

Purge Data: M-142																		
Parameter Parameter Unit Stability			Temp. C ± 3%	pH SU ± 0.1		Conductivity mS/cm ± 3%		DO mg/L ± 10% or <0.5		ORP mV ± 10		Turbidity NTU ± 10% or <10		Purge Rate mL/min	Depth to Water ft	Cum. Vol. Purged mL	Color/Odor none	
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ
M-142	5/14/20 11:04	11:04:00	26.7		7.61		3.960		7.13		319.1		128.0		300	38.00	900	None/None
M-142	5/14/20 11:07	11:07:00	26.5	-1%	7.54	0.1	3.915	-1%	7.01	-2%	317.0	2	105.6	-18%	300	38.00	1800	None/None
M-142	5/14/20 11:10	11:10:00	26.5	0%	7.53	0.0	3.915	0%	6.97	-1%	309.6	7	74.7	-29%	300	38.00	2700	None/None
M-142	5/14/20 11:13	11:13:00	26.3	-1%	7.53	0.0	3.897	0%	6.95	0%	294.9	15	71.1	-5%	300	38.00	3600	None/None
M-142	5/14/20 11:16	11:16:00	26.3	0%	7.53	0.0	3.899	0%	6.91	-1%	286.6	8	51.9	-27%	300	38.00	4500	None/None
M-142	5/14/20 11:19	11:19:00	26.3	0%	7.52	0.0	3.890	0%	6.97	1%	277.8	9	24.8	-52%	300	38.00	5400	None/None
M-142	5/14/20 11:22	11:22:00	26.4	0%	7.50	0.0	3.904	0%	6.95	0%	266.4	11	22.2	-10%	300	38.00	6300	None/None
M-142	5/14/20 11:25	11:25:00	26.3	0%	7.50	0.0	3.896	0%	6.91	-1%	250.2	16	17.6	-21%	300	38.00	7200	None/None
M-142	5/14/20 11:28	11:28:00	26.3	0%	7.51	0.0	3.891	0%	6.90	0%	252.7	3	15.9	-10%	300	38.00	8100	None/None
M-142	5/14/20 11:31	11:31:00	26.2	0%	7.51	0.0	3.883	0%	6.90	0%	244.3	8	13.6	-14%	300	38.00	9000	None/None
M-142	5/14/20 11:34	11:34:00	26.2	0%	7.57	0.1	0.249	-94%	7.55	9%	261.3	17	117.1	761%	300	38.00	9900	None/None
M-142	5/14/20 11:37	11:37:00	26.2	0%	7.50	0.1	3.887	1461%	6.90	-9%	256.4	5	10.0	-91%	300	38.00	10800	None/None
M-142	5/14/20 11:40	11:40:00	26.2	0%	7.50	0.0	3.883	0%	6.89	0%	251.3	5	8.8	-12%	300	38.00	11700	None/None
M-142	5/14/20 11:43	11:43:00	26.2	0%	7.51	0.0	3.882	0%	6.90	0%	246.4	5	7.1	-19%	300	38.00	12600	None/None
M-142	5/14/20 11:46	11:46:00	26.3	0%	7.51	0.0	3.888	0%	6.87	0%	245.7	1	7.3	3%	300	38.00	13500	None/None



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page ___ of ___
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: M-144
Field Sampler(s): Bchhu				
Transducer Removal Time: _____	Transducer Redeployment Time: _____	General Well Condition: good		
Depth to Water (ft): (38.33) 38.43	Screened Interval Top (ft): 35.1	Pump Intake Depth (ft): 41.8		
Well Depth (ft): (44.95) 45.00	Screened/Open Interval Bottom (ft): 45.1	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0835

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0837	29.5		7.89		0.004		7.54		154.1		13.4		60	38.45		clear/N
0840	26.7		7.45		5.253		7.25		132.0		16.1		60	38.45		clear/N
0843	26.2		7.36		5.430		7.36		140.0		12.1		60	38.50	0.48	clear/N
0846	26.2		7.38		5.455		7.38		143.8		11.3		120	38.53	0.84	clear/N
0849	26.1		7.39		5.446		6.27		147.3		12.7		150	38.57		clear/N
0852	26.1	} <1% }	7.39	} 0	5.439	} <1% }	6.22	} <1% }	149.9	} 5	9.8	} <10	150	38.59		clear/N
0855	26.1		7.39		5.440		6.21		152.7		9.5		150	38.62	clear/N	
0858	26.0		7.39		5.440		6.21		154.9		9.2		150	38.67	clear/N	
															3.1L	

Stop Purge Time: 0859	Sample Time: 0900	QA/QC Sample Time(s): _____
	Sample ID: M-144-20200515	QA/QC Sample ID(s): _____

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jessa Bunkers	Task No: H02	Date: 5/14/20	Well ID: M-145
Field Sampler(s): <u>Crockett</u>				
Transducer Removal Time: 1335	Transducer Redeployment Time: 1445	General Well Condition: <u>Vault full of water</u>		
Depth to Water (ft): <u>39.68</u> (<u>39.86</u>)	Screened Interval Top (ft): <u>44.6</u>	Pump Intake Depth (ft): <u>52</u>		
Well Depth (ft): <u>59.1</u> (<u>59.3</u>)	Screened/Open Interval Bottom (ft): <u>59.6</u>	Well Diameter (in): <u>2</u>		
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DH Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)	<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)			
Purge Start Time: 1346				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1350														39.06		
1353	31.3		7.17		4.035		3.64		-21.4		7.09		6.5	39.20		N/N
1356	32.0		6.97		3.993		1.35		-72.5		18.09		6.5	39.45	0.65	N/N
1359	31.2		6.95		3.975		0.83		-80.8		16.85		6.5	39.68	0.85	N/N
1402	31.0		6.94		3.973		0.65		-84.1		17.94		6.5	39.81	1.04	N/N
1405	30.8		6.93		3.973		0.53		-86.9		2.77		6.5	39.81	1.24	N/N
1408	30.7		6.93		3.970		0.47		-88.8		11.01		6.5	39.91	1.43	N/N
1411	30.5		6.94		3.973		0.44		-90.2		8.77		6.5	39.91	1.63	N/N
1414	30.5	0.7%	6.94	0.01	3.972	0.1%	0.40	<0.5	-92.7	3.9	8.73	26.1%	6.5	39.98	1.82	N/N

Stop Purge Time: 1415	Sample Time: 1420	QA/QC Sample Time(s): N/A				
Sample ID: M-145-20200514	QA/QC Sample ID(s): N/A					
Observations/Comments: <u>Vault was full of water to above J-plug. Bailed until water level was below TIC before removing plug. Purge ended. Purge ended early due to excessive drawdown.</u>						
Bottle Set Summary: <u>purged 91 system volume (system vol. = 0.63L)</u>						
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/14/20	Well ID: M-147
Field Sampler(s): <i>B. Ch. Heun</i>				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: <i>good</i>		
Depth to Water (ft): (35.5) 32.90	Screened Interval Top (ft): 27.5	Pump Intake Depth (ft): 35.6		
Well Depth (ft): 136.05 38.30	Screened/Open Interval Bottom (ft): 42.5	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0716				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0718	24.4		7.25		5.210		5.19		197.0		9.4		300	33.0		clear/N
0721	24.9		7.28		5.276		4.81		197.3		7.8		300	33.0		clear/N
0724	25.1	<1%	7.29	0.01	5.312	<1%	4.85	0.1	197.7	0.7	7.7	<10	300	33.0		clear/N
0727	25.1		7.29		5.315		4.81		198.0		7.5	110	300	33.0		clear/N
															3.3L	

Stop Purge Time: 0728	Sample Time: 0730	QA/QC Sample Time(s): N/A
Sample ID: M-147-20200514		QA/QC Sample ID(s): N/A

Observations/Comments

Confirmed DTW 2x

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
	125 mL w/EDA	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/14/20 Well ID: M-148A

Field Sampler(s): B. Ahner

Transducer Removal Time: N/A Transducer Redeployment Time: N/A General Well Condition: good

Depth to Water (ft): (46.75) 44.53 Screened Interval Top (ft): 42 Pump Intake Depth (ft): 48.3

Well Depth (ft): (52.65) 52.80 Screened/Open Interval Bottom (ft): 52 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0815

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0817	25.6		7.21		6.076		2.42		110.5		6.1		270	44.58		clear/N
0820	25.9		7.09		6.169		2.30		126.4		5.0		180	44.89		clear/N
0823	25.9		7.10		6.204		2.47		134.0		4.7		90	44.95		clear/N
0826	25.8		7.11		6.210		2.42		141.2		4.9		90	44.95		clear/N
0829	25.8	0.02	7.10	0.02	6.104	2%	2.43	2%	147.0	8.4	5.4	<10	90	44.95		clear/N
0832	25.8		7.09		6.187		2.47		149.6	mv	5.4	ntu	90	44.95		clear/N
															2.2L	

