PQL			
5501754551	I-AB-20211208	12/08/21	E200.7	550-175455-2	Chromium (total)	0.0082	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501758971	PC-117 - 20211215	12/15/21	E200.7	550-175897-4	Chromium (total)	0.0033	J	0.00085	0.00085	mg/l	J	sp	< PQL			
5501759891	E2-1-20211216-FD	12/16/21	SM2540C	550-175989-9	Dissolved Solids (total)	2700	cn	20	40	mg/l	DNR	orr				
5501759891	E2-1-20211216-FD	12/16/21	SM2540C	550-175989-9	Dissolved Solids (total)	2700	Н	20	40	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-2-20211216	12/16/21	SM2540C	550-175989-5	Dissolved Solids (total)	3100	Н	20	40	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-2-20211216	12/16/21	SM2540C	550-175989-5	Dissolved Solids (total)	2700	cn	20	40	mg/l	DNR	orr				
5501759891	E2-3-20211216	12/16/21	SM2540C	550-175989-6	Dissolved Solids (total)	3800	Н	20	100	mg/l	J-	h,sp	Holding Times, < PQL	13	7	days
5501759891	E2-3-20211216	12/16/21	SM2540C	550-175989-6	Dissolved Solids (total)	4400	cn	20	100	mg/l	DNR	orr				
5501682671	I-E-20210803	8/3/2021	E300	550-168267-5	Nitrate as N	29	Е	0.014	0.014	mg/l	J	e	Exceeded calibration range			

ATTACHMENT A

Metals Data Validation Report

Arsenic, Boron, Chromium, Iron, Manganese, Selenium, and Sodium by Environmental Protection Agency (EPA) Method 200.7

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
550-169253-1	PB (prep blank)	Manganese	0.00043 mg/L	All samples in SDG 550-169253-1
550-169253-1	PB (prep blank)	Sodium	0.0471 mg/L	All samples in SDG 550-169253-1
550-169253-1	PB (prep blank)	Sodium Boron	1.49 mg/L 0.427 mg/L	No associated samples in this SDG
550-169352-1	PB (prep blank)	Iron	0.0229 mg/L	M-10-20210819
550-170282-1	PB (prep blank)	Chromium	0.00279 mg/L	All samples in SDG 550-170282-1
550-170283-1	PB (prep blank)	Chromium	0.00279 mg/L	All samples in SDG 550-170283-1
550-173773-1	PB (prep blank)	Manganese	0.00166 mg/L	M-10-20211104
550-174110-1	PB (prep blank)	Chromium	0.00184 mg/L	All samples in SDG 550-174110-1

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
550-169253-1	M-7B-20210818	Manganese	0.0098 mg/L	0.0098J mg/L

III. Field Blanks

Samples I-X-2021 07 07-EB (from SDG 550-166607-1), E1-3 - 2021 07 13-EB (from SDG 550-166991-1), ART-9 - 2021 07 14-EB (from SDG 550-167061-1), PC-120 - 2021 07 14-EB (from SDG 550-167062-1), I-Z - 2021 08 11-EB (from SDG 550-168852-1), PC-133 - 2021 08 12-EB (from SDG 550-168955-1), ART-1A - 2021 08 12-EB (from SDG 550-168958-1), M-11-20210819-EB4 (from SDG 550-169352-1), I-AB-2021 09 08-EB (from SDG 550-170283-1), E2-4-2021 09 13-EB (from SDG 550-170535-1), ART-3A-2021 09 15-EB (from SDG 550-170729-1), PC-115R-2021 09 15-EB (from SDG 550-170730-1), E1-1-2021 10 06-EB (from SDG 550-171878-1), I-AD-2021 10 13-EB (from SDG 550-172353-1), PC-117-2021 10 14-EB (from SDG 550-172460-1), ART-7B-2021 10 14-EB (from SDG 550-172463-1), PC-155B-20211101-EB5 (from SDG 550-173430-1), PC-122-20211102-EB6 (from SDG 550-173530-1), PC-126-20211103-EB7 (from SDG 550-173618-1), E1-3-20211103-EB (from SDG 550-173631-1), M-80-20211104-EB4 and PC-60-20211104-EB8 (both from SDG 550-173773-1), I-C-20211104-EB (from SDG 550-173775-1), M-70-20211105-EB9 (from SDG 550-173858-1), PC-119-20211115-EB (from SDG 550-174306-1), ART-9-20211115-EB (from SDG 550-174309-1), I-E-20211208-EB (from SDG 550-175456-1), ART-1A-20211215-EB (from SDG 550-175896-1), PC-121-20211215-EB (from SDG 550-175897-1), and E2-2-20211216-EB (from SDG 550-175989-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-168958-1	ART-1A - 2021 08 12-EB	08/12/21	Chromium	0.0011 mg/L	ART-1A - 2021 08 12
550-169352-1	M-11-20210819-EB4	08/19/21	Chromium	0.0015 mg/L	M-11-20210819
550-172353-1	I-AD-2021 10 13-EB	10/13/21	Chromium	0.0052 mg/L	I-AD-2021 10 13
550-173775-1	I-C-20211104-EB	11/04/21	Chromium	0.0018 ug/L	I-C-20211104

Samples M-12A-20210819-FB4 (from SDG 550-169352-1), ARP-7-20211102-FB6 and PC-91-20211102-FB5 (both from SDG 550-173530-1), M-67-20211103-FB7 and PC-129-20211103-FB8 (both from SDG 550-173618-1), M-95-20211104-FB4 (from SDG 550-173773-1), and M-57A-20211105-FB9 (from SDG 550-173858-1) were identified as a field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-169352-1	M-12A-20210819-FB4	08/19/21	Chromium	0.00087 mg/L	M-12A-20210819

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For M-10-20211104MS/MSD (from SDG 550-173773-1), no data were qualified for iron percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

V. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in these SDGs, and therefore duplicate analyses were not performed for these SDGs.

VI. Serial Dilution

Serial dilution was not performed for these SDGs.

VII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Field Duplicates

Samples I-W-2021 07 07 and I-W-2021 07 07-FD (both from SDG 550-166608-1), samples E1-2 - 2021 07 13 and E1-2 - 2021 07 13-FD (both from SDG 550-166991-1), samples ART-8A - 2021 07 14 and ART-8A - 2021 07 14-FD (both from SDG 550-167061-1), samples PC-119 - 2021 07 14 and PC-119 - 2021 07 14-FD (both from SDG 550-167062-1) samples I-Y - 2021 08 09 and I-Y - 2021 08 09-FD (both from SDG 550-168668-1), samples E2-1 - 2021 08 11 and E2-1 - 2021 08 11-FD (both from SDG 550-168851-1), samples PC-121 - 2021 08 12 and PC-121 - 2021 08 12-FD (both from SDG 550-168955-1), samples PC-150 - 2021 08 12 and PC-150 - 2021 08 12-FD (both from SDG 550-168958-1), samples M-95 - 20210817 and M-95 - 20210817-FD4 (both from SDG 550-169157-1), samples I-AA-2021 09 08 and I-AA-2021 09 08-FD (both from SDG 550-170283-1), samples E2-3-2021 09 13 and E2-3-2021 09 13-FD (both from SDG 550-170535-1), samples ART-2/2A-2021 09 15 and ART-2/2A-2021 09 15-FD (both from SDG 550-170729-1), samples PC-99R2/R3-2021 09 15 and PC-99R2/R3-2021 09 15-FD (both from SDG 550-170730-1), samples E2-5-2021 10 06 and E2-5-2021 10 06-FD (both from SDG 550-171878-1), samples I-AC-2021 10 13 and I-AC-2021 10 13-FD (both from SDG 550-172353-1), samples PC-116R-2021 10 14 and PC-116R-2021 10 14-FD (both from SDG 550-172460-1), samples ART-4-2021 10 14 and ART-4-2021 10 14-FD (both from SDG 550-172463-1), Samples M-11-20211102 and M-11-20211102-FD4 (both from SDG 550-173530-1), samples PC-130-20211103 and PC-130-20211103-FD6 (both from SDG 550-173618-1), samples ARP-1-20211103 and ARP-1-20211103-FD7 (both from SDG 550-173618-1), samples E1-2-20211103 and E1-2-20211103-FD (both from SDG 550-173631-1), samples M-83-20211104 and M-83-20211104-FD8 (both from SDG 550-173773-1), samples I-B-20211104 and I-B-

20211104-FD (both from SDG 550-173776-1), samples PC-58-20211105 and PC-58-20211105-FD5 (both from SDG 550-173858-1), samples PC-59-20211105 and PC-59-20211105-FD9 (both from SDG 550-173858-1), samples PC-118-20211115 and PC-118-20211115-FD (both from SDG 550-174306-1), samples ART-8-20211115 and ART-8A-20211115-FD (both from SDG 550-174309-1), samples I-D-20211208 and I-D-20211208-FD (both from SDG 550-175456-1), samples PC-150-20211215 and PC-150-20211215-FD (both from SDG 550-175896-1), samples PC-120-20211215 and PC-120-20211215-FD (both from SDG 550-175897-1), samples E2-1-20211216 and E2-1-20211216-FD (both from SDG 550-175989-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

	'	Concentra	ation (mg/L)	ı	I	
SDG	Analyte	I-W-2021 07 07	I-W-2021 07 07-FD	RPD (Limits)	Flag	A or P
550-166608-1	Chromium	10	9.6	4 (≤30)	-	
		T		1 1		
		Concentra	ation (mg/L)		I	
SDG	Analyte	E1-2 - 2021 07 13	E1-2 - 2021 07 13-FD	RPD (Limits)	Flag	A or P
550-166991-1	Chromium	0.46	0.47	2 (≤30)	-	-
		Concentr	ration (mg/L)		I	
SDG	Analyte	ART-8A - 2021 07 14	ART-8A - 2021 07 14-FD	RPD (Limits)	Flag	A or F
550-167061-1	Chromium	0.065	0.067	3 (≤30)	-	
						
		Composite	ration (mg/L)		İ	
Ì	1	Concenti		1	1	ļ
SDG	Analyte	I-Y - 2021 08 09	I-Y - 2021 08 09-FD	RPD (Limits)	Flag	A or F
SDG 550-168668-1	Analyte Chromium			RPD (Limits) 8 (≤30)	Flag -	A or I
		I-Y - 2021 08 09	I-Y - 2021 08 09-FD 1.3		-	
		I-Y - 2021 08 09	I-Y - 2021 08 09-FD		-	
		I-Y - 2021 08 09	I-Y - 2021 08 09-FD 1.3		-	
550-168668-1	Chromium	1-Y - 2021 08 09 1.2	I-Y - 2021 08 09-FD 1.3 ration (mg/L)	8 (≤30)	-	-
550-168668-1 SDG	Chromium	I-Y - 2021 08 09 1.2 Concentr E2-1 - 2021 08 11	I-Y - 2021 08 09-FD 1.3 ration (mg/L) E2-1 - 2021 08 11-FD	8 (≤30) RPD (Limits)	- Flag	-
550-168668-1 SDG	Chromium	I-Y - 2021 08 09 1.2 Concentr E2-1 - 2021 08 11 0.042	I-Y - 2021 08 09-FD 1.3 ration (mg/L) E2-1 - 2021 08 11-FD	8 (≤30) RPD (Limits)	- Flag	-
550-168668-1 SDG	Chromium	I-Y - 2021 08 09 1.2 Concentr E2-1 - 2021 08 11 0.042	I-Y - 2021 08 09-FD 1.3 ration (mg/L) E2-1 - 2021 08 11-FD 0.038	8 (≤30) RPD (Limits)	- Flag	-