Stop Purge Time: 0833 Sample Time: 0835 QA/QC Sample Time(s): 0630

Sample ID: M-148A-20200 1 QA/QC Sample ID(s): M-148A-20200 14-TB 19

Observations/Comments

Double checked DTW 2X

Bottle Set Summary

4	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/14/20	Well ID: M-149
Field Sampler(s): B Chhem				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): (44.18) 41.22	Screened Interval Top (ft): 99.8	Pump Intake Depth (ft): dedicated pump, 108'		
Well Depth (ft): (120) 120	Screened/Open Interval Bottom (ft): 119.8	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N) dedicated pump		
Purge Start Time: 0946				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0948	20.2		7.74		0.064		7.55		155.0		16.5		200	41.30		clear/N
0951	25.6		7.91		2.784		8.37		124.2		6.0		60	41.53		clear/N
0954	23.9		7.60		2.387		8.04		138.2		7.7		60	41.78		clear/N
0957	23.3		7.53		2.301		7.78		143.4		9.5		60	41.89		clear/N
1000	22.4		7.37		2.296		7.12		152.7		6.9		60	41.93		clear/N
1003	22.4		7.28		2.345		7.02		162.2		6.3		60	42.00		clear/N
															1.3L	

Stop Purge Time: 1004	Sample Time: 1005	QA/QC Sample Time(s): N/A
	Sample ID: M-149-20200514	QA/QC Sample ID(s): N/A

Observational/Comments

Double checked DTW 2X, unable to maintain <math>2.03'</math> drawdown, purge 1 system volume

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <math><0.5</math> mg/L for DO; ± 10% or <math><10</math> NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/19/20 Well ID: M-150

Field Sampler(s): J. Masters

Transducer Removal Time: n/a Transducer Redeployment Time: n/a General Well Condition: Good

Depth to Water (ft): 21.85 Screened Interval Top (ft): 127.7 Pump Intake Depth (ft): 137.5

Well Depth (ft): 147.36 Screened/Open Interval Bottom (ft): 147.7 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0722

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0725	24.8		7.62		0.864		4.20		158.1		1.63		150	23.86	0.45	clear/none
0728	25.1		7.12		0.857		3.65		93.4		2.60		150	25.11	0.9	clear/none
0731	25.1		7.40		0.861		3.67		89.3		10.26		150	25.89	1.35	clear/none
0734	25.1		7.67		0.865		3.67		99.4		5.24		150	26.93	1.8	clear/none
0737	25.1		7.70		0.865		3.67		102.5		3.71		150	27.76	2.25	clear/none
0740	25.1	0	7.75	0.08	0.865	0	3.68	0.2%	108.2	8.8	3.55	<10	150	28.61	2.7	clear/none

Stop Purge Time: 0742 Sample Time: 0745 QA/QC Sample Time(s): n/a

Sample ID: M-150-20200515 QA/QC Sample ID(s): n/a

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/11/20	Well ID: M-151
Field Sampler(s): <i>B. L. H. H. H.</i>				
Transducer Removal Time: <i>NA</i>	Transducer Redeployment Time: <i>NA</i>	General Well Condition: <i>good, dedicated pump</i>		
Depth to Water (ft): <i>(17.51) 17.33</i>	Screened Interval Top (ft): <i>127.7</i>	Pump Intake Depth (ft): <i>136.4</i>		
Well Depth (ft): <i>(147.33) 145.0</i>	Screened/Open Interval Bottom (ft): <i>147.7</i>	Well Diameter (in): <i>2</i>		
Pump/Tubing Type: <i>QED Bladder Pump & TLPEADPE</i>	GW Disposal: <i>GW-11</i>	Equipment Decon. Method: <i>Alconox/OI Rinse SOP</i>		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N) <i>dedicated pump</i>		
Purge Start Time: <i>1250</i>				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1253	25.8		8.21		0.813		3.37		-20.9		6.1		300	17.33		clear/N
1256	24.6		7.39		0.794		2.61		-29.4		9.9		300			clear/N
1259	24.7		7.37		0.806		2.57		-26.4		9.5		300			clear/N
1302	24.7	<1%	7.74	0.03	0.808	<1%	2.57	CH ₂	-23.2	3.2	0.5	<10	300			clear/N
1305	24.8		7.75		0.809		2.58		-23.6		5.0		300		45 L	clear/N

Stop Purge Time: <i>1308</i>	Sample Time: <i>1310</i>	QA/QC Sample Time(s): <i>NA</i>
	Sample ID: <i>M-151-20200511</i>	QA/QC Sample ID(s): <i>NA</i>

Observations/Comments
No port to measure DWT during purging

Bottle Set Summary	1	2	3	4	5	6	7	8	
<i>2</i> 3x VDA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: M-153																		
Parameter Parameter Unit Stability			Temp. C ± 3%	pH SU ± 0.1		Conductivity mS/cm ± 3%		DO mg/L ± 10% or <0.5		ORP mV ± 10		Turbidity NTU ± 10% or <10		Purge Rate mL/min	Depth to Water ft	Cum. Vol. Purged mL	Color/Odor none	
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ
M-153	5/14/20 12:41	12:41:00	24.4		7.98		0.948		3.64		296.9		2.0		300	38.00	900	None/None
M-153	5/14/20 12:44	12:44:00	22.2	-9%	7.97	0.0	0.889	-6%	4.99	37%	302.0	5	3.6	80%	300	38.00	1800	None/None
M-153	5/14/20 12:47	12:47:00	23.6	6%	7.84	0.1	0.603	-32%	6.57	32%	306.7	5	5.1	42%	300	38.00	2700	None/None
M-153	5/14/20 12:50	12:50:00	23.1	-2%	7.79	0.0	0.902	50%	4.20	-36%	307.8	1	2.6	-49%	300	38.00	3600	None/None
M-153	5/14/20 12:53	12:53:00	23.1	0%	7.79	0.0	0.902	0%	3.78	-10%	309.4	2	0.8	-69%	300	38.00	4500	None/None
M-153	5/14/20 12:56	12:56:00	23.9	3%	7.79	0.0	0.912	1%	4.55	20%	311.8	2	1.6	100%	300	38.00	5400	None/None
M-153	5/14/20 12:59	12:59:00	24.0	0%	7.79	0.0	0.916	0%	3.69	-19%	311.7	0	0.6	-63%	300	38.00	6300	None/None
M-153	5/14/20 13:02	13:02:00	24.4	2%	7.79	0.0	0.926	1%	3.58	-3%	314.5	3	3.3	450%	300	38.00	7200	None/None
M-153	5/14/20 13:05	13:05:00	23.9	-2%	7.79	0.0	0.915	-1%	3.68	3%	311.7	3	0.6	-82%	300	38.00	8100	None/None



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/14/20 Well ID: m-154

Field Sampler(s): J. Masters

Transducer Removal Time: N/A Transducer Redeployment Time: N/A General Well Condition: Good

Depth to Water (ft): 10.21 Screened Interval Top (ft): 177.5 Pump Intake Depth (ft): 187.5

Well Depth (ft): 197.54 Screened/Open Interval Bottom (ft): 197.5 Well Diameter (in): 2

Pump/Tubing Type: QED Blackier Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconax/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1258

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1303	27.6		6.84		0.997		1.98		29.1		31.09		90	14.82	0.45	clear/none
1308	28.0		7.03		1.005		2.14		27.1		22.61		90	15.1	0.9	clear/none
1313	28.4		7.49		1.024		2.37		48.4		8.76		90	15.43	1.35	clear/none
1318	28.4		7.57		1.023		2.38		58.9		7.81		90	16.05	1.8	clear/none
1323	28.5		7.64		1.025		2.38		70.9		5.29		90	16.35	2.25	clear/none
1328	28.6		7.66		1.027		2.39		78.4		4.68		90	16.61	2.7	clear/none
1333	28.7		7.68		1.030		2.38		83.3		4.44		90	16.92	3.15	clear/none
1338	28.70	1%	7.68	0.2%	1.034	0.7%	2.38	0.4%	85.2	6.8mV	4.39	< 10 NTU	90	16.99	3.6L	clear/none

Stop Purge Time: 1339 Sample Time: 1340 QA/QC Sample Time(s): N/A

Sample ID: m-154-20200514 QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	500 mL Amber Glass w/H3PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/11/20 Well ID: M-155

Field Sampler(s): *B. Chhun*

Transducer Removal Time: *NR* Transducer Redeployment Time: *NA* General Well Condition: *good, sand covered pressure gage*

Depth to Water (ft): *(-2.31) -1.2 psi* Screened Interval Top (ft): *202.9* Pump Intake Depth (ft): *Depth of dedicated pump*

Well Depth (ft): *272.39* Screened/Open Interval Bottom (ft): *222.9* Well Diameter (in): *2*

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decom. Method: *Acetone/Oil Rinse SOP*

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: *1208*

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (vol/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1209	38.3		7.99		1.561		7.32		113.6		6.3		300	-15psi		clear/N
1212	24.6		7.93		0.882		0.81		102.4		12.6		300	-15psi		clear/N
1215	24.6		7.76		0.884		0.58		-159.0		104.8		300	-15psi		clear/N
1218	24.8		6.93		0.895		0.58		135.0		78.4		300	-15psi		clear/N
1221	24.9	<10%	6.93	0	0.897	<10%	0.60	4%	133.3	7.1	74.3	5%	300	-15psi		clear/N
1224	24.8		6.93		0.895		0.59		127.9		74.5		300	-15psi	4.8L	clear/N
Final reading @ 1235 = -15psi																

Stop Purge Time: *1225* Sample Time: *1227* QA/QC Sample Time(s): *NA 630*

Sample ID: *M-155-20200511* QA/QC Sample ID(s): *NA M-155-20200511-7B11*

Observations/Comments
DMV measured 1201-1206 = -1.2 psi (w/ change), not enough natural flow - connect compressor (unholter)