		Concer	tration (mg/L)			
SDG	Analyte	M-95 - 20210817	M-95 - 20210817-FD4	RPD (Limits)	Flag	A or P
550-169157-1	Chromium	0.28	0.30	7 (≤30)	-	-
		2	tertion (mall)			
SDG	Analyte	I-AA-2021 09 08	I-AA-2021 09 08-FD	RPD (Limits)	Flag	A or P
550-170283-1	Chromium	0.054	0.049	10 (≤30)	-	-
	<u> </u>	<u> </u>				<u> </u>
			tration (mg/L)	-		
SDG	Analyte	E2-3-2021 09 13	E2-3-2021 09 13-FD	RPD (Limits)	Flag	A or P
550-170535-1	Chromium	0.10	0.083	19 (≤30)	-	-
	1			1		
		Concer	tration (mg/L)			
SDG	Analyte	E2-5-2021 10 06	E2-5-2021 10 06-FD	RPD (Limits)	Flag	A or P
550-171878-1	Chromium	0.18	0.17	6 (≤30)	-	-
		Concen	itration (mg/L)			
SDG	Analyte	I-AC-2021 10 13	I-AC-2021 10 13-FD	RPD (Limits)	Flag	A or P
550-172353-1	Chromium	1.8	1.9	5 (≤30)	-	-
			ntration (mg/L)			
SDG	Analyte	ART-4-2021 10 14	ART-4-2021 10 14-FD	RPD (Limits)	Flag	A or P
550-172463-1	Chromium	0.11	0.11	0 (≤30)	-	-
	1	1		<u> </u>		<u> </u>
		Concer	ntration (mg/L)	4		
SDG	Analyte	M-11-20211102	M-11-20211102-FD4	RPD (Limits)	Flag	A or P
550-173530-1	Chromium	3.1	3.3	6 (≤30)	-	_

		Concer	ntration (mg/L)			
SDG	Analyte	PC-130-20211103	PC-130-20211103-FD6	RPD (Limits)	Flag	A or P
550-173618-1	Chromium	0.50	0.51	2 (≤30)	-	-
	<u> </u>					1
		Concen	tration (mg/L)			
SDG	Analyte	E1-2-20211103	E1-2-20211103-FD	RPD (Limits)	Flag	A or P
550-173631-1	Chromium	0.49	0.50	2 (≤30)	-	-
		2	tooking (madh)			
			tration (mg/L)	=		
SDG	Analyte	M-83-20211104	M-83-20211104-FD8	RPD (Limits)	Flag	A or P
550-173773-1	Chromium	0.21	0.20	5 (≤30)	-	-
		Concen	tration (mg/L)			
SDG	Analyte	I-B-20211104	I-B-20211104-FD	RPD (Limits)	Flag	A or P
550-173776-1	Chromium	0.22	0.22	0 (≤30)	-	-
	1			<u> </u>		1
		Concen	tration (mg/L)			
SDG	Analyte	PC-58-20211105	PC-58-20211105-FD5	RPD (Limits)	Flag	A or P
550-173858-1	Chromium	0.017	0.017	0 (≤30)	-	-
		Concon	tration (mg/L)			
SDG	Analyte	ART-8-20211115	ART-8A-20211115-FD	RPD (Limits)	Flag	A or P
550-174309-1	Chromium	0.088	0.094	7 (≤30)	-	-
SDG	Analyte	I-D-20211208	tration (mg/L)	RPD (Limits)	Flag	A or P
550-175456-1	Chromium	4.1	4.1	0 (≤30)	-	-

		Concer	tration (mg/L)			
SDG	Analyte	PC-150-20211215	PC-150-20211215-FD	RPD (Limits)	Flag	A or P
550-175896-1	Chromium	0.044	0.046	4 (≤30)	-	-

		Concen	tration (mg/L)			
SDG	Analyte	E2-1-20211216	E2-1-20211216-FD	RPD (Limits)	Flag	A or P
550-175989-1	Chromium	0.033	0.029	13 (≤30)	-	-

IX. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to laboratory blank contamination, one manganese result was qualified as estimated in one sample.

NERT GWM Performance Sampling, July-December 2021

Chromium - Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174471-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, July-December 2021

Chromium - Laboratory Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173858-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174471-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration	A or P	Code
550-169253-1	M-7B-20210818	Manganese	0.0098 mg/L	0.0098J mg/L	Α	bl

NERT GWM Performance Sampling, July--December 2021

Chromium - Field Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167219-1, 550-168267-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175989-1

No Sample Data Qualified in these SDGs

ATTACHMENT B

Wet Chemistry Data Validation Report

Ammonia as Nitrogen by Environmental Protection Agency (EPA) Method 350.1 Chlorate by EPA Method 300.1B

Chloride, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate (Anions) by EPA **Method 300.0**

Conductivity by Standard Method 2510B

Field pH

Hexavalent Chromium by EPA Method 218.6 Nitrate as Nitrogen by EPA Method 300.0 Nitrate/Nitrite as Nitrogen by Calculation

Perchlorate by EPA Method 314.0

Total Dissolved Solids by Standard Method 2540C

Total Inorganic Nitrogen by Calculation

Total Recoverable Phenolics by EPA Method 420.4

Total Organic Carbon by Standard Method 5310B

Toxic Organic Halides by EPA SW 846 Method 9020B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
550-166608-1	I-O-2021 07 07DL	Nitrate as N	156 hours	48 hours	J- (all detects)	А
550-166991-1	E2-2 – 2021 07 13DL	Nitrate as N	53 hours	48 hours	J- (all detects)	А
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	62 hours	48 hours	J- (all detects)	Р
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	61 hours	48 hours	J- (all detects)	Р
550-170535-1	E1-3-2021 09 13	Nitrate as N	848 hours	48 hours	J- (all detects)	Р
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2	Nitrate as N	899 hours	48 hours	J- (all detects)	А
550-171878-1	E2-5-2021 10 06RE	Nitrate as N	922 hours	48 hours	J- (all detects)	Α
550-171878-1	E2-5-2021 10 06-FDRE	Nitrate as N	923 hours	48 hours	J- (all detects)	А
550-173776-1	I-R-20211104 I-R-20211104RE	Perchlorate	34 days	28 days	J- (all detects)	Р

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
550-174397-1	LVW3.5-6-1.7-20211115 LVW0.55-0.9-20211115 LVW0.55-0.9-20211115-FD LVW0.55-20211115-FB	Total dissolved solids	8 days	7 days	J- (all detects) UJ (all non-detects)	Р
550-175989-1	E2-2-20211216RE E2-3-20211216RE E2-1-20211216-FDRE	Total dissolved solids	13 days	7 days	J- (all detects)	Р

II. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

III. Field Blanks

Samples I-X-2021 07 07-EB (from SDG 550-166607-1), E1-3 - 2021 07 13-EB (from SDG 550-166991-1), ART-9 - 2021 07 14-EB (from SDG 550-167061-1), PC-120 - 2021 07 14-EB (from SDG 550-167062-1), E2-2 - 2021 08 11-EB (from SDG 550-168851-1), I-Z - 2021 08 11-EB (from SDG 550-168852-1), PC-133 - 2021 08 12-EB (from SDG 550-168955-1), ART-1A - 2021 08 12-EB (from SDG 550-168958-1), M-11-20210819-EB4 (from SDG 550-169352-1), I-AB-2021 09 08-EB (from SDG 550-170283-1), E2-4-2021 09 13-EB (from SDG 550-170535-1), ART-3A-2021 09 15-EB (from SDG 550-170729-1), PC-115R-2021 09 15-EB (from SDG 550-170730-1), E1-1-2021 10 06-EB (from SDG 550-171878-1), I-AD-2021 10 13-EB (from SDG 550-172353-1), PC-117-2021 10 14-EB (from SDG 550-172460-1), ART-7B-2021 10 14-EB (from SDG 550-172463-1), PC-155B-20211101-EB5 (from SDG 550-173430-1), PC-122-20211102-EB6 (from SDG 550-173530-1), PC-126-20211103-EB7 (from SDG 550-173618-1), E1-3-20211103-EB (from SDG 550-173631-1), M-80-20211104-EB4 and PC-60-20211104-EB8 (both from SDG 550-173773-1), I-C-20211104-EB (from SDG 550-173775-1), M-70-20211105-EB9 (from SDG 550-173858-1), PC-119-20211115-EB (from SDG 550-174306-1), ART-9-20211115-EB (from SDG 550-174309-1), I-E-20211208-EB (from SDG 550-175456-1), sample ART-1A-20211215-EB (from SDG 550-175896-1), PC-121-20211215-EB (from SDG 550-175897-1), and E2-2-20211216-EB (from SDG 550-175989-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-166607-1	I-X-2021 07 07-EB	07/13/21	Total dissolved solids Perchlorate	94 mg/L 4.7 ug/L	I-X-2021 07 07
550-166991-1	E1-3 - 2021 07 13-EB	07/13/21	Nitrate as N Perchlorate	0.020 mg/L 1.0 ug/L	E1-3 - 2021 07 13

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-167062-1	PC-120 - 2021 07 14-EB	07/14/21	Nitrate as N	0.046 mg/L	PC-120 - 2021 07 14
550-168851-1	E2-2 - 2021 08 11-EB	08/11/21	Perchlorate	0.97 ug/L	E2-2 - 2021 08 11
550-173530-1	PC-122-20211102-EB6	11/03/21	Perchlorate	0.95 ug/L	PC-122-20211102
550-173631-1	E1-3-20211103-EB	11/03/21	Perchlorate	0.40 ug/L	E1-3-20211103
550-173773-1	M-80-20211104-EB4	11/04/21	Chlorate	19 ug/L	M-80-20211104
550-174306-1	PC-119-20211115-EB	11/15/21	Nitrate as N	0.047 mg/L	PC-119-20211115
550-174309-1	ART-9-20211115-EB	11/15/21	Nitrate as N	0.047 mg/L	ART-9-20211115

Samples LVW6.05-20210713-FB and LVW0.55-20210713-FB (both from SDG 550-167079-1), LVW6.05-20210806-FB, LVW0.55-20210805-FB (both from SDG 550-168583-1), M-12A-20210819-FB4 (from SDG 550-169352-1), LVW6.05-20210902-FB and LVW0.55-20210902-FB (both from SDG 550-170104-1), LVW6.05-20211011-FB and LVW0.55-20211011-FB (both from SDG 550-172255-1), ARP-7-20211102-FB6 and PC-91-20211102-FB5 (both from SDG 550-173530-1), M-67-20211103-FB7 and PC-129-20211103-FB8 (both from SDG 550-173618-1), M-95-20211104-FB4 (from SDG 550-173773-1), M-57A-20211105-FB9 (from SDG 550-173858-1), LVW6.05-20211116-FB and LVW0.55-20211115-FB (both from SDG 550-174397-1), and LVW6.05-20211207-FB and LVW0.55-20211208-FB (both from SDG 550-175450-1) were identified as field blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
550-173618-1	M-67-20211103-FB7	11/03/21	Chlorate	19 ug/L	M-67-20211103
550-173618-1	PC-129-20211103-FB8	11/03/21	Perchlorate	0.40 ug/L	PC-129-20211103

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks.

IV. Surrogates

Surrogates were added to all samples as required by Method 300.1B. All surrogate recoveries (%R) were within QC limits.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
550-166607-1	I-C-2021 07 07MS/MSD (I-C-2021 07 07 I-F-2021 07 07 I-X-2021 07 07 I-N-2021 07 07 I-E-2021 07 07 I-M-2021 07 07 I-D-2021 07 07)	Hexavalent chromium	114 (90-110)	-	J+ (all detects)	А
550-166608-1	I-C-2021 07 07MS/MSD (All samples in SDG 550-166608-1)	Hexavalent chromium	114 (90-110)	-	J+ (all detects)	А
550-166991-1	E1-1 - 2021 07 13MS/MSD (E1-1 - 2021 07 13 E1-2 - 2021 07 13 E1-3 - 2021 07 13 E2-3 - 2021 07 13 E2-4 - 2021 07 13)	Chlorate	138 (75-125)	156 (75-125)	J+ (all detects)	A
550-166991-1	E2-1 - 2021 07 13MS/MSD (E2-1 - 2021 07 13 E2-2 - 2021 07 13)	Chlorate	138 (75-125)	-	J+ (all detects)	А
550-168669-1	I-Q - 2021 08 09MS/MSD (All samples in SDG 550-168669-1)	Chlorate	212 (75-125)	69 (75-125)	J (all detects)	А
550-168851-1	E2-1 - 2021 08 11-FDMS/MSD (E1-2 - 2021 08 11 E1-3 - 2021 08 11 E2-1 - 2021 08 11 E2-2 - 2021 08 11 E2-3 - 2021 08 11 E2-4 - 2021 08 11 E2-5 - 2021 08 11 E2-1 - 2021 08 11	Chlorate	36 (75-125)	•	J- (all detects)	A
550-168852-1	I-I - 2021 08 11MS/MSD (I-I - 2021 08 11# I-V - 2021 08 11)#	Hexavalent chromium	111 (90-110)	-	J+ (all detects)	А
550-168958-1	PC-150 - 2021 08 12MS/MSD (PC-150 - 2021 08 12)	Hexavalent chromium	-	112 (90-110)	J+ (all detects)	А
550-168958-1	PC-150 - 2021 08 12MS/MSD (PC-150 - 2021 08 12-FD)	Hexavalent chromium	-	112 (90-110)	NA	-

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
550-168958-1	PC-150 - 2021 08 12MS/MSD (ART-8A - 2021 08 12# ART-9 - 2021 08 12# PC-150 - 2021 08 12# PC-150 - 2021 08 12-FD)#	Chlorate	129 (75-125)	-	J+ (all detects)	Α Α
550-169062-1	I-AB - 2021 08 16MS/MSD (All samples in SDG 550-169062-1)	Hexavalent chromium Chlorate	- -	111 (90-110) 129 (75-125)	J+ (all detects) J+ (all detects)	А
550-170283-1	I-R-2021 09 08MS/MSD (I-AA-2021 09 08 I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AR-2021 09 08	Hexavalent chromium	87 (90-110)	113 (90-110)	J (all detects)	A
550-170283-1	I-AB-2021 09 08MS/MSD (I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AR-2021 09 08	Chlorate	-	127 (75-125)	J+ (all detects)	A
550-170388-1	I-Q-2021 09 09MS/MSD (All samples in SDG 550-170388-1)	Nitrate as N	59 (80-120)	74 (80-120)	J- (all detects)	А
550-170388-1	I-T-2021 09 09MS/MSD (I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09)	Chlorate	139 (75-125)	126 (75-12)	J+ (all detects)	А
550-170535-1	E2-1-2021 09 13MS/MSD (E1-1-2021 09 13 E1-2-2021 09 13 E1-3-2021 09 13 E2-1-2021 09 13 E2-2-2021 09 13 E2-3-2021 09 13 E2-4-2021 09 13 E2-4-2021 09 13 E2-5-2021 09 13 E2-3-2021 09 13-FD)	Chlorate	132 (75-125)	127 (75-125)	J+ (all detects)	А

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
550-168669-1	I-Q - 2021 08 09MS/MSD (All samples in SDG 550-168669-1)	Chlorate	27 (≤25)	J (all detects)	Α

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Field Duplicates

Samples I-W-2021 07 07 and I-W-2021 07 07-FD (both from SDG 550-166608-1), samples E1-2 - 2021 07 13 and E1-2 - 2021 07 13-FD (both from SDG 550-166991-1), samples ART-8A - 2021 07 14 and ART-8A - 2021 07 14-FD (both from SDG 550-167061-1), samples PC-119 - 2021 07 14 and PC-119 - 2021 07 14-FD (both from SDG 550-167062-1), samples LVW0.55-0.9-20210713 and LVW0.55-0.9-20210713-FD (both from SDG 550-167079-1), samples LVW7.2-1.0-20210713 and LVW7.2-1.0-20210713-FD (both from SDG 550-167079-1), sample LVW6.05-0.7-20210713 (from SDG 550-167079-1), sample LVW6.05-0.7-20210713-FD (from SDG 550-167079-2), samples LVW7.2-1.0-20210806 and LVW7.2-1.0-20210806-FD (both from SDG 550-168583-1), samples LVW6.05-0.7-20210806 and LVW6.05-0.7-20210806-FD (both from SDG 550-168583-1), samples LVW0.55-0.9-20210805 and LVW0.55-0.9-20210805-FD (both from SDG 550-168583-1), samples I-Y - 2021 08 09 and I-Y - 2021 08 09-FD (both from SDG 550-168668-1), samples E2-1 - 2021 08 11 and E2-1 - 2021 08 11-FD (both from SDG 550-168851-1), samples PC-121 - 2021 08 12 and PC-121 - 2021 08 12-FD (both from SDG 550-168955-1), samples PC-150 - 2021 08 12 and PC-150 - 2021 08 12-FD (both from SDG 550-168958-1), samples M-95 - 20210817 and M-95 - 20210817-FD4 (both from SDG 550-169157-1), samples LVW7.2-1.1-20210902 and LVW7.2-1.1-20210902-FD (both from SDG 550-170104-1), samples LVW6.05-1.2-20210902 and LVW6.05-1.2-20210902-FD (both from SDG 550-170104-1), samples LVW0.55-1.2-20210902 and LVW0.55-1.2-20210902-FD (both from SDG 550-170104-1), samples I-AA-2021 09 08 and I-AA-2021 09 08-FD (both from SDG 550-170283-1), samples E2-3-2021 09 13 and E2-3-2021 09 13-FD (both from SDG 550-170535-1), samples ART-2/2A-2021 09 15 and ART-2/2A-2021 09 15-FD (both from SDG 550-170729-1), samples PC-99R2/R3-2021 09 15 and PC-99R2/R3-2021 09 15-FD (both from SDG 550-170730-1), samples E2-5-2021 10 06 and E2-5-2021 10 06-FD (both from SDG 550-171878-1), samples E2-5-2021 10 06RE and E2-5-2021 10 06-FDRE (both from SDG 550-171878-1), samples LVW7.2-0.9-20211012 and LVW7.2-0.9-20211012-FD

(both from SDG 550-172255-1), samples LVW6.05-0.9-20211011 and LVW6.05-0.9-20211011-FD (both from SDG 550-172255-1), samples LVW0.55-1.0-20211011 and LVW0.55-1.0-20211011-FD (both from SDG 550-172255-1), samples I-AC-2021 10 13 and I-AC-2021 10 13-FD (both from SDG 550-172353-1), samples PC-116R-2021 10 14 and PC-116R-2021 10 14-FD (both from SDG 550-172460-1), samples ART-4-2021 10 14 and ART-4-2021 10 14-FD (both from SDG 550-172463-1), samples M-11-20211102 and M-11-20211102-FD4 (both from SDG 550-173530-1), samples PC-130-20211103 and PC-130-20211103-FD6 (both from SDG 550-173618-1), samples ARP-1-20211103 and ARP-1-20211103-FD7 (both from SDG 550-173618-1), samples E1-2-20211103 and E1-2-20211103-FD (both from SDG 550-173631-1), samples M-83-20211104 and M-83-20211104-FD8 (both from SDG 550-173773-1), samples I-B-20211104 and I-B-20211104-FD (both from SDG 550-173776-1), samples PC-58-20211105 and PC-58-20211105-FD5 (both from SDG 550-173858-1), samples PC-59-20211105 and PC-59-20211105-FD9 (both from SDG 550-173858-1), samples PC-118-20211115 and PC-118-20211115-FD (both from SDG 550-174306-1), samples ART-8-20211115 and ART-8A-20211115-FD (both from SDG 550-174309-1), samples LVW7.2-1.0-20211116 and LVW7.2-1.0-20211116-FD (both from SDG 550-174397-1). samples LVW6.05-0.8-20211116 and LVW6.05-0.8-20211116-FD (both from SDG 550-174397-1), samples LVW0.55-0.9-20211115 and LVW0.55-0.9-20211115-FD (both from SDG 550-174397-1), samples LVW7.2-1.0-20211207 and LVW7.2-1.0-20211207-FD (both from SDG 550-175450-1), samples LVW6.05-1.0-20211207 and LVW6.05-1.0-20211207-FD (both from SDG 550-175450-1), samples LVW0.55-1.2-20211208 and LVW0.55-1.2-20211208-FD (both from SDG 550-175450-1), samples 20211208 and I-D-20211208-FD (both from SDG 550-175456-1), samples PC-150-20211215 and PC-150-20211215-FD (both from SDG 550-175896-1), samples PC-120-20211215 and PC-120-20211215-FD (both from SDG 550-175897-1), and samples E2-1-20211216 and E2-1-20211216-FD (both from SDG 550-175989-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