Bottle Set Summary

Count	Container	Volume	Material
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄
			500 mL w/H ₂ SO ₄
			500 mL poly w/HNO ₃
			500 mL poly w/HNO ₃
			250 mL Amber Glass w/H ₂ SO ₄
			250 mL Amber Glass w/H ₂ PO ₄
			250 mL Amber Glass w/H ₂ SO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HQZ	Date: 5-12-20	Well ID: M-159
Field Sampler(s): <u>Ron Phillip</u>				
Transducer Removal Time: <u>NA</u>	Transducer Redeployment Time: <u>NA</u>		General Well Condition: <u>Good</u>	
Depth to Water (ft): <u>31.85</u>	Screened Interval Top (ft): <u>65</u>		Pump Intake Depth (ft): <u>70</u>	
Well Depth (ft): <u>77.55</u>	Screened/Open Interval Bottom (ft): <u>75</u>		Well Diameter (in): <u>2</u>	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE		GW Disposal: GW-11		Equipment Dacon. Method: Alconox/DI Rinse SOP <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: <u>12:11</u>				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Comp. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1216	28.0		7.36		3.742		2.65		197		16.4		120	32.27		Clear/None
1220	28.1		7.47		3.454		1.38		190.8		10.5		120	32.45		
1224	28.3		7.50		3.962		1.05		186.6		8.9		100	32.42		
1228	28.4		7.52		3.966		1.00		183.7		7.1		100	32.42		
1232	28.5		7.05		3.967		0.97		181.6		7.5		100	32.42		
1237	28.4		7.53		3.990		0.90		178.3		6.5		100	32.42		
1242	28.4		7.54		3.997		0.88		176.6		6.1		100	32.42		
1246	28.3	<1%	7.54	<1%	4.006	<1%	0.86	5%	175.1	3.2 mV	6.0	All <10	100	32.42	3	

Stop Purge Time: <u>12:47</u>	Sample Time: <u>12:54</u>	QA/QC Sample Time(s): <u>NA</u>
	Sample ID: <u>M-159-20200512</u>	QA/QC Sample ID(s): <u>NA</u>
Observations/Comments: <u>Final pump settings: Refill 16 seconds, Discharge 4 seconds</u>		

Bottle Set Summary										
2x	3x VOA w/HCl	1	125 mL Plastic sterile		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: HD2	Date: 5-13-20	Well ID: M-160
Field Sample(s): Ror Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good, no lock		
Depth to Water (ft): 31.72	Screened Interval Top (ft): 40	Pump Intake Depth (ft): 45		
Well Depth (ft): 52.82	Screened/Open Interval Bottom (ft): 50	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconex/DI Rinse SOP ✓		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0828				

Time	Temp. (°C)		pH		Cond. (µS/cm)		ORP (mv)		DO (mg/L)	Turbidity (NTU)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Observations
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE					
0831	23.7		7.30		5.451		1.47		137.4				cloudy
0840	24.9		7.66		5.847		5.51		120.6		315		cloudy
0853	25.1		7.70		5.855		6.26		143.6		315		clearer
0857	25.1		7.62		5.402		4.50		153.4				
0902	25.2		7.54		5.967		2.47		160.3				clear
0907	25.1		7.51		5.995		2.47		162.8				
0911	25.2		7.50		6.004		2.19		164.4				
0915	25.2		7.49		6.009		2.09		165.7				
0918	25.2		7.48		6.009		1.99		166.7				
0922	25.3		7.48		6.011		1.89		167.4				
0925	25.2	<1%	7.48	NO change	6.013	<1%	1.86	7%	167.9	1.2	11.2	5.4%	31.92 15

Stop Purge Time: 0926	Sample Time: 0930	QA/QC Sample Time(s): NA
	Sample ID: M-160-20200513	QA/QC Sample ID(s): NA

Observations/Comments: Fixed leak in line 0835-0845. Pump settings. Refill 145, Discharge 6 s. pressure 40 psi

Bottle Set Summary

Count	3x VOA w/HCl	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2		1				
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	1500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-12-20	Well ID: M-161
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 23.25	Screened Interval Top (ft): 102.3	Pump Intake Depth (ft): 100.15		
Well Depth (ft): 110	Screened/Open Interval Bottom (ft): 112.3	Well Diameter (in): 2"		
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> Y		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> Y		Dedicated Pump <input checked="" type="checkbox"/> <u>wl meter only</u>
Purge Start Time: 1034				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1037	25.7		7.76		0.957		4.59		162.0		20.0		120	26.21		
1042	26.4		7.85		0.940		4.48		174.1		16.7		120	26.37		
1047	26.2		7.96		0.937		4.48		179.1		12.3		120	26.50	27.50	
1052	26.3		8.00		0.936		4.48		183.5		4.4		52	27.86		
1056	26.7		8.00		0.937		4.60		185.9		8.4		52	28.07		
1100	27.0		8.00		0.938		4.65		187.5		7.9		52	28.18		
1104	27.2	2%	8.00	NO CHANGE	0.939	<1%	4.64	1%	184.2	3.7 w-V	7.9	All <10 NTU	52	28.38	4	

Stop Purge Time: 1105	Sample Time: 11:12	QA/QC Sample Time(s): NA
Sample ID: M-161-20200512	QA/QC Sample ID(s): NA	
Observations/Comments: Initial pump setting was 11 R + 9 d, changed to 16 R + 7 D at 1035 Changed to 18 + 2 @ 1049		

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jessa Bunkers	Task No: H02	Date: 5/12/20	Well ID: M-161D
Field Sampler(s): J. Masters				
Transducer Removal Time: n/a	Transducer Redeployment Time: n/a	General Well Condition: Good		
Depth to Water (ft): 15.28	Screened Interval Top (ft): 132.6	Pump Intake Depth (ft): 137.6		
Well Depth (ft): 146.5	Screened/Open Interval Bottom (ft): 142.6	Well Diameter (in): 4		
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1110				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1115	27.9		7.78		0.997		3.42		89.2		2.81		100	15.56	.500	Clear/none
1120	28.6		7.78		0.944		2.41		86.4		2.61		100	15.69	1.0	Clear/none
1125	28.5		7.78		0.947		2.38		86.3		2.43		100	15.69	1.5	Clear/none
1130	28.7		7.77		0.950		2.42		87.6		2.41		100	15.77	2.0	Clear/none
1135	29.7	0.19%	7.76	0.3%	0.950	0.5%	2.45	2.8%	89.3	3mV	2.29	<10	100	15.83	2.5	Clear/none

Stop Purge Time: 1135	Sample Time: 1140	QA/QC Sample Time(s): 1230
	Sample ID: M-161D-20200512	QA/QC Sample ID(s): M-161D-20200512-FB13

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	7	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-15-20	Well ID: M-162
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 21.57	Screened Interval Top (ft): 102-3 101.9	Pump Intake Depth (ft): Dedicated pump, 107		
Well Depth (ft): 112	Screened/Open Interval Bottom (ft): 112-3 111.9	Well Diameter (in): 2"		
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP ✓ WL Meter		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N) Dedicated pump		
Purge Start Time: 0749. First water @ 0753				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0758	24.9		7.45		1.845		2.96		159.2		9.2			23.12		Clear/NO
0803	25.1		7.78		1.397		2.51		161.4		7.9		80	23.25		↓
0808	25.0		7.89		1.361		2.61		165.4		11.2		40	23.27		
0812	24.9		7.91		1.352		2.58		169.5		8.7		40	23.15		
0816	24.9		7.91		1.349		2.65		173.4		7.2		40	23.19		
0820	24.8		7.91		1.349		2.65		176.1		6.5		40	23.12		
0825	24.4	<10%	7.91	No change	1.347	<10%	2.60	2%	178.4	5mV	6.3	All <10 NTU	40	23.05	3	

Stop Purge Time: 0826	Sample Time: 0830	QA/QC Sample Time(s): 0830
	Sample ID: M-162-20200515	QA/QC Sample ID(s): M-162-20200515 - FD16

Observations/Comments Last year DTW 23.1, TD 112, Purge rate 155. Reduced flow rate at 0802 to try and stabilize water level. Reduced again 0805.