		Concen				
SDG	Analyte	I-W-2021 07 07	I-W-2021 07 07-FD	RPD (Limits)	Flag	A or P
550-166608-1	Hexavalent chromium	12000 ug/L	12000 ug/L	0 (≤30)	1	-
	Nitrate as N	52 mg/L	56 mg/L	7 (≤30)	-	-
	Chlorate	2100000 ug/L	2000000 ug/L	5 (≤30)	-	-
	Perchlorate	580000	610000 ug/L	5 (≤30)	-	-
	Total dissolved solids	7600 mg/L	7500 mg/L	1 (≤30)	-	-
	Field pH	7.68 SU	7.68 SU	0 (≤30)	-	-

		Concer				
SDG	Analyte	E1-2 - 2021 07 13	E1-2 - 2021 07 13-FD	RPD (Limits)	Flag	A or P
550-166991-1	Hexavalent chromium	470 ug/L	480 ug/L	2 (≤30)	-	-
	Nitrate as N	86 mg/L	82 mg/L	5 (≤30)	-	-
	Chlorate	150000 ug/L	150000 ug/L	0 (≤30)	-	-
	Perchlorate	970000 ug/L	990000 ug/L	2 (≤30)	-	-
	Total dissolved solids	3500 mg/L	3900 mg/L	11 (≤30)	-	-
	рН	6.69 SU	6.69 SU	0 (≤30)	-	-

		Concen				
SDG	Analyte	ART-8A - 2021 07 14	ART-8A - 2021 07 14-FD	RPD (Limits)	Flag	A or P
550-167061-1	Hexavalent chromium	79 ug/L	84 ug/L	6 (≤30)	-	-
	Nitrate as N	11 mg/L	7.5 mg/L	38 (≤30)	J (all detects)	Α
	Chlorate	54000 ug/L	54000 ug/L	0 (≤30)	-	-
	Perchlorate	65000 ug/L	63000 ug/L	3 (≤30)	-	-
	Total dissolved solids	6600 mg/L	7200 mg/L	9 (≤30)	-	-
	рН	7.00 SU	7.01 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-119 - 2021 07 14	PC-119 - 2021 07 14-FD	RPD (Limits)	Flag	A or P
550-167062-1	Nitrate as N	0.078 mg/L	0.13 mg/L	50 (≤30)	J (all detects)	Α
	Perchlorate	160 ug/L	160 ug/L	0 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1300 mg/L	8 (≤30)	-	-
	Field pH	7.41 SU	7.40 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW0.55-0.9-20210713	LVW0.55-0.9-20210713-FD	RPD (Limits)	Flag	A or P
550-167079-1	Chlorate	190 ug/L	190 ug/L	0 (≤30)	-	-
	Perchlorate	37 ug/L	36 ug/L	3 (≤30)	-	-
	Total dissolved solids	1100 mg/L	1000 mg/L	10 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW7.2-1.0-20210713	LVW7.2-1.0-20210713-FD	RPD (Limits)	Flag	A or P
550-167079-1	Chlorate	200 ug/L	190 ug/L	5 (≤30)	-	-
	Perchlorate	68 ug/L	66 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1000 mg/L	18 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW6.05-0.7-20210713	LVW6.05-0.7-20210713-FD	RPD (Limits)	Flag	A or P
550-167079-1	Chlorate	190 ug/L	180 ug/L	5 (≤30)	-	-
	Perchlorate	72 ug/L	74 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW6.05-0.7-20210713	LVW6.05-0.7-20210713-FD	RPD (Limits)	Flag	A or P
550-167079-2	Chlorate	190 ug/L	180 ug/L	5 (≤30)	-	-
	Perchlorate	72 ug/L	74 ug/L	3 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW7.2-1.0-20210806	LVW7.2-1.0-20210806-FD	RPD (Limits)	Flag	A or P
550-168583-1	Chlorate	170 ug/L	170 ug/L	0 (≤30)	-	-
	Perchlorate	0.47 ug/L	1.0U ug/L	200 (≤30)	NQ	-
	Total dissolved solids	1100 mg/L	1100 mg/L	0 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW6.05-0.7-20210806	LVW6.05-0.7-20210806-FD	RPD (Limits)	Flag	A or P
550-168583-1	Chlorate	170 ug/L	160 ug/L	6 (≤30)	-	-
	Perchlorate	19 ug/L	19 ug/L	0 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW0.55-0.9-20210805	LVW0.55-0.9-20210805-FD	RPD (Limits)	Flag	A or P
550-168583-1	Chlorate	230 ug/L	260 ug/L	12 (≤30)		-
	Perchlorate	47 ug/L	48 ug/L	2 (≤30)	-	-
550-168583-1	Total dissolved solids	1100 mg/L	1200 mg/L	9 (≤30)	-	-

		Conce				
SDG	Analyte	I-Y - 2021 08 09	I-Y - 2021 08 09-FD	RPD (Limits)	Flag	A or P
550-168668-1	Hexavalent chromium	1700 ug/L	1600 ug/L	6 (≤30)	-	-
	Nitrate as N	62 mg/L	61 mg/L	2 (≤30)	-	-
	Chlorate	360000 ug/L	360000 ug/L	0 (≤30)	-	-
	Perchlorate	400000 ug/L	410000 ug/L	2 (≤30)	-	-
	Total dissolved solids	4700 mg/L	4500 mg/L	4 (≤30)	-	-
	Field pH	7.31 SU	7.31 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	E2-1 - 2021 08 11	E2-1 - 2021 08 11-FD	RPD (Limits)	Flag	A or P
550-168851-1	Hexavalent chromium	23 ug/L	24 ug/L	4 (≤30)	-	-
	Nitrate as N	20 mg/L	19 mg/L	5 (≤30)	-	-
	Chlorate	10000 ug/L	15000 ug/L	40 (≤30)	J (all detects)	А
	Perchlorate	110000 ug/L	86000 ug/L	24 (≤30)	-	-
	Total dissolved solids	2900 mg/L	2800 mg/L	4 (≤30)	-	-
	Field pH	6.89 SU	6.88 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-121 - 2021 08 12	PC-121 - 2021 08 12-FD	RPD (Limits)	Flag	A or P
550-168955-1	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-
	Field pH	7.45 SU	7.45 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-150 - 2021 08 12	PC-150 - 2021 08 12-FD	RPD (Limits)	Flag	A or P
550-168958-1	Hexavalent chromium	40 ug/L	1.0U ug/L	200 (≤30)	NQ	-
	Nitrate as N	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chlorate	91000 ug/L	110000 ug/L	19 (≤30)	-	-
	Perchlorate	49000 ug/L	49000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5500 mg/L	6100 mg/L	10 (≤30)	-	-
	Field pH	7.29 SU	7.29 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	M-95 - 20210817	M-95 - 20210817-FD4	RPD (Limits)	Flag	A or P
550-169157-1	Hexavalent chromium	300 ug/L	300 ug/L	0 (≤30)	-	-
	Perchlorate	130000 ug/L	130000 ug/L	0 (≤30)	-	-
	Total dissolved solids	5500 mg/L	6100 mg/L	10 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW7.2-1.1-20210902	LVW7.2-1.1-20210902-FD	RPD (Limits)	Flag	A or P
550-170104-1	Chlorate	160 ug/L	150 ug/L	6 (≤30)	-	-
	Perchlorate	1.7 ug/L	1.6 ug/L	6 (≤30)	-	-
	Total dissolved solids	1000 mg/L	1000 mg/L	0 (≤30)	-	-

		Concentration (mg/L)				
SDG	Analyte	LVW6.05-1.2-20210902	LVW6.05-1.2-20210902-FD	RPD (Limits)	Flag	A or P
550-170104-1	Chlorate	170 ug/L	170 ug/L	0 (≤30)	-	-
	Perchlorate	7.5 ug/L	7.5 ug/L	0 (≤30)	-	-
	Total dissolved solids	1100 mg/L	940 mg/L	16 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW0.55-1.2-20210902	LVW0.55-1.2-20210902-FD	RPD (Limits)	Flag	A or P
550-170104-1	Chlorate	180 ug/L	180 ug/L	0 (≤30)	-	-
	Perchlorate	44 ug/L	44 ug/L	0 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1400 mg/L	7 (≤30)	-	-

		Conc				
SDG	Analyte	I-AA-2021 09 08	I-AA-2021 09 08-FD	RPD (Limits)	Flag	A or P
550-170283-1	Hexavalent chromium	56 ug/L	56 ug/L	0 (≤30)	-	1
	Nitrate as N	14 mg/L	13 mg/L	7 (≤30)	-	-
	Chlorate	19000 ug/L	19000 ug/L	0 (≤30)	-	-
	Perchlorate	31000 ug/L	31000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2900 mg/L	2900 mg/L	0 (≤30)	-	-
	Field pH	7.01 SU	7.00 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	E2-3-2021 09 13	E2-3-2021 09 13-FD	RPD (Limits)	Flag	A or P
550-170535-1	Hexavalent chromium	74 ug/L	84 ug/L	13 (≤30)	-	-
	Nitrate as N	77 mg/L	79 mg/L	3 (≤30)	-	-
	Chlorate	20000 ug/L	20000 ug/L	0 (≤30)	-	-
	Perchlorate	980000 ug/L	1000000 ug/L	2 (≤30)	-	-
	Total dissolved solids	3200 mg/L	3600 mg/L	12 (≤30)	-	-
	Field pH	7.01 SU	7.01 SU	0 (≤30)	-	-

		Conc				
SDG	Analyte	ART-2/2A-2021 09 15	ART-2/2A-2021 09 15-FD	RPD (Limits)	Flag	A or P
550-170729-1	Hexavalent chromium	3.3 ug/L	3.4 ug/L	3 (≤30)	-	-
	Nitrate as N	1.6 mg/L	2.6 mg/L	48 (≤30)	J (all detects)	Α
	Chlorate	6300 ug/L	6100 ug/L	3 (≤30)	-	-
	Perchlorate	9900 ug/L	9800 ug/L	1 (≤30)	-	-
	Total dissolved solids	8300 mg/L	7600 mg/L	9 (≤30)	-	-
	Field pH	6.78 SU	6.78 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-99R2/R3-2021 09 15	PC-99R2/R3-2021 09 15-FD	RPD (Limits)	Flag	A or P
550-170730-1	Nitrate as N	6.5 mg/L	6.6 mg/L	2 (≤30)	-	-
	Chlorate	11000 ug/L	12000 ug/L	9 (≤30)	-	-
	Perchlorate	17000 ug/L	17000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2900 mg/L	4 (≤30)	-	-
	Field pH	7.45 SU	7.45 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	E2-5-2021 10 06	E2-5-2021 10 06-FD	RPD (Limits)	Flag	A or P
550-171878-1	Hexavalent chromium	170 ug/L	170	0 (≤30)	ı	-
	Nitrate as N	100 mg/L	120	18 (≤30)	-	-
	Chlorate	50000 ug/L	51000	2 (≤30)	-	-
	Perchlorate	140000 ug/L	140000	0 (≤30)	-	-
	Total dissolved solids	4700 mg/L	4100	14 (≤30)	-	-
	Field pH	7.13 SU	7.13 SU	0 (≤30)	-	-