Bottle Set Summary

4x	3x VOA w/HCl	2	125 mL Plastic sterile	500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄		2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

FD-16



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/12/20 Well ID: M-162D

Field Sampler(s): J Bunkers

Transducer Removal Time: 1158 Transducer Redeployment Time: 1307 / 1300 General Well Condition: Good

Depth to Water (ft): 9.26 Screened Interval Top (ft): 132.3 Pump Intake Depth (ft): 137.15

Well Depth (ft): 147 Screened/Open Interval Bottom (ft): 142 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decor. Method: Alconox/DI Rinse SOP

 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1215

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1220	32.4		10.50		0.877		4.20		112.9		4.90		70	9.10		clear/none
1223	31.7		11.94		0.873		3.74		119.5		5.01		"	9.20		"
1226	31.6	<1%	11.98	0.04	0.871	<1%	3.70	5.6%	119.7	2.2	5.00	<10	"	9.25		"
1229	31.6		11.94		0.870		3.55		120.7		5.13	NTU	"	"	1.5	"

Stop Purge Time: 1230 Sample Time: 1225240 QA/QC Sample Time(s): -

Sample ID: M-162D-20200512 QA/QC Sample ID(s): -

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/11/20	Well ID: M-163
Field Sampler(s): A. Crockett				
Transducer Removal Time: 0745	Transducer Redeployment Time: 1130	General Well Condition: GOOD		
Depth to Water (ft): 26.10 (27.79)	Screened Interval Top (ft): 82	Pump Intake Depth (ft): Dedicated Pump 13'		
Well Depth (ft): 92.45 (92.32)	Screened/Open Interval Bottom (ft): 92	Well Diameter (in): 2		
Pump/Tubing Type: CED Bladder Pump & TLPELDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/CI Rinse SOP		
Dedicated Tubing Present? (Y/N) DP		New Dedicated Tubing Placed? (Y/N) N		
Purge Start Time: 1027				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1032													36	26.33	1.08	clear/no
1034	26.0												36	28.02	1.80	↓
1037	26.2		8.08		0.722		4.70		109.7		19.41		240	32.21	2.52	
1040	26.3		8.07		0.722		4.66		114.6		12.58		240	33.20	3.24	
1043	27.3	4.2%	8.07	0.01	0.726	0.55%	4.69	0.85%	119.7	10.1%	10.98	76.8%	240	33.75	3.96	

Stop Purge Time: 1045	Sample Time: 1055	QA/QC Sample Time(s): N/A
	Sample ID: M-163-28208511	QA/QC Sample ID(s): N/A

Observations/Comments: Unable to stabilize drawdown - purged > 1 system volume (0.93 L)

Bottle Set Summary											
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/15/20 Well ID: M-164

Field Sampler(s): *A. Morgan*

Transducer Removal Time: *NA* Transducer Redeployment Time: *NA* General Well Condition: *good*

Depth to Water (ft): *33.29* Screened Interval Top (ft): *62.2* Pump Intake Depth (ft): *64.43 dedicated pump*

Well Depth (ft): *72.48 (historical)* Screened/Open Interval Bottom (ft): *72.2* Well Diameter (in): *2*

Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: *1147*

Time	Temp. (°C)		pH (pH Units)		Conductivity (µm/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1150	-		-		-		-		-		-		240	34.10	0.72	<i>light green</i>
<i>Stopped pump @ 1150 to allow recharge. Reverse purge @ 1230. DTW: 33.41</i>																
1230	-		-		-		-		-		-		50	33.47	0.87	" "
1238	10.8		7.08		6.082		5.31		139.2		2.0		50	33.63	1.12	" "
1243	10.7		7.10		5.983		5.24		150.4		3.1		50	33.82	1.37	" "
1248	10.8		7.18		5.492		4.88		161.9		2.2		50	34.02	1.62	" "

Stop Purge Time: *1249* Sample Time: *1250* QA/QC Sample Time(s): *NA*

Sample ID: QA/QC Sample ID(s): *NA*

Observations/Comments: *dedicated pump. top of pump @ 64.43'. unable to stabilize drawdown. 1 system volume (estimated 1.44 L) purged prior to sampling.*

Bottle Set Summary

<i>2</i>	3x VOA w/HCl	<i>1</i>	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
<i>1</i>	125 mL w/EDA	<i>1</i>	250 mL Plastic		250 mL w/H ₂ SO ₄	<i>1</i>	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₃ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/12/20	Well ID: M-165
Field Sampler(s): B. Chuan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): (22-36) 21.70	Screened Interval Top (ft): 112	Pump Intake Depth (ft): dedicated pump		
Well Depth (ft): 122-58	Screened/Open Interval Bottom (ft): 122	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? <input checked="" type="checkbox"/> (Y/N)		New Dedicated Tubing Placed? <input checked="" type="checkbox"/> (Y/N) dedicated pump		
Purge Start Time: 1155				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1158	25.7		8.12		0.861		3.03		93.4		3.2		260			clear/lt
1201	25.7		7.77		0.818		1.10		99.9		7.2		260			clear/lt
1204	25.7		7.83		0.817		0.97		100.2		6.0		260			clear/lt
1207	25.6		7.92		0.814		0.83		99.7		4.2		260			clear/lt
1210	25.7		7.94	0.02	0.813	0.02	0.80	5.6	99.5	0.4	3.3	110	260			clear/lt
1213	25.7		7.94		0.815		0.79		99.3		3.3		260			clear/lt
															4.7L	

Stop Purge Time: 1215	Sample Time: 1216	QA/QC Sample Time(s):
Sample ID: M-165-20200512	QA/QC Sample ID(s):	
Observations/Comments Unable to measure DTW during purge due to sample port		
Bottle Set Summary		
2 3x VOA w/HCl	1 125 mL Plastic	500 mL Plastic
1 125 mL w/EDA	1 250 mL Plastic	1 250 mL w/H ₂ SO ₄
		500 mL w/H ₂ SO ₄
		500 mL poly w/HNO ₃
		250 mL Amber Glass w/H ₂ SO ₄
		500 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkars Task No: H02 Date: 5/12/20 Well ID: M-181

Field Sampler(s): BCH/LL/17

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): (28.46) 27.39 Screened Interval Top (ft): 107.1-107.1 Pump Intake Depth (ft): 112

Well Depth (ft): (117.47) 117.49 Screened/Open Interval Bottom (ft): 117.1 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (N) New Dedicated Tubing Placed? (N) dedicated pump

Purge Start Time: 1036

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1040	25.8		8.08		1.765		5.29		106.6		5.3		240			clear/N
1043	24.9		8.14		0.832		3.19		103.4		5.4		240			clear/N
1046	24.9	} 0	8.14	} 0.04	0.801	} <1%	3.09	} 2%	107.7	} 6	6.6	} <10	240			clear/N
1049	24.9		8.17		0.800		3.05		111.6		5.7		240			clear/N
1052	24.9		8.8		0.799		3.04		113.7		5.2		240			clear/N
															5.841	

Stop Purge Time: 1053 Sample Time: 1055 QA/QC Sample Time(s): -

Sample ID: M-181-20700512 QA/QC Sample ID(s): -

Observations/Comments: unable to measure DTW during purge due to sample purf

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₃ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Buckers	Task No: H02	Date: 5/12/20	Well ID: M-182
Field Sampler(s): B. Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): (33.85) 32.65	Screened Interval Top (ft): 82.1	Pump Intake Depth (ft): dedicated pump 87		
Well Depth (ft): 92.7	Screened/Open Interval Bottom (ft): 92.1	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N) ded. pump		
Purge Start Time: 11:32 11:37				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
11:19	25.1		7.36		14.316		1.74		145.3		3.1		200	32.86		clear/N
11:22	25.6		7.42		14.166		1.71		146.5		3.4		200	32.86		clear/N
11:25	25.5		7.41		14.063		1.83		147.97		3.1		200	32.86		clear/N
11:28	25.5	<1%	7.41	0.01	14.045	<1%	1.82	1%	150.0	2.9	3.1	<10	200	32.86		clear/N
11:31	25.6		7.40		14.057		1.84		150.6		3.1		200	32.86		clear/N
															2.8L	

Stop Purge Time: 11:33	Sample Time: 11:35	QA/QC Sample Time(s):
	Sample ID: M-182-2020 05/2	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/14/20	Well ID: M-186
Field Sampler(s): Bunker				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: good		
Depth to Water (ft): (45.51) 43.80	Screened Interval Top (ft): 107.4	Pump Intake Depth (ft): dedicated pump		
Well Depth (ft): (117.62) 117.62	Screened/Open Interval Bottom (ft): 117.4	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N) dedicated pump		
Purge Start Time: 0901				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0903	25.9		7.13		9.507		4.56		154.9		3.7		210	43.85		clear/A
0906	25.5		7.27		11.643		5.58		156.7		2.6		210	43.85		clear/A
0909	26.0		7.93		12.097		4.00		156.9		2.7		210	43.85		clear/A
0912	26.1		7.36		12.714		3.88		164.0		3.2		210	43.92		clear/A
0915	26.2		7.27		12.967		3.837		167.57		4.9		210	43.93		clear/A
0918	26.2	0.06	7.29	0.04	12.864	0.24	3.76	3%	169.6	2.6	5.3	2.10 NTU	210	43.93		clear/A
0921	26.3		7.31		12.977		3.77		168.9	1.1	9.3	2.10 NTU	210	43.93	4.2L	clear/A Bc yellow

Stop Purge Time: 0922	Sample Time: 0923	QA/QC Sample Time(s): N/A
	Sample ID: M-186-20200514	QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page ___ of ___
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: M-186D
Field Sampler(s): BChhm				
Transducer Removal Time: —	Transducer Redeployment Time: —	General Well Condition: good		
Depth to Water (ft): (31.3) 30.2	Screened Interval Top (ft): 155.8	Pump Intake Depth (ft): 165.8		
Well Depth (ft): (180) 180	Screened/Open Interval Bottom (ft): 175.8	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
N Dedicated Tubing Present? (Y/N)		Y New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0726				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0727	26.1		7.94		0.906		3.80		70.5		11.0		360	29.75		clear/N
0730	26.1		7.94		0.905		3.55		87.7		31.9		240	29.85		clear/N
0733	26.1		7.96		0.905		3.34		102.9		38.5		120	30.10		clear/N
0736	26.0		7.97		0.904		3.35		111.7		39.7		120	30.22		clear/N
															1-8L	-

Stop Purge Time: 0737	Sample Time: 0740	QA/QC Sample Time(s):
	Sample ID: M-186D-20200515	QA/QC Sample ID(s):

Observations/Comments
Unable to maintain stable drawdown < 0.3 ft, purge 1 system volume

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: M-189																		
Parameter			Temp.		pH		Conductivity		DO		ORP		Turbidity		Purge Rate	Depth to Water	Cum. Vol. Purged	Color/Odor
Parameter Unit			C		SU		mS/cm		mg/L		mV		NTU		mL/min	ft	mL	none
Stability			± 3%		± 0.1		± 3%		± 10% or <0.5		± 10		± 10% or <10					
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ
M-189	5/14/20 13:41	13:41:00	29.6		8.15		0.002		7.20		329.2		4.5		300	38.00	900	None/None
M-189	5/14/20 13:42	13:42:00	26.3	-11%	7.68	0.5	3.752	187500%	6.77	-6%	340.2	11	256.4	5598%	300	38.00	1800	None/None
M-189	5/14/20 13:45	13:45:00	25.9	-2%	7.56	0.1	3.800	1%	6.56	-3%	338.8	1	242.2	-6%	300	38.00	2700	None/None
M-189	5/14/20 13:48	13:48:00	25.8	0%	7.57	0.0	3.783	0%	6.50	-1%	335.1	4	187.2	-23%	300	38.00	3600	None/None
M-189	5/14/20 13:51	13:51:00	25.7	0%	7.59	0.0	3.761	-1%	6.34	-2%	330.0	5	128.7	-31%	300	38.00	4500	None/None
M-189	5/14/20 13:54	13:54:00	25.8	0%	7.57	0.0	3.783	1%	6.01	-5%	326.3	4	46.2	-64%	300	38.00	5400	None/None
M-189	5/14/20 13:57	13:57:00	26.0	1%	7.57	0.0	3.795	0%	5.98	0%	327.1	1	39.8	-14%	300	38.00	6300	None/None
M-189	5/14/20 14:00	14:00:00	26.0	0%	7.57	0.0	3.796	0%	5.98	0%	327.2	0	39.9	0%	300	38.00	7200	None/None
M-189	5/14/20 14:03	14:03:00	26.0	0%	7.57	0.0	3.794	0%	5.99	0%	327.0	0	39.9	0%	300	38.00	8100	None/None



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/14/20	Well ID: M-190												
Field Sampler(s): <i>Buchman</i>																
Transducer Removal Time: —	Transducer Redeployment Time: —		General Well Condition: <i>good, removed standing water in vault, plug in good condition</i>													
Depth to Water (ft): <i>(28.78) 36.10</i>	Screened Interval Top (ft): <i>34.6</i>		Pump Intake Depth (ft): <i>42.8</i>													
Well Depth (ft): <i>(50.5) 50.40</i>	Screened/Open Interval Bottom (ft): <i>49.6</i>		Well Diameter (in): <i>2</i>													
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP													
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)														
Purge Start Time: <i>1222</i>																
Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1223	28.0		7.63		3.576		7.00		107.9		39.2		300	35.90		clear/N
1226	27.9		7.55		3.546		6.83		115.4		53.3		200	36.00		clear/N
1229	27.7		7.52		3.519		6.78		126.9		38.8		200	36.00		clear/N
1232	27.6		7.52		3.507		6.75		136.5		28.1		200	36.00		clear/N
1235	27.4	} 0	7.51	} 0	3.490	} <1%	7.06	} <1%	144.5	} 6.3	26.3	} 9%	200	36.00		clear/N
1238	27.4		7.51		3.491		7.10		142.1		26.1		200	36.00	clear/N	
1241	27.4		7.51		3.488		7.10		149.8		27.8		200	36.00	clear/N	
															3.9L	
Stop Purge Time: <i>1242</i>					Sample Time: <i>1245</i>					QA/QC Sample Time(s): —						
					Sample ID: <i>M-190-20200514</i>					QA/QC Sample ID(s): —						
Observations/Comments																
<i>Double checked DTW 2X</i>																
Bottle Set Summary																
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄					
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass					
*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity																



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page of
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/15/20 Well ID: M-191

Field Sampler(s): B. KhanTransducer Removal Time: Transducer Redeployment Time: General Well Condition: goodDepth to Water (ft): (38.75) 36.30 Screened Interval Top (ft): 34.5 Pump Intake Depth (ft): 43.9Well Depth (ft): (50.27) 50.0 Screened/Open Interval Bottom (ft): 49.5 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)Purge Start Time: 0948

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0950	27.8		7.38		11.271		3.91		118.1		52.5		90	38.50	0.36	Yellow/N
0953	27.1		7.35		11.191		3.27		123.0		47.6		90	38.60		Yellow/N
0956	27.4		7.34		11.256		3.16		128.1		45.8		90	38.60		Yellow/N
0959	27.4		7.34		11.311		3.00		134.1		32.6		90	38.60		Yellow/N
1002	27.4		7.34		11.399		2.86		137.9		26.2		90	38.62		Yellow/N
1005	27.4		7.34		11.435		2.83		139.5		30.2		90	38.63		Yellow/N
1008	27.4		7.34		11.498		2.75		141.6		23.8		90	38.63		Yellow/N
1011	27.4		7.34		11.537		2.70		142.7		24.2		90	38.63		Yellow/N
1014	27.4		7.34		11.545		2.69		142.9		22.4		90	38.64		Yellow/N
															2.5L	

Stop Purge Time: 1015 Sample Time: 1016 QA/QC Sample Time(s): Sample ID: M-191-20200515 QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page of
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/15/20 Well ID: M-192

Field Sampler(s): Behrman

Transducer Removal Time: —

Transducer Redeployment Time: —

General Well Condition: good

Depth to Water (ft): (58.33) 27.64

Screened Interval Top (ft): 34.6

Pump Intake Depth (ft): 43.6

Well Depth (ft): (50.02) 50.0

Screened/Open Interval Bottom (ft): 49.6

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N)

New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1048

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1050	29.7		7.90		4.212		6.83		105.1		28.5		200	37.80	0.4	clear/N
1053	29.8		7.58		3.608		6.12		120.3		5.7		100	37.94		clear/N
1056	28.2		7.55		3.602		5.98		128.6		5.1		100	37.96		clear/N
1059	28.5		7.54		3.609		5.89		134.6		7.0		100	37.96		clear/N
1102	28.0		7.53		3.590		5.78		143.3		7.4		100	37.96		clear/N
1105	28.1		7.52		3.588		5.75		146.8		9.8		100	37.96		clear/N
1108	28.1	<10	7.52	0	3.591	<10	5.75	0	148.4	4.1	9.2	<10	100	37.96		clear/N
1111	28.2		7.52		3.603		5.75		150.9		8.5		100	37.96	2.5L	clear/N

Stop Purge Time: 1112

Sample Time: 1115

QA/QC Sample Time(s): —

Sample ID: M-192-20200516

QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: M-193																	
Parameter Parameter Unit Stability			Temp. C ± 3%	pH SU ± 0.1		Conductivity mS/cm ± 3%		DO mg/L ± 10% or <0.5		ORP mV ± 10		Turbidity NTU ± 10% or <10		Purge Rate mL/min	Depth to Water ft	Cum. Vol. Purged mL	Color/Odor none
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ	
M-193	5/14/20 9:44	09:44:00	26.8		7.45		3.945		6.42		325.8		94.1	270	39.00	810	None/None
M-193	5/14/20 9:47	09:47:00	26.6	-1%	7.36	0.1	3.980	1%	5.96	-7%	315.1	11	55.9	270	39.00	1620	None/None
M-193	5/14/20 9:50	09:50:00	26.7	0%	7.36	0.0	3.938	-1%	5.91	-1%	309.9	5	44.0	270	39.00	2430	None/None
M-193	5/14/20 9:53	09:53:00	26.7	0%	7.38	0.0	3.892	-1%	5.86	-1%	306.5	3	30.6	270	39.00	3240	None/None
M-193	5/14/20 9:56	09:56:00	26.8	0%	7.39	0.0	3.869	-1%	5.83	-1%	300.2	6	23.3	270	39.00	4050	None/None
M-193	5/14/20 9:59	09:59:00	26.8	0%	7.40	0.0	3.850	0%	5.81	0%	299.8	0	19.1	270	39.00	4860	None/None
M-193	5/14/20 10:02	10:02:00	26.8	0%	7.41	0.0	3.841	0%	5.78	-1%	297.1	3	15.3	270	39.00	5670	None/None
M-193	5/14/20 10:05	10:05:00	26.8	0%	7.42	0.0	3.833	0%	5.77	0%	294.8	2	12.1	270	39.00	6480	None/None
M-193	5/14/20 10:08	10:08:00	27.0	1%	7.43	0.0	3.836	0%	5.76	0%	293.6	1	10.8	270	39.00	7290	None/None
M-193	5/14/20 10:11	10:11:00	26.9	0%	7.43	0.0	3.825	0%	5.75	0%	291.1	3	10.4	270	39.00	8100	None/None
M-193	5/14/20 10:14	10:14:00	27.0	0%	7.43	0.0	3.825	0%	5.73	0%	289.7	1	8.5	270	39.00	8910	None/None
M-193	5/14/20 10:17	10:17:00	26.9	0%	7.44	0.0	3.814	0%	5.73	0%	285.5	4	7.2	270	39.00	9720	None/None
M-193	5/14/20 10:20	10:20:00	26.9	0%	7.44	0.0	3.811	0%	5.72	0%	284.4	1	6.6	270	39.00	10530	None/None