		Concentration (mg/L)				
SDG	Analyte	E2-5-2021 10 06RE	E2-5-2021 10 06-FDRE	RPD (Limits)	Flag	A or P
550-171878-1	Nitrate as N	120	120	0 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW7.2-0.9-20211012	LVW7.2-0.9-20211012-FD	RPD (Limits)	Flag	A or P
550-172255-1	Chlorate	130 ug/L	140 ug/L	7 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1100 mg/L	9 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW6.05-0.9-20211011	LVW6.05-0.9-20211011-FD	RPD (Limits)	Flag	A or P
550-172255-1	Chlorate	120 ug/L	120 ug/L	0 (≤30)	-	-
	Perchlorate	13 ug/L	12 ug/L	8 (≤30)	-	-
	Total dissolved solids	1000 mg/L	1000 mg/L	0 (≤30)	-	-

		Concentration				
SDG	Analyte	LVW0.55-1.0-20211011	LVW0.55-1.0-20211011-FD	RPD (Limits)	Flag	A or P
550-172255-1	Chlorate	180 ug/L	180 ug/L	0 (≤30)	-	-
	Perchlorate	48 ug/L	44 ug/L	9 (≤30)	-	-
	Total dissolved solids	1200 mg/L	1400 mg/L	15 (≤30)	-	-

		Concentration				
SDG	Analyte	I-AC-2021 10 13	I-AC-2021 10 13-FD	RPD (Limits)	Flag	A or P
550-172353-1	Hexavalent chromium	2000 ug/L	2100 ug/L	5 (≤30)	-	-
	Nitrate as N	12 mg/L	12 mg/L	0 (≤30)	-	-
	Chlorate	550000 ug/L	530000 ug/L	4 (≤30)	-	-
	Perchlorate	200000 ug/L	230000 ug/L	14 (≤30)	-	-
	Total dissolved solids	5300 mg/L	5000 mg/L	6 (≤30)	-	-
	Field pH	7.35 SU	7.35 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	PC-116R-2021 10 14	PC-116R-2021 10 14-FD	RPD (Limits)	Flag	A or P
550-172353-1	Hexavalent chromium	4.9 ug/L	4.8 ug/L	2 (≤30)	-	-
	Nitrate as N	6.5 mg/L	6.4 mg/L	2 (≤30)	-	-
	Chlorate	14000 ug/L	15000 ug/L	7 (≤30)	-	-
	Perchlorate	15000 ug/L	15000 ug/L	0 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2800 mg/L	0 (≤30)	-	-
	Field pH	7.36 SU	7.36 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	ART-4-2021 10 14	ART-4-2021 10 14-FD	RPD (Limits)	Flag	A or P
550-172353-1	Hexavalent chromium	130 ug/L	120 ug/L	8 (≤30)	-	
	Nitrate as N	13 mg/L	13 mg/L	0 (≤30)	-	-
	Chlorate	130000 ug/L	120000 ug/L	8 (≤30)	-	-
	Perchlorate	120000 ug/L	130000 ug/L	8 (≤30)	-	-
	Total dissolved solids	4500 mg/L	4500 mg/L	0 (≤30)	-	-
	Field pH	6.93 SU	6.93 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	M-11-20211102	M-11-20211102-FD4	RPD (Limits)	Flag	A or P
550-173530-1	Total dissolved solids	7600 mg/L	7200 mg/L	5 (≤30)	-	-
	Nitrate as N	8.2 mg/L	8.3 mg/L	1 (≤30)	-	-
	Chlorate	540000 ug/L	560000 ug/L	4 (≤30)	-	-
	Perchlorate	62000 ug/L	63000 ug/L	2 (≤30)	-	-
	Hexavalent chromium	940 ug/L	1000 ug/L	6 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-130-20211103	PC-130-20211103-FD6	RPD (Limits)	Flag	A or P
550-173618-1	Total dissolved solids	7000 mg/L	6800 mg/L	3 (≤30)	-	-
	Nitrate as N	34 mg/L	34 mg/L	0 (≤30)	-	-
	Chlorate	300000 ug/L	290000 ug/L	3 (≤30)	-	-
	Perchlorate	260000 ug/L	260000 ug/L	0 (≤30)	-	-

		Concentration				
SDG	Analyte	ARP-1-20211103	ARP-1-20211103-FD7	RPD (Limits)	Flag	A or P
550-173618-1	Total dissolved solids	3900 mg/L	4000 mg/L	3 (≤30)	-	-
	Nitrate as N	9.3 mg/L	9.3 mg/L	0 (≤30)	-	-
	Chlorate	6700 ug/L	6600 ug/L	2 (≤30)	-	-
	Perchlorate	39000 ug/L	39000 ug/L	0 (≤30)	-	-

		Concentration				
SDG	Analyte	E1-2-20211103	E1-2-20211103-FD	RPD (Limits)	Flag	A or P
550-173631-1	Total dissolved solids	4200 mg/L	3600 mg/L	15 (≤30)	-	-
	Nitrate as N	82 mg/L	78 mg/L	5 (≤30)	-	-
	Chlorate	210000 ug/L	190000 ug/L	10 (≤30)	-	-
	Perchlorate	1400000 ug/L	1100000 ug/L	24 (≤30)	-	-
	Hexavalent chromium	480 ug/L	480 ug/L	0 (≤30)	-	-
	Field pH	7.12 SU	7.11 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	M-83-20211104	M-83-20211104-FD8	RPD (Limits)	Flag	A or P
550-173773-1	Total dissolved solids	900 mg/L	1000 mg/L	11 (≤30)	-	-
	Nitrate as N	6.7 mg/L	6.8 mg/L	1 (≤30)	-	-
	Chlorate	52000 ug/L	51000 ug/L	2 (≤30)	-	-
	Perchlorate	57000 ug/L	56000 ug/L	2 (≤30)	-	-

		Concentration				
SDG	Analyte	I-B-20211104	I-B-20211104-FD	RPD (Limits)	Flag	A or P
550-173776-1	Total dissolved solids	2700 mg/L	3100 mg/L	14 (≤30)	-	-
	Nitrate as N	54 mg/L	57 mg/L	5 (≤30)	-	-
	Chlorate	59000 ug/L	61000 ug/L	3 (≤30)	-	-
	Perchlorate	290000 ug/L	290000 ug/L	0 (≤30)	-	-
	Hexavalent chromium	220 ug/L	220 ug/L	0 (≤30)	-	-
	Field pH	6.82 SU	6.82 SU	0 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-58-20211105	PC-58-20211105-FD5	RPD (Limits)	Flag	A or P
550-173858-1	Total dissolved solids	2300 mg/L	1900 mg/L	19 (≤30)	-	
	Nitrate as N	9.7 mg/L	9.7 mg/L	0 (≤30)	-	-
	Chlorate	59000 ug/L	58000 ug/L	2 (≤30)	-	-
	Perchlorate	720 ug/L	780 ug/L	8 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-59-20211105	PC-59-20211105-FD9	RPD (Limits)	Flag	A or P
550-173858-1	Total dissolved solids	1600 mg/L	1500 mg/L	6 (≤30)	-	-
	Nitrate as N	0.79 mg/L	0.81 mg/L	3 (≤30)	-	-
	Chlorate	55 ug/L	54 ug/L	2 (≤30)	-	-
	Perchlorate	250 ug/L	230 ug/L	8 (≤30)	-	-

		Concentration				
SDG	Analyte	PC-118-20211115	PC-118-20211115-FD	RPD (Limits)	Flag	A or P
550-174306-1	Total dissolved solids	1700 mg/L	1700 mg/L	0 (≤30)	1	
	Field pH	7.18 SU	7.19 SU	0 (≤30)	-	-
	Nitrate as N	0.66 mg/L	0.64 mg/L	3 (≤30)	-	-
	Chlorate	420 ug/L	430 ug/L	2 (≤30)	-	-
	Perchlorate	1200 ug/L	1200 ug/L	0 (≤30)	-	-

		Concen				
SDG	Analyte	ART-8-20211115	ART-8A-20211115-FD	RPD (Limits)	Flag	A or P
550-174309-1	Total dissolved solids	9600 mg/L	9600 mg/L 9700 mg/L		-	-
Field pH		7.36 SU	7.11 SU	3 (≤30)	-	-
	Nitrate as N	11 mg/L	11 mg/L	0 (≤30)	-	-
	Chlorate	82000 ug/L	84000 ug/L	2 (≤30)	-	-
	Perchlorate	61000 ug/L	60000 ug/L	2 (≤30)	-	-
	Hexavalent chromium	69 ug/L	48 ug/L	36 (≤30)	J (all detects)	Α

		Conce				
SDG	Analyte	LVW7.2-1.0-20211116 LVW7.2-1.0-20211116-FD I		RPD (Limits)	Flag	A or P
550-174397-1	Total dissolved solids	1000 mg/L	980 mg/L	2 (≤30)	-	-
	Chlorate	160 ug/L	170 ug/L	6 (≤30)	-	1

		Conce				
SDG	Analyte	LVW6.05-0.8-20211116	LVW6.05-0.8-20211116-FD	RPD (Limits)	Flag	A or P
550-174397-1	Total dissolved solids	1200 mg/L	1300 mg/L	8 (≤30)	-	-
	Chlorate	150 ug/L	150 ug/L	0 (≤30)	-	-
	Perchlorate	23 ug/L	23 ug/L	0 (≤30)	-	-

		Conce				
SDG	Analyte	LVW0.55-0.9-20211115	LVW0.55-0.9-20211115-FD	RPD (Limits)	Flag	A or P
550-174397-1	Total dissolved solids	1100 mg/L	1200 mg/L	9 (≤30)	-	-
	Chlorate	140 ug/L	140 ug/L	0 (≤30)	-	-
	Perchlorate	39 ug/L	40 ug/L	3 (≤30)	-	-

		Conce				
SDG	Analyte	LVW7.2-1.0-20211207 LVW7.2-1.0-20211207-FD		RPD (Limits)	Flag	A or P
550-175450-1	Chlorate	88 ug/L	87 ug/L	1 (≤30)	-	-
	Perchlorate	1.3 ug/L	1.4 ug/L	7 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1300 mg/L	0 (≤30)	-	-

		Conce				
SDG	Analyte	LVW6.05-1.0-20211207 LVW6.05-1.0-20211207-FD		RPD (Limits)	Flag	A or P
550-175450-1	Chlorate	93 ug/L	90 ug/L	3 (≤30)	-	-
	Perchlorate	10 ug/L	11 ug/L	10 (≤30)	-	-
	Total dissolved solids	1400 mg/L	1300 mg/L	7 (≤30)	-	-

		Conce				
SDG	Analyte	LVW0.55-1.2-20211208 LVW0.55-1.2-20211208-FD		RPD (Limits)	Flag	A or P
550-175450-1	Chlorate	110 ug/L	110 ug/L	0 (≤30)	-	-
	Perchlorate	40 ug/L	39 ug/L	3 (≤30)	-	-
	Total dissolved solids	1300 mg/L	1200 mg/L	8 (≤30)	-	-

		Conce				
SDG	Analyte	I-D-20211208	I-D-20211208-FD	RPD (Limits)	Flag	A or P
550-175456-1	Hexavalent chromium	3500 ug/L	3500 ug/L 3400 ug/L		1	-
Nitrate as N		46 mg/L	44 mg/L	4 (≤30)	-	-
	Chlorate	1100000 ug/L	1100000 ug/L	0 (≤30)	-	-
	Perchlorate	470000 ug/L	480000 ug/L	2 (≤30)	-	-
	Total dissolved solids	6100 mg/L	6200 mg/L	2 (≤30)	-	-
	Field pH	7.55 SU	7.55 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	PC-150-20211215	PC-150-20211215-FD	RPD (Limits)	Flag	A or P
550-175896-1	Hexavalent chromium	45 ug/L	45 ug/L 44 ug/L		-	-
Nitrate as N		12 mg/L	12 mg/L	0 (≤30)	-	-
	Chlorate	32000 ug/L	39000 ug/L	20 (≤30)	-	-
	Perchlorate	48000 ug/L	48000 ug/L 46000 ug/L		-	-
	Total dissolved solids	4600 mg/L	4300 mg/L	7 (≤30)	-	-
	Field pH	7.26 SU	7.25 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	PC-120-20211215 PC-120-20211215-FD		RPD (Limits)	Flag	A or P
550-175897-1	Chlorate	3.3 ug/L	3.8 ug/L	14 (≤30)	-	-
	Total dissolved solids	1500 mg/L	1500 mg/L	0 (≤30)	-	-
	Field pH	7.34 SU	7.34 SU	0 (≤30)	-	-

		Conce				
SDG	Analyte	E2-1-20211216	E2-1-20211216-FD	RPD (Limits)	Flag	A or P
550-175989-1	Hexavalent chromium	27 ug/L	26 ug/L	4 (≤30)	-	-
	Nitrate as N	14 mg/L	14 mg/L	0 (≤30)	-	-
	Chlorate	11000 ug/L	13000 ug/L	17 (≤30)	-	-
	Perchlorate	85000 ug/L	83000 ug/L	2 (≤30)	-	-
	Total dissolved solids	2800 mg/L	2700 mg/L	4 (≤30)	-	-
	Field pH	7.40 SU	7.40 SU	0 (≤30)	-	-

NQ = No data were qualified when either the primary or duplicate result was not detected or was below the practical quantitation limit (PQL).

IX. Target Analyte Quantitation

All target analyte quantitations were acceptable with the following exceptions:

SDG	Sample	Analyte	Finding	Criteria	Flag	A or P
550-168267-1	I-E - 2021 08 03	Nitrate as N	Sample result exceeded linear range.	Reported result should be within linear range.	J (all detects)	А

X. Overall Assessment of Data

The analysis was conducted within all specifications of the methods.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed not reportable as follows:

SDG	Sample	Analyte	Reason	Flag	A or P
550-166608-1	I-O-2021 07 07	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-166991-1	E2-2 – 2021 07 03	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	Results exceeded calibration range.	Do not report	-
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2 E2-5-2021 10 06RE E2-5-2021 10 06-FDRE	Nitrate as N	Re-analyzed to confirm the original result.	Do not report	-
550-173776-1	I-R-20211104RE	Perchlorate	Re-analyzed to confirm the original result.	Do not report	-
550-174110-1	I-Q-20211110RE I-T-20211110RE I-U-20211110RE I-W-20211110RE I-O-20211110RE	Perchlorate	Re-analyzed to confirm the original result.	Do not report	-
550-175989-1	E2-2-20211216 E2-3-20211216 E2-1-20211216-FD	Total dissolved solids	Per the case narrative, the samples were incorrectly prepared	Do not report	-

Due to technical holding time, MS/MSD %R, RPD, field duplicate RPD and calibration range exceedance, one hundred eight (108) results were qualified as estimated.

NERT GWM Performance Sampling, July-December 2021

Wet Chemistry - Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-175896-1, 550-175989-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-166608-1	I-O-2021 07 07DL	Nitrate as N	J- (all detects)	Α	Technical holding times (h)
550-166991-1	E2-2 – 2021 07 13DL	Nitrate as N	J- (all detects)	А	Technical holding times (h)
550-170535-1	E1-3-2021 09 13	Nitrate as N	J- (all detects)	Р	Technical holding times (h)
550-173776-1	I-R-20211104	Perchlorate	J- (all detects)	Р	Technical holding times (h)
550-174397-1	LVW3.5-6-1.7-20211115 LVW0.55-0.9-20211115 LVW0.55-0.9-20211115-FD LVW0.55-20211115-FB	Total dissolved solids	J- (all detects) UJ (all non-detects)	Р	Technical holding times (h)
550-175989-1	E2-2-20211216RE E2-3-20211216RE E2-1-20211216-FDRE	Total dissolved solids	J- (all detects)	Р	Technical holding times (h)
550-166607-1	I-C-2021 07 07 I-F-2021 07 07 I-X-2021 07 07 I-N-2021 07 07 I-E-2021 07 07 I-M-2021 07 07 I-D-2021 07 07	Hexavalent chromium	J+ (all detects)	А	Matrix spike/Matrix spike duplicate (%R) (m)
550-166608-1	I-Q-2021 07 07 I-G-2021 07 07 I-T-2021 07 07 I-U-2021 07 07 I-H-2021 07 07 I-P-2021 07 07 I-W-2021 07 07 I-O-2021 07 07 I-W-2021 07 07	Hexavalent chromium	J+ (all detects)	А	Matrix spike/Matrix spike duplicate (%R) (m)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-166991-1	E1-1 - 2021 07 13 E1-2 - 2021 07 13 E1-3 - 2021 07 13 E2-3 - 2021 07 13 E2-4 - 2021 07 13	Chlorate	J+ (all detects)	А	Matrix spike/Matrix spike duplicate (%R) (m)
550-166991-1	E2-1 - 2021 07 13 E2-2 - 2021 07 13	Chlorate	J+ (all detects)	Α	Matrix spike/Matrix spike duplicate (%R) (m)
550-168669-1	I-Q - 2021 08 09 I-G - 2021 08 09 I-T - 2021 08 09 I-U - 2021 08 09 I-H - 2021 08 09 I-P - 2021 08 09 I-W - 2021 08 09 I-O - 2021 08 09	Chlorate	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168851-1	E1-2 - 2021 08 11 E1-3 - 2021 08 11 E2-1 - 2021 08 11 E2-2 - 2021 08 11 E2-3 - 2021 08 11 E2-4 - 2021 08 11 E2-5 - 2021 08 11 E2-1 - 2021 08 11-FD	Chlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-168852-1	I-I - 2021 08 11 I-V - 2021 08 11	Hexavalent chromium	J+ (all detects)	Α	Matrix spike/Matrix spike duplicate (%R) (m)
550-168958-1	PC-150 - 2021 08 12	Hexavalent chromium	J+ (all detects)	А	Matrix spike/Matrix spike duplicate (%R) (m)
550-168958-1	ART-8A - 2021 08 12 ART-9 - 2021 08 12 PC-150 - 2021 08 12 PC-150 - 2021 08 12-FD	Chlorate	J+ (all detects)	А	Matrix spike/Matrix spike duplicate (%R) (m)
550-169062-1	I-AB - 2021 08 16	Hexavalent chromium Chlorate	J+ (all detects) J+ (all detects)	Α	Matrix spike/Matrix spike duplicate (%R) (m)
550-168669-1	I-Q - 2021 08 09 I-G - 2021 08 09 I-T - 2021 08 09 I-U - 2021 08 09 I-H - 2021 08 09 I-P - 2021 08 09 I-W - 2021 08 09 I-O - 2021 08 09	Chlorate	J (all detects)	А	Matrix spike/Matrix spike duplicate (RPD) (ld)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-170283-1	I-AA-2021 09 08 I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08	Hexavalent chromium	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170283-1	I-AB-2021 09 08 I-B-2021 09 08 I-R-2021 09 08 I-Y-2021 09 08 I-L-2021 09 08 I-S-2021 09 08 I-AR-2021 09 08 I-AA-2021 09 08-FD	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170388-1	I-Q-2021 09 09 I-G-2021 09 09 I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09	Nitrate as N	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170388-1	I-T-2021 09 09 I-U-2021 09 09 I-H-2021 09 09 I-P-2021 09 09 I-W-2021 09 09 I-O-2021 09 09	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-170535-1	E1-1-2021 09 13 E1-2-2021 09 13 E1-3-2021 09 13 E2-1-2021 09 13 E2-2-2021 09 13 E2-3-2021 09 13 E2-4-2021 09 13 E2-5-2021 09 13 E2-5-2021 09 13	Chlorate	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (m)
550-167061-1	ART-8A - 2021 07 14 ART-8A - 2021 07 14-FD	Nitrate as N	J (all detects)	А	Field duplicates (RPD) (fd)
550-167062-1	PC-119 - 2021 07 14 PC-119 - 2021 07 14-FD	Nitrate as N	J (all detects)	А	Field duplicates (RPD) (fd)
550-168851-1	E2-1 - 2021 08 11 E2-1 - 2021 08 11-FD	Chlorate	J (all detects)	А	Field duplicates (RPD) (fd)
550-170729-1	ART-2/2A-2021 09 15 ART-2/2A-2021 09 15-FD	Nitrate as N	J (all detects)	А	Field duplicates (RPD) (fd)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
550-174309-1	ART-8-20211115 ART-8A-20211115-FD	Hexavalent chromium	J (all detects)	А	Field duplicates (RPD) (fd)
550-168267-1	I-E - 2021 08 03	Nitrate as N	J (all detects)	А	Target analyte quantitation (exceeded range) (e)
550-166608-1	I-O-2021 07 07	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-166991-1	E2-2 - 2021 07 13	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-170282-1	I-M-2021 09 08DL I-D-2021 09 08DL	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-170283-1	I-AB-2021 09 08DL	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-171878-1	E1-3-2021 10 06RE1 E1-3-2021 10 06RE2 E2-5-2021 10 06RE E2-5-2021 10 06-FDRE	Nitrate as N	Do not report	-	Overall assessment of data (orr)
550-173776-1	I-R-20211104RE	Perchlorate	Do not report	-	Overall assessment of data (orr)
550-174110-1	I-Q-20211110RE I-T-20211110RE I-U-20211110RE I-W-20211110RE I-O-20211110RE	Perchlorate	Do not report	-	Overall assessment of data (orr)
550-175989-1	E2-2-20211216 E2-3-20211216 E2-1-20211216-FD	Total dissolved solids	Do not report	-	Overall assessment of data (orr)

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Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173430-1, 550-173530-1, 550-173618-1, 550-173631-1, 550-173773-1, 550-173775-1, 550-173776-1, 550-173858-1, 550-174110-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-174471-1, 550 - 175450-1, 550-175988-1, 550-175989-1