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/12/20	Well ID: M-204
Field Sampler(s): Dylan Davis				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 30.05	Screened Interval Top (ft): 100	Pump Intake Depth (ft): 105'		
Well Depth (ft): 110.45	Screened/Open Interval Bottom (ft): 110	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconau/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0717

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (m/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0731	24.4		8.04		0.993		5.27		209.7		13.1		20	29.55		clear
0734	24.6		8.05		0.984		4.94		206.2		10.9		20	29.63		
0737	24.6		7.93		0.988		4.42		203.9		7.4		20	29.69		
0740	24.9	2.0%	7.92	0.02	0.973	1.5%	4.45	1.8%	207.4	4.6%	5.5	<10	20	29.80		
0743	25.1		7.91		0.974		4.34		199.3		5.3	NTU	20	29.80	0.52L	

Stop Purge Time: 0744

Sample Time: 0745

QA/QC Sample Time(s):

Sample ID: A - 202005

QA/QC Sample ID(s):

Observations/Comments: 200 ps with 1.6 ad + 10 min to get through flow "Very slow recharge sampled" <20mL in n.

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-12-20	Well ID: M-205
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: 0/4-bolt holes wont accept	
Depth to Water (ft): 31.92	Screened Interval Top (ft): 30		Pump Intake Depth (ft): 41 bolts. well is in a	
Well Depth (ft): 50.55	Screened/Open Interval Bottom (ft): 50		Well Diameter (in): 4 secure area	
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposit: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP ✓	
Dedicated Tubing Present? (Y/N) N		New Dedicated Tubing Placed? (Y/N) Y		
Purge Start Time: 0710				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0718	24.1		6.77		15.776		1.26		226.5		20.7		110	32.10		
0725	24.0		6.78		15.789		0.72		212.4		14.7		110	32.03		
0730	24.1		6.77		15.776		0.60		206.5		13.7		145	32.07		
0734	24.1		6.77		15.790		0.53		204.1		14.9		120	32.09		
0738	24.1		6.77		15.780		0.52		201.3		11.5		120	32.08		
0745	24.1		6.76		15.780		0.48		199.0		11.9		120	32.08		
0748	24.1		6.76		15.778		0.46		197.7		10.7		120	32.08		
0751	24.1		6.76		15.776		0.45		196.6		10.1		120	32.08		
0754	24.1		6.76		15.774		0.43		195.7		9.5		120	32.09		
0757	24.2		6.76		15.774		0.41		194.7		9.1		120	32.09		
0801	24.2	<1%	6.77	<1%	15.773	<1%	0.40	All <0.5 mg/l	194.0	1.7 mV	9.4	All <10	120	32.08	5	

Stop Purge Time: 0802	Sample Time: 0805	QA/QC Sample Time(s): 0835
	Sample ID: M-205-20200512	QA/QC Sample ID(s): M-205-20200512-E310
Observations/Comments Pump settings: 16 s Refill, 4 s discharge, Pressure 35 psi, then 40 psi, then 37 psi		

Bottle Set Summary							
24	3x VOA w/HCl	2	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	4	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/11/20	Well ID: M-206
Field Sampler(s): J. Masters				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 31.69	Screened Interval Top (ft): 30	Pump Intake Depth (ft): 40.8		
Well Depth (ft): 51	Screened/Open Interval Bottom (ft): 50	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0825				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0830	25.1		7.29		6.275		3.29		131.2		3.31		150	31.81	0.75	clear/none
0835	25.2		7.28		6.289		3.23		129.0		2.36		150	31.81	1.5	clear/none
0840	25.3		7.28		6.313		3.16		127.3		1.97		150	31.81	2.25	clear/none
0845	25.5	0.5%	7.28	0	6.320	0.1%	3.14	0.0%	127.0	0.5	1.82	110	150	31.81	3.0	clear/none
0850	25.4		7.28		6.321		3.14		127.0		1.75		150	31.81	3.75	clear/none

Stop Purge Time: 0851	Sample Time: 0852	QA/QC Sample Time(s): NA
	Sample ID: M-206-20200511	QA/QC Sample ID(s): NA

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/12/20 Well ID: M-207

Field Sample(s): A. Morgan

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: good

Depth to Water (ft): 32.36

Screened Interval Top (ft): 25

Pump Intake Depth (ft): 38.7

Well Depth (ft): 40

Screened/Open Interval Bottom (ft): 45

Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/Di Rinse SOP

Dedicated Tubing Present? (Y/N)

New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1007

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1019	27.3		7.47		5.456		2.68		3.9		4.8		160	32.37	0.32	none
1014	25.8		7.33		5.157		1.83		4.5		3.1		240	32.38	1.52	" "
1019	25.8		7.33		3.090		2.04		2.6		3.4		240	32.38	2.72	" "
1022	25.5		7.32		5.105		1.91		2.1		4.2		240	32.38	3.94	" "
1025	25.5	} 2.1%	7.31	} 2.1%	5.101	} 3%	1.87	} 2.6%	1.8	} 0.3 mV	4.8	} 2.1 NTU	240	32.38	4.16	" "
1028	25.8		7.31		3.141		1.86		1.8		5.1		240	32.38	4.88	" "

Stop Purge Time: 1026

Sample Time: 1030

QA/QC Sample Time(s):

Sample ID: M-207-20200512

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

QTY	Container	Volume	Material	Volume	Material	Volume	Material	Volume	Material
2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄		
1	125 mL w/EOA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass		

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/13/20	Well ID: M-208
Field Sampler(s): <u>A. M. Ryan</u>				
Transducer Removal Time: <u>Nil</u>	Transducer Redeployment Time: <u>NA</u>	General Well Condition: <u>good</u>		
Depth to Water (ft): <u>32.69</u>	Screened Interval Top (ft): <u>25</u>	Pump Intake Depth (ft): <u>29.9</u>		
Well Depth (ft): <u>41.83</u>	Screened/Open Interval Bottom (ft): <u>45</u>	Well Diameter (in): <u>4</u>		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<u>N</u> Dedicated Tubing Present? (Y/N)		<u>L</u> New Dedicated Tubing Placed? (Y/N)		

Time	Temp. (°C)		pH		Specific Conductivity (µmhos/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Gauge Vol. (ft³)	Comments
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0654	22.5		7.19		4.727		2.02		64.0		3.7		120	32.80	0.18	new bore
0657	22.7		7.00		4.790		1.34		60.9		3.3		120	32.83	0.84	" "
0700	21.7		7.09		4.807		1.12		59.4		3.0		120	32.86	1.2	" "
0703	23.0		7.09		4.832		1.02		59.2		2.7		120	32.90	1.56	" "
0706	22.9	} L11	7.09	} L0.1	4.827	} L11	0.99	} 5%	59.2	} 0.1	2.6	} LNTJ	100	32.91	1.86	" "
0709	23.0		7.08		4.830		0.97		59.1		2.7		100	32.91	2.16	" "

Stop Purge Time: <u>0710</u>	Sample Time: <u>0715</u>	QA/QC Sample Time(s): <u>N/A</u>
	Sample ID: <u>M-208-20200513</u>	QA/QC Sample ID(s): <u>N/A</u>

Observations/Comments

Bottle Est Summary										
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/13/20	Well ID: M-209
Field Scribble(s): A. Acrop				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 32.95	Screened Interval Top (ft): 50	Pump Intake Depth (ft): 55		
Well Depth (ft): 60.18	Screened/Open Interval Bottom (ft): 60	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DH Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0744

Time	pH		Cond (µmhos/cm)		Temp (°C)		DO (mg/L)		ORP (mv)		Turbidity (NTU)		Flow (gpm)	Depth (ft)	Flow Rate (gpm)	Notes
	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?				
0752	7.4		7.23		4.706		6.05		83.1		27		100	33.01	0.3	None/none
0755	7.4		7.23		5.881		6.07		84.4		2.3		75	33.11	0.53	" "
0758	7.4	} 1.21	7.26	} 60.1	5.816	} ~1	5.82	} 5.21	85.3	} 0.8 mv	3.0	} L10	75	33.17	0.75	" "
0801	7.4		7.26		5.878		5.74		85.7		2.9		75	33.24	0.98	" "

Stop Purge Time: 0802	Sample Time: 0805	QVQC Sample Time(s): 0805
	Sample ID: A-209-202005.3	QVQC Sample ID(s): M-209-202005.3-FD13

Observations/Comments

Bottle Set Inventory

4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring | Task Manager: Jesse Bunkers | Task No: M02 | Date: 5/12/20 | Well ID: M-210

Field Sampler(s): Dylan Davis

Transducer Removal Time: N/A | Transducer Redeployment Time: N/A | General Well Condition: Good

Depth to Water (ft): 35.94 33.0 | Screened Interval Top (ft): 70 | Pump Intake Depth (ft): 75'

Well Depth (ft): 86.5 | Screened/Open Interval Bottom (ft): 80 | Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEADPE | GW Disposal: GW-11 | Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) | New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0953