No Sample Data Qualified in these SDGs

NERT GWM Performance Sampling, July-December 2021

Wet Chemistry - Field Blank Data Qualification Summary - SDGs 550-166607-1, 550-166608-1, 550-166890-1, 550-166991-1, 550-167061-1, 550-167062-1, 550-167079-1, 550-167079-2, 550-167219-1, 550-168267-1, 550-168583-1, 550-168668-1, 550-168669-1, 550-168851-1, 550-168852-1, 550-168955-1, 550-168958-1, 550-169062-1, 550-169157-1, 550-169158-1, 550-169252-1, 550-169253-1, 550-169352-1, 550-170104-1, 550-170282-1, 550-170283-1, 550-170388-1, 550-170535-1, 550-170634-1, 550-170729-1, 550-170730-1, 550-171878-1, 550-172255-1, 550-172256-1, 550-172261-1, 550-172353-1, 550-172355-1, 550-172460-1, 550-172463-1, 550-173776-1, 550-173858-1, 550-173618-1, 550-174306-1, 550-174309-1, 550-174397-1, 550-174471-1, 550 - 175450-1, 550-175455-1, 550-175456-1, 550-175748-1, 550-175896-1, 550-175897-1, 550-175988-1, 550-175989-1

No Sample Data Qualified in these SDGs

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APPENDIX F
ELECTRONIC DATA DELIVERABLE (EDD)
(AVAILABLE ELECTRONICALLY ON USB FLASH DRIVE)

Semi-Annual Groundwater Monitoring and GWETS Performance Memorandum Nevada Environmental Response Trust Site Henderson, Nevada

APPENDIX G
ENVIRONMENTAL FOOTPRINT ANALYSIS

TABLE G-1: ENVIRONMENTAL FOOTPRINT INVENTORY DATA SOURCES, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site Henderson, Nevada

Parameter	Data Sources
Personnel	Personnel transportation estimates are compiled by the Trust, Ramboll, Tetra Tech, and Envirogen for tasks associated with the Groundwater Monitoring Program and the Groundwater Extraction and Treatment System (GWETS).
Transportation	Flight distances are estimated using the approximate distance from the starting location city/airport to Las Vegas airport. Driving distances are estimated using the approximate driving distance reported by Google Maps.
	Transportation associated with one-time events (e.g. system construction) is not included.
	Envirogen's gasoline usage for on-site vehicles is compiled from available vehicle analysis reports.
On-site Equipment Usage	Tetra Tech's and Ramboll's gasoline usage for on-site vehicles is estimated using approximate mileage amounts provided by field personnel and an assumed fuel efficiency determined based on type of vehicle used and type of vehicle usage.
	Estimates for fuel usage for other on-site equipment are provided by Envirogen.
	Equipment usage associated with one-time events (e.g. system construction) is not included.
Electricity Usage	Electricity usage is compiled from invoices received from the Colorado River Commission of Nevada and NV Energy.
Liectricity Osage	Fuel mix information for grid electricity is available from the Colorado River Commission of Nevada and NV Energy websites.
	Materials usage information is provided by Envirogen personnel based on electronic outputs from their process control systems.
	All information regarding specifications and formulations is obtained from Safety Data Sheets maintained at the Site.
Materials Usage and Transportation	Information regarding mode of transportation to the Site and location of manufacture is provided by Envirogen. Fuel types are assumed based on mode of transportation. Distances traveled are estimated based on the approximate distance between the manufacturing location and the Site.
	Materials usage and transportation associated with one-time events (e.g. system construction) is not included.
Waste Disposal and Transportation	Waste disposal and transportation information is compiled from invoices provided by Envirogen and Tetra Tech containing information regarding waste hauled off-site. Invoice line items are counted to determine the number of pickup trips. Distances traveled are estimated based on the distance between the disposal location and the Site.
Water Usage	Surface water usage is determined based on totalizer readings from the Site's main water supply line and subtracting totalizer readings associated with usage by Tronox (not part of Site operations). For periods when readings from the Site's main water supply line were not available, surface water usage was estimated by summing readings from individual point discharge locations.
Water Osage	Extracted groundwater is calculated from the GWETS field sheet maintained by Tetra Tech and Envirogen.
	GW-11 evaporation is estimated based on GW-11 stage area estimates provided by Envirogen and historic pan evaporation data (Shevenell 1996).
Off-site Laboratory Analyses	The total number of analyses conducted is compiled based on information available from the Site's Analytical Database maintained by Ramboll and only includes sampling related to GWETS operations or the groundwater monitoring program. Quality Assurance (QA) and Quality Control (QC) samples, including equipment blanks, field blanks, trip blanks, and field duplicates, are also included. Pricing information for each analytical method is estimated based on unit prices provided by TestAmerica.

TABLE G-2: PERSONNEL TRANSPORTATION, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Personnel Location/ Activities	Number of Personnel	Estimated Roundtrips to Site per Person	Roundtrip Distance to Site (miles)	Mode of Transportation	Transport Fuel Type	Notes	
		GWETS Activit	ties				
	1	84	30	Light-Duty Truck	Gasoline		
	3	84	30	Car	Gasoline		
GWETS Operations and Maintenance	1	120	20	Light-Duty Truck	Gasoline		
GWE13 Operations and Maintenance	1	120	20	Car	Gasoline		
	3	150	30	Car	Gasoline		
	3	150	30	Light-Duty Truck	Gasoline	[A]	
Extraction Well and Conveyance Maintenance	1	123	30	Van	Gasoline	[A]	
Extraction well and Conveyance Maintenance	1	123	30	Heavy-Duty Truck	Gasoline		
Groundwater Monitoring	1	123	30	Van	Gasoline		
General Site Management	1	120	30	Van	Gasoline		
General Site Management	1	120	30	Heavy-Duty Truck	Gasoline	1	
IX Monitoring and Management	1	123	30	Heavy-Duty Truck	Gasoline		
Director of Remediation	1	0	10	Car	Gasoline	[B]	
Chicago	1	1	3,020	Flight	NA	[B]	
Denver	1	2	1,260	Flight	NA	[C]	
Delivei	1	1	1,260	Flight	NA	[C]	
Las Vegas Area	2	5	20	Car	Gasoline	[C]	
Las vegas Alea	1	132	20	Car	Gasoline	[C]	
Medford	1	1	1,200	Flight	NA	[D]	
		GWM Activitie	es				
Boise	1	2	1,040	Flight	NA	[C]	
Pillingo	1	1	1,510	Flight	NA	[C]	
Billings	1	1	1,970	Car	Gasoline	[C]	
Denver	1	2	1,260	Flight	NA	[C]	
Irvine	1	1	540	Car	Gasoline	[C]	
Las Vegas Area	1	29	20	Car	Gasoline	[C]	
Las vegas Alea	1	16	20	Gai	Gasonine	[C]	
Phoenix	1	1	590	Car	Gasoline	[C]	
Sacramento	1	1	790	Car	Gasoline	[C]	
Salt Lake City	1	2	740	Flight	NA	[D]	

Notes

Due to national travel restrictions in place during the reporting period, some personnel traveled via car rather than flying and only essential trips to the Site were made (other routine business was conducted remotely).

- A) Travel estimates were provided by Envirogen.
- B) Travel estimates were provided by the Nevada Environmental Response Trust.
- C) Travel estimates were provided by Tetra Tech.
- D) Travel estimates were provided by Ramboll.
- E) Average roundtrip distances are rounded to the nearest 10 miles.
- F) For each flight, a 30-mile car trip is assumed to account for roundtrip transportation from the airport to the Site.

NA = Not Applicable

TABLE G-3: ON-SITE EQUIPMENT USAGE, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

On-site Equipment	Fuel Quantity (gallons)	Fuel Type	Notes					
GWETS Activities								
Combined Truck Use	1,060	Gasoline	[A]					
Back-up Air Compressor	10	Diesel	[B]					
Pressure Washer	24	Gasoline	[C]					
GWM Activities								
Combined Truck Use	190	Gasoline	[A]					

Notes

- A) Gasoline usage was estimated based on vehicle usage information provided by Envirogen, Tetra Tech, and Ramboll personnel. Estimates shown are rounded to the nearest 10 gallons.
- B) Personnel with Envirogen indicated approximately 20 gallons of diesel are used per year for operation of the back up air compressor at the groundwater treatment plant (GWTP).
- C) Personnel with Envirogen indicated approximately 4 gallons of gasoline are used per month for operation of the pressure washer.

TABLE G-4: ELECTRICITY USAGE, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Grid Electricity	Kilowatt-hours	Energy Source	Notes
Treatment Plant	2,237,822	Colorado River Commission of NV	[A]
Extraction Wells and Lift Stations	700,637	NV Energy	[B]
Total Electricity Used	2,938,459	-	-

Notes

https://www.nvenergy.com/publish/content/dam/nvenergy/bill_inserts/2022/01_jan/power-content-insert-south-2021_1_30.pdf

A) The Colorado River Commission of Nevada is responsible for acquiring and managing Nevada's water and hydropower resources from the Colorado River. Electricity provided by the Colorado River Commission of Nevada to the NERT Site is generated from hydropower resources.

B) NV Energy is listed as the electricity provider on invoices for the off-site extraction wells and pump stations. Information regarding the energy sources of electricity provided is available from the following document:

TABLE G-5: MATERIALS USAGE AND TRANSPORTATION, JULY - DECEMBER 2021 Nevada Environmental Response Trust Site Henderson, Nevada

Material Type	Quantity	Units	Location of Manufacture	One-way Distance to Site (miles)	Mode of Transportation	Specific Gravity	Density (lbs/gal)
Ferrous sulfate (FeSO ₄)	6,300	gal	South Gate, CA	250	Truck	1.203	10.02
PolymerDewater BF CP 9869	350	gal	Riceboro, GA	2,200	Truck	0.12	1.00
DAF polymer BF CP 2661	3,500	gal	Greensboro, South Carolina	2,250	Truck	1.03	8.60
Polymer Superfloc 4818 RS GWTP	370	lbs	Madison, Alabama	1,750	Truck	1.072	8.95
Lime (hydrated lime)	510	lbs	Sainte Genevieve, MO	1,600	Truck	2.2	-
Ethanol (190 proof)	42,000	gal	Peoria, IL	1,950 250	Train Truck	0.817	-
Phosphoric acid (H ₃ PO ₄)	2,000	gal	Pocatello, ID	600	Truck	1.20-1.26	10.0-10.5
pH adjustment (NaOH)	7,900	gal	Plaquemine, LA	1,650	Train/Truck	1.33	11.1
Micronutrients (VWNA micronutrient)	4,400	gal	South Gate, CA	250	Truck	1.1075	9.24
Hydrogen peroxide (H ₂ O ₂)	8,800	gal	Longview, WA Woodstock, TN	1,050 1,600 Truck		1.1327	9.44
Ferric chloride (FeCl ₃)	3,700	gal	Vernon, CA	300	Truck	-	11.8-12.0
lon exchange (IX) resin	200	cubic feet	India	10,400 2,550	Boat Truck	1.0-1.15	-
Granular activated carbon (GAC)	0	lbs	Pittsburg, PA	2,200	Truck	0.4-0.7	3.3-5.8

<u>Notes</u>

gal = gallons lbs = pounds

A) Materials usage information is provided by Envirogen personnel based on electronic outputs from their process control systems and inventory ordering information. Envirogen reported all materials are refined and none of the materials are from recycled sources.

- C) Specific gravity and density information for each material is obtained from Safety Data Sheets maintained at the Site.
- D) According to Envirogen personnel, the GAC is tested annually for potential contaminant breakthrough and is replaced only if breakthrough is observed. Approximately one hundred percent of the GAC is regenerated and reused.

B) Information regarding location of manufacture and mode of transportation is provided by Envirogen personnel. Approximate one-way distance to the Site is estimated using Google Maps rounded to the nearest 50 miles.

TABLE G-6: WASTE DISPOSAL AND TRANSPORTATION, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Waste Generated	Notes	Quantity	Units	Number of Trips	Treatment/ Disposal Site	One-way Distance to Site (miles)	Mode of Transportation		
Fluidized Bed Reactor (FBR) Sludge		194	tons	40	Δ	A	A = = ×		
Groundwater Water Treatment Plant (GWTP) Sludge	Α	7	tons	1	Apex Industrial Solid	30			
lon Exchange (IX) Resin		7	tons	3	Landfill		Truck		
Hazardous cleaning solution	В	2,500	gallons	2	US Ecology	120			

Notes

A) Information regarding FBR sludge, GWTP sludge, IX resin and Spent GAC hauled off-site was compiled from invoices provided by Envirogen personnel.

B) Information regarding wastes from the Hydrogen-based Gas Permeable Membrane (HGPM) Pilot System was provided by Tetra Tech. The activities associated with the HGPM are included as GWETS activities.

TABLE G-7: WATER USAGE, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Water Source	Quantity	Unit	Use/Fate
Extracted Groundwater	331	MGal	Treat and discharge to Las Vegas Wash
Lake Mead	7.3	MGal	See Note A
GW-11 Evaporation	19.0	MGal	Evaporation - See Note B

Notes

MGal = million gallons

A) Lake Mead water is used for granular activated carbon (GAC) backwash events, which occur on average three times per month. Lake Mead water is also used for Fluidized Bed Reactor (FBR) polymer additions, groundwater treatment plant polymer additions, washing down equipment in the treatment plant, sanitary water, seal water for FBR pumps, AP Area flushing, and AP-5 solids removal and treatment (which ended in the second half of 2018). After use, Lake Mead water is discharged to GW-11 and then eventually treated and discharged to Las Vegas Wash, except for sanitary water which is discharged to an on-site septic system.

B) GW-11 evaporation was estimated using information contained within the GW-11 Pond Volume Model maintained by Envirogen. The GW-11 Pond Volume Model includes measured pond water levels (collected approximately twice per month) and corresponding calculated pond volume and stage area estimates. Stage area estimates and historical pan evaporation data (Shevenell 1996) are used to calculate estimated evaporation during the reporting period. Details of these calculations are included in the SEFA input workbook.

TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2021 Nevada Environmental Response Trust Site Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
Groundwater Extraction and Treatment System (GWETS) Analyses			
East Well Feed and West Well Feed - Wed	ekly		
Chromium	EPA 200.7	\$25	52
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	52
Perchlorate	EPA 314.0	\$25	52
FBR Plant Influent - Weekly	•		
Chromium	EPA 200.7	\$25	26
Iron	EPA 200.7	\$8	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EDA 200 ODCEMO	\$8	26
Nitrite as N	EPA 300_ORGFMS	\$8	26
Total Inorganic Nitrogen	NTOTAL	\$5	26
Perchlorate	EPA 314.0	\$25	26
Nitrogen, Kjeldahl	EPA 351.2	\$25	26
Ammonia as N	SM400-NH3-D	\$20	26
FBR Plant Effluent - Weekly	•		
Chromium	EPA 200.7	\$25	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EPA 300_ORGFMS	\$8	26
Perchlorate	EPA 314.0	\$25	26
FBR Effluent and FBR Influent - Monthly	•		
Chlorate	EPA 300.1	\$12	12
FBR Influent - Quarterly	•		
Manganese	EPA 200.7	\$25	2
Total Dissolved Solids	SM 2540C	\$10	2
GW-11 Composite	•		
Calcium	EDA 200.7	\$25	2
Iron	EPA 200.7	\$8	2
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	2
Chloride	EDA 200 OBCEM 20D	\$8	2
Sulfate	EPA 300_ORGFM_28D	\$8	2
Chlorate	EPA 300.1	\$12	2
Total Suspended Solids	SM 2540D	\$10	2
рН	SM 4500H+	\$8	2
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	8
GW-11 Static Mixer			
Chromium	EPA 200.7	\$25	6
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	6
Perchlorate	EPA 314.0	\$25	6

TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
GWTP Discharge	•		
Chromium	EPA 200.7	\$25	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Perchlorate	EPA 314.0	\$25	26
IX Effluent - Composite and IX Influent -	Composite		
Perchlorate	EPA 314.0	\$25	52
IX Influent			
Chromium		\$25	6
Molybdenum	EPA 200.7	\$8	6
Selenium	L1 A 200.7	\$8	6
Vanadium		\$8	6
Uranium	EPA 200.8	\$8	6
Total Phosphorus as P	EPA 365.3	\$22	6
Bicarbonate as HCO3			
Carbonate as CO3	SM 2320	\$11	6
Total Alkalinity as CaCO3			
Total Dissolved Solids	SM 2540C	\$10	2
Outfall 001 Effluent - Quarterly	•		
Antimony			
Arsenic			2
Beryllium			
Boron			
Cadmium			
Chromium			
Copper	EPA 200.7	\$100	
Lead			
Nickel			
Selenium			
Silver			
Thallium			
Zinc			
Mercury	EPA 245.1	\$22	2
Chloride	EPA 300_ORGFM_28D	\$8	2
Asbestos	EPA 600/R-94-134	\$306	2
Pesticides & PCBs	EPA 608	\$120	2
Volatile Organics	EPA 624	\$45	4
Base Neutral Acid Extractables	EPA 625	\$125	2
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 1613B	\$325	2
Oil & Grease	EPA 1664	\$35	2
Total Dissolved Solids	SM 2540C	\$10	2

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TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
Cyanide, Total	SM 4500-CN-E	\$33	2
Outfall 001 Effluent - Monthly	•	•	
Sulfate	EPA 300_ORGFM_28D	\$8	6
Sulfide	SM 4500-S2-D	\$23	6
Outfall 001 Effluent - Weekly	•	•	
Chromium	EPA 200.7	\$25	26
Iron	EPA 200.7	\$8	26
Manganese	EPA 200.7	\$8	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EDA 200 ODOEMO	\$8	26
Nitrite as N	EPA 300_ORGFMS	\$8	26
Total Inorganic Nitrogen	NTOTAL	\$5	26
Perchlorate	EPA 314.0	\$25	26
Ammonia as N	EPA 350.1	\$20	26
Total Phosphorus as P	EPA 365.3	\$22	26
Apparent Color	0110100	\$10	26
Hq	SM 2120	\$8	26
Total Suspended Solids	SM 2540D	\$10	26
Dissolved Oxygen	SM 4500 OG	\$10	26
pH	SM 4500H+	\$8	26
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	26
Carbonaceous Biochemical Oxygen Demand	SM 5210B	\$30	26
Las Vegas Wash 5.5	•	•	
Iron	EDA 000 7	\$25	2
Manganese	EPA 200.7	\$8	2
Total Dissolved Solids	SM 2540C	\$10	2
GW-11 Composite		-	
Arsenic		\$25	2
Boron		\$8	2
Chromium	EPA 200.7	\$8	2
Manganese		\$8	2
Selenium		\$8	2
Nitrate as N	EPA 300_ORGFMS	\$8	2
Nitrite as N		\$8	2
Total Inorganic Nitrogen	NTOTAL	\$5	2
Perchlorate	EPA 314.0	\$25	2
Ammonia as N	EPA 350.1	\$20	2
Total Phosphorus as P	EPA 365.3	\$22	2
Total Dissolved Solids	SM 2540C	\$10	2
Estimated Total Cost of GWETS Analyses		\$27,	624

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TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2021 Nevada Environmental Response Trust Site Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
	Performance Monitoring (PM) Analyses		
Performance Monitoring Program V	Vells		
Chromium	EPA 200.7	\$25	524
Chromium, Hexavalent	EPA 218.6	\$50	408
Nitrate as N	EPA 300_ORGFMS	\$8	508
Chlorate	EPA 300.1	\$12	508
Perchlorate	EPA 314.0	\$25	524
Total Dissolved Solids	SM 2540C	\$10	524
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	384
NPDES Requirements for Performa	nce Monitoring Well M-10	<u>'</u>	
Arsenic		\$8	2
Boron		\$8	2
Iron	EPA 200.7	\$8	2
Manganese		\$8	2
Selenium		\$8	2
Chloride	EPA 300_ORGFM_28D	\$8	2
Nitrite as N	EPA 300_ORGFMS	\$8	2
Ammonia as N	EPA 350.1	\$20	2
Total Inorganic Nitrogen	NTOTAL	\$5	2
RCRA Requirements for Performan	ce Monitoring Wells H-28A, M-5A, M-6A, and I	M-7B	
Boron		\$8	4
Iron	EPA 200.7	\$8	4
Manganese	EPA 200.7	\$8	4
Sodium		\$8	4
Chloride	EDA 200 OBCEM 20D	\$8	4
Sulfate	EPA 300_ORGFM_28D	\$8	4
Phenols	EPA 420	\$35	4
Specific Conductance	SM 2510	\$10	4
Total Organic Carbon	SM 5310C	\$30	4
Total Organic Halides	SW 9020B	\$75	4
Performance Monitoring Program S	Surface Water Sampling		
Chlorate	EPA 300.1	\$12	222
Perchlorate	EPA 314.0	\$25	222
Total Dissolved Solids	SM 2540C	\$10	222
Performance Monitoring Program N	Northshore Road (LVW 0.55)	•	
Perchlorate	EPA 314.0	\$25	12
Estimated To	otal Cost of PM Analyses	\$73,	688

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TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2021

Nevada Environmental Response Trust Site Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
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Notes

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A) Analytical costs were estimated based on TestAmerica Laboratories Inc. 2017 Unit Price List for NERT Projects included in the Master Project Subcontract Agreement between Ramboll and TestAmerica and correspondence with TestAmerica. Laboratory method names, matrix designations, and total number of analyses conducted were compiled from laboratory EDDs maintained in the NERT project database.