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (m/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0944	26.9		8.19		1.126		7.26		106		9.5		80	32.85	80.07	clear/aw
0957	24.9		7.74		1.120		4.90		113.8		9.1		80	32.91	0.48	
1000	25.1		7.74		1.126		4.20		129.3		8.4		20	33.01	0.58	
1003	25.0	<1%	7.74	0.01	1.128	<1%	4.16	1.7%	132.5	6.9	9.3	<10	20	32.98	0.68	
1006	25.1		7.73		1.130		4.13		136.2		9.2		20	32.99	0.78	

Stop Purge Time: 1007 | Sample Time: 1015 | QA/QC Sample Time(s): —

Sample ID: M-210-20200512 | QA/QC Sample ID(s): —

Observations/Comments: Set 13 fill 1/2 discharge for 20 min to keep below 0.3 ft of drawdown. Incredibly windy while sampling. 40 mph +

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jasse Bunkers	Task No: H02	Date: 5/12/20	Well ID: M-211
Field Sampler(s): Dylan Davis				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 36.44	Screened Interval Top (ft): 25	Pump Intake Depth (ft): 40.7 ft		
Well Depth (ft): 45.40	Screened/Open Interval Bottom (ft): 45	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? <input checked="" type="checkbox"/>		
Purge Start Time: 1200				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1201	26.7		7.63		4.182		2.95		136.4		4.2		160	36.55	0.16	clear/near
1204	25.1		7.34		4.070		1.70		139.7		4.2		160	36.55	0.80	
1207	24.6		7.30		4.031		1.49		141.4		4.2		160	36.55	1.44	
1210	24.3		7.25		4.005		1.16		146.5		4.2		160	36.55	2.08	
1213	24.3	<1%	7.24	0.01	4.004	1.5%	1.11	4.5%	148.1	3.3	4.1	<10	160	36.55	2.72	
1215	24.4	✓	7.24	✓	4.010	✓	1.12	✓	149.8	✓	4.0	✓	160	36.55	3.36	

Stop Purge Time: 1216	Sample Time: 1230	QA/QC Sample Time(s):
	Sample ID: M-211-20200512	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring | Task Manager: Jesse Bunkers | Task No: H02 | Date: 5/12/20 | Well ID: M-212

Field Sampler(s): Dylan Davis

Transducer Removal Time: N/A | Transducer Redeployment Time: N/A | General Well Condition: good

Depth to Water (ft): 36.22 | Screened Interval Top (ft): 60 | Pump Intake Depth (ft): 65 ft

Well Depth (ft): 70.30 | Screened/Open Interval Bottom (ft): 70 | Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE | GW Disposal: GW-11 | Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) | New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1317

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1318	28.7		8.03		2.813		7.40		26.9		8.1		160	36.20	0.16	|
1321	25.1		7.55		3.135		7.65		142.6		17.2		160	36.30	0.32	
1324	25.0		7.61		3.220		7.03		150.0		22.7		120	36.38	0.48	
1327	25.7		7.65		3.367		7.85		165.8		13.0		120	36.41	0.64	
1330	25.9		7.66		3.372		7.55		167.5		13.8		120	36.48	0.80	
1333	26.1		7.62		3.368		7.66		169.7		14.1		120	36.53	0.96	
1336	26.0		7.63		3.371		7.63		171.5		13.8		120	36.58	1.12	
1339	26.0		7.64		3.378		7.63		170.9		12.3		120	36.63	1.28	
1342	26.1		7.62		3.381		7.63		171.3		12.1		120	36.78	1.44	
1345	26.0		7.63		3.379		7.63		171.8		11.9		120	36.89	1.60	
1348	26.0	0.1	7.63	0.1	3.375	0.1%	7.62	0.1%	172.1	0.4%	11.5	1.68%	120	36.95	1.76	
1351	26.0		7.63		3.371		7.63		171.5		11.7		120	37.08	1.92	

Step Purge Time: 1352 | Sample Time: 1415 | QA/QC Sample Time(s): —

Sample ID: M-212-20200512 | QA/QC Sample ID(s): —

Observations/Comments: Well had difficulty stabilizing water level. Dropped to 120 ml/min and was still not recovering. Filled several system values before sampling.

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/13/20	Well ID: M-213
Field Sample(s): Dylan Davis				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 35.95	Screened Interval Top (ft): 100	Pump Intake Depth (ft): 105		
Well Depth (ft): 110.70	Screened/Open Interval Bottom (ft): 110	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N) (not left in well)		
Purge Start Time: 1255				

Time	Temp. (°F)		pH (at 25°C)		Conductivity (µS/cm)		DO (mg/L)		Turbidity (NTU)		Purge Vol. (mL)	Depth to Water (ft)	CYANIDE			
	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?						
1306	31.9		8.10		1.138		5.28		69.1		20.1	200 mL	35.75	0.02	clear/clear	
309	30.3		7.97		1.071		4.42		100.9		14.7	20 mL	35.90	0.12		
1312	30.3		7.98		1.035		4.36		118.2		14.9	20 mL	35.90	0.22		
1315	27.5		7.96		1.020		4.13		121.5		14.2	50 mL	35.92	0.47		
1318	28.4		7.96		1.021		3.81		124.7		14.7	60 mL	36.00	0.72		
1321	28.4	<1.0%	7.96	0.0	1.028	<1.0%	3.79	<1.0%	128.6	4.6	14.7	0.0	60 mL	36.04	0.97	
1324	29.3		7.96		1.027		3.78		129.3		14.2		60 mL	36.08	1.22	

Stop Purge Time: 1325	Sample Time: 1330	QA/QC Sample Time(s):									
	Sample ID: M-213-20200513	QA/QC Sample ID(s):									
Observations/Comments: 10 min for water to reach and fill flow cell. 60 mL/min set at 700 psi fill & discharge 9.											
Bottle Set Summary											
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass
*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity											



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: HQ2 Date: 5/12/20 Well ID: M-214

Field Sampler(s): B. M. Hunn

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: good

Depth to Water (ft): 43.55

Screened Interval Top (ft): 30

Pump Intake Depth (ft): 46.5

Well Depth (ft) (51) 49.50

Screened/Open Interval Bottom (ft): 50

Well Diameter (in): 4

Pump/Tubing Type: OED Bladder Pump & TLPEALDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconow/DI Rinse SOP

N Dedicated Tubing Present? (Y/N)

Y New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 8:24

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0828	26.9		7.30		1.701		4.43		155.1		11.4		200	44.50		clear/N
0831	25.3		7.33		3.904		5.98		172.2		4.3		100	44.57		clear/N
0834	25.5		7.37		4.057		6.62		174.0		3.4		90	44.63		clear/N
0837	25.5	0	7.39	0.02	4.056	<10%	6.70	1%	176.2	2.9	3.4	<10	90	44.70		clear/N
0840	25.5		7.39		4.083		6.72		176.9		3.2		90	44.75		clear/N
															1.9L	

Stop Purge Time: 0842

Sample Time: 0845

QA/QC Sample Time(s): 06:30

Sample ID: M-214-20200512

QA/QC Sample ID(s): M-214-20200512-TB13

Observations/Comments

Bottle Set Summary

42	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
69	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Barkers Task No: H02 Date: 5/11/20 Well ID: M-220

Field Sampler(s): B Chinn

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 49.40^{SC} 39.40 Screened Interval Top (ft): 60 Pump Intake Depth (ft): 65

Well Depth (ft): 71 71.00 Screened/Open Interval Bottom (ft): 70 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1100

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1101	28.2		8.15		1.295		8.00		65.2		52.7		300	39.42		clear/N
1104	29.1		7.99		1.293		7.70		94.2		158.0		200	37.65		clear/N
1107	29.7		7.99		1.307		7.50		102.4		162.5		100	39.80		clear/N
1110	30.5		7.78		1.324		7.63		107.3		217.9		100	39.85		clear/N
1113	30.9	10%	7.98	0	1.331	20%	7.68	5%	111.3	7.3	212.3	100%	100	39.86		clear/N
1116	30.7		7.98		1.346		7.98		114.6		198.3		100	39.86	2.1L	clear/N

Stop Purge Time: 1118 Sample Time: 1120 QA/QC Sample Time(s): 1120 630

Sample ID: M-220-20200511 QA/QC Sample ID(s): ~~555~~ M-220-20200511-11310

Observations/Comments: change pump settings to 40/20, lower purge rate to stabilize drawdown

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-11-20	Well ID: M-260
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 35.45	Screened Interval Top (ft): 65	Pump Intake Depth (ft): 70		
Well Depth (ft): 75.4	Screened/Open Interval Bottom (ft): 75	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP <input checked="" type="checkbox"/>		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 07:35				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0740	24.6		7.58		1.500		2.15	2.15	192.4		19.4		150	35.81		
0745	24.8		7.53		1.498		0.73	0.73	109.7		15.2		150	35.86		Clear/NO
0750	24.7		7.52		1.499		0.63	0.63	82.1		17.3		150	35.91		
0755	24.6		7.54		1.505		0.52	0.52	73.4		14.2		150	35.95		
0800	24.7		7.56		1.510		0.47	0.47	64.8		13.5		135	35.96		
0805	24.8		7.56		1.514		0.44	0.44	56.7		13.9		↓	35.96		
0808	24.9		7.58		1.514		0.41	0.41	48.0		13.2		↓	35.96		
0812	24.8	<1%	7.58	0.02	1.521	<1%	0.40	All	47.3	9.4	13.0	7%	↓	35.96	5 1/2	
								<5 mg/L		mV						

Stop Purge Time: 08:13	Sample Time: 08:19	QA/QC Sample Time(s): NA
Sample ID: M-260-20200511	QA/QC Sample ID(s): NA	
Observations/Comments: Reduced flow rate at 7:42. This stabilized water level. Pump settings: Rel: 11 12 s, discharge 8 sec, pressure 40 psi. Changed to 13 s R & 7 s D @ 0757		
Bottle Set Summary		
2x 3x VOA w/HCl	1 125 mL Plastic sterile	500 mL Plastic
1 125 mL w/EDA	1 250 mL Plastic	500 mL w/H ₂ SO ₄
		500 mL poly w/HNO ₃
		250 mL Amber Glass w/H ₂ SO ₄
		250 mL poly w/HNO ₃
		250 mL Amber Glass w/H ₂ PO ₄
		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burkert Task No: H02 Date: 5-11-20 Well ID: M-261

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 31.76 Screened Interval Top (ft): 60 Pump Intake Depth (ft): 67 1/2

Well Depth (ft): 75.55 Screened/Open Interval Bottom (ft): 75 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposit: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0920

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0927	25.8		7.54		3.214		2.72		120.7		4.0		130	32.20		clear/no
0931	25.6		7.58		3.241		1.84		130.2		1.04	3.6		32.33		
0936	25.8		7.59		3.243		1.70		139.3		3.3			34.59		
0940	26.2		7.59		3.242		1.68		141.9		3.5			32.72		
0943	26.2		7.59		3.244		1.66		144.2		3.1			32.85		
0947	26.3		7.59		3.230		1.65		147.1		3.1		90	32.92		
0950	26.7		7.59		3.244		1.67		149.7		2.8			32.96		
0953	26.7		7.59		3.248		1.67		151.4		2.8			33.00		
0956	26.9		7.59		3.244		1.68		153.3		2.9		75	33.01		
1000	27.2	2%	7.58	0.01	3.250	<1%	1.68	<1%	155.0	3.6 mV	2.9	All <10 NTU		33.03	4 1/2	✓

Stop Purge Time: 10:01 Sample Time: 10:06 QA/QC Sample Time(s): NA

Sample ID: M-261-20200511 QA/QC Sample ID(s): NA

Observations/Comments: Pump settings: 14s Refill, 6s discharge, 40 ps., Then 16s R a 4 s d: sch. @ 0945
Then 25 s Refill a 5 s disch @ 0955

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	500 mL Amber Glass w/H2PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 2
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-11-20 Well ID: M-262

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA

Depth to Water (ft): 31.69 Screened Interval Top (ft): 90 General Well Condition: Good

Well Depth (ft): 90.60 Screened/Open Interval Bottom (ft): 90 Pump Intake Depth (ft): 85

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

✓ Dedicated Tubing Present? (Y/N) N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1058

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1104	32.6		7.64		2.541		3.46		147.6		3.9		60	31.66		Clear No
1107	33.6		7.63		2.009		2.84		148.3		3.3		60	31.71		
1110	34.2		7.65		1.523		2.04		149.8		2.8		60	31.75		
1115	34.6		7.65		1.266		1.66		51.7		2.5			31.84		
1120	34.9	34.7	7.65		1.116		1.36		105.8		4.3			32.00		
1125	35.0		7.66		1.061		1.09		122.5		2.5			32.07		
1130	35.0		7.65		1.049		0.96		132.2		2.6			32.16		
1135	35.3		7.65		1.046		0.89		138.6		2.5		↓	32.25		
1139	35.7		7.65		1.044		0.88		142.6		2.4		39	32.31		
1143	36.3		7.65		1.046		0.89		143.9		2.7			32.36		
1148	35.9		7.64		1.050		0.93		147.2		3.2			32.45		
1153	32.4		7.65		1.042		0.91		150.1		2.5			32.50		
1158	31.8		7.65		1.038		0.90		151.8		2.6			32.53		
1203	31.6		7.65		1.038		0.90		154.0		2.5			32.57		
1207	31.4		7.65		1.037		0.89		155.1		2.5		↓	32.60	3	↓

Stop Purge Time: 1237

Sample Time: 1243

QA/QC Sample Time(s):

Sample ID: M-262-20200511

QA/QC Sample ID(s): M-262-20200511-~~11~~ FB14

Observations/Comments: Initial pump settings: 145 R, 65 R, 40 PSI. Then 245 R, 65 R @ 137.

Field Blank: Temperature verified with another thermometer then realized tube was in the sun.

Bottle Set Summary

4x	3x VOA w/HCl	2	125 mL Plastic sterile	500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 2 of 2
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5-11-20	Well ID: M-262
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: 6000		
Depth to Water (ft): 31.64	Screened Interval Top (ft): 80	Pump Intake Depth (ft): 85		
Well Depth (ft): 90.6	Screened/Open Interval Bottom (ft): 90	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP ✓		
Dedicated Tubing Present? (Y/N) ✓		New Dedicated Tubing Placed? (Y/N) ✓		
Purge Start Time: 1058				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1211	26.8		7.67		1.044		0.85		158.0		2.5		34	32.65		clear/ISO
1215	24.0		7.69		1.030		0.81		158.6		2.5			32.70		
1218	23.6		7.69		1.026		0.80		159.3		2.49			32.72		
1222	23.8		7.66		1.023		0.77		160.5		2.66			32.75		
1225	25.2		7.65		1.006		0.77		159.2		2.72			32.77		
1228	28.6		7.67		1.014		0.77		158.6		3.13			32.80		
1232	28.9		7.65		1.033		0.78		158.7		2.65			32.83		
1236	28.7	190	7.64	0.03	1.035	1.6%	0.77	1.3%	159.1	0.5 mV	2.40	All <10 NTU		32.87	3 3/4	✓

Stop Purge Time: 12:37	Sample Time: 12:43	QA/QC Sample Time(s):
Sample ID: M-262-20200511	QA/QC Sample ID(s): M-262-20200511-FB14	

Observations/Comments

see pg 1

Bottle Set Summary

2x	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/11/20 Well ID: M-263

Field Sampler(s): J. Mastas

Transducer Removal Time: *na* Transducer Redeployment Time: *na* General Well Condition: *Good*

Depth to Water (ft): *31.75* Screened Interval Top (ft): *60* Pump Intake Depth (ft): *65*

Well Depth (ft): *71* Screened/Open Interval Bottom (ft): *70* Well Diameter (in): *4*

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Deposit: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: *0940*

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0945	25.7		7.31		6.990		1.35		89.1		2.38		210	32.12	1.05	<i>clear/na</i>
0950	25.6		7.32		6.994		1.28		90.1		2.43		210	32.42	2.10	<i>clear/na</i>
0955	25.6	} 0.8% }	7.32	} 0	6.987	} 0	1.19	} 2.5%	92.1	} 5.1	1.77	} 2.10	210	32.06	3.15	<i>clear/na</i>
1000	25.8		7.32		6.987		1.17		94.3		1.63		210	32.72	4.20	<i>clear/na</i>
1005	25.8		7.32		6.987		1.16		95.2		1.43		210	32.81	5.25	<i>clear/na</i>

Stop Purge Time: *1006* Sample Time: *1008* QA/QC Sample Time(s): *NA*

Sample ID: *M-263-20200511* QA/QC Sample ID(s): *NA*

Observations/Comments

Bottle Set Summary

<i>2</i>	3x VOA w/HCl	<i>1</i>	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
<i>1</i>	125 mL w/EDA	<i>1</i>	250 mL Plastic		250 mL w/H ₂ SO ₄	<i>1</i>	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bankers	Task No: H02	Date: 5/11/20	Well ID: M-264
Field Sampler(s): J. Masters				
Transducer Removal Time: n/a	Transducer Redeployment Time: n/a		General Well Condition: Good	
Depth to Water (ft): 29.46	Screened Interval Top (ft): 85		Pump Intake Depth (ft): 90	
Well Depth (ft): 96	Screened/Open Interval Bottom (ft): 95		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPEALPE	GW Deposit: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1100

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1105	27.8		7.78		1.015		2.72		76.9		12.65		150	29.82	0.75	clear/none
1110	27.3		7.79		1.049		2.12		92.0		7.67		150	30.12	1.50	clear/none
1115	27.0		7.78		1.045		2.04		96.8		6.91		150	30.31	2.25	clear/none
1120	27.1		7.78		1.047		2.01		100.7		6.15		150	30.56	3.00	clear/none
1125	27.3	} 1.1%	7.78	} 0	1.048	} 0.1%	1.96	} 1%	105.3	} 32	5.46	} 210	150	30.95	3.75	clear/none
1130	27.0		7.78		1.047		1.95		106.2		5.51		150	31.14	4.50	clear/none
1135	27.1		7.78		1.047		1.94		108.5		5.32		150	31.31	5.25	clear/none

Stop Purge Time: 1136	Sample Time: 1138	QA/QC Sample Time(s): n/a
	Sample ID: M-264-20200511	QA/QC Sample ID(s): NA

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/12/20	Well ID: M-265
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: good	
Depth to Water (ft): 32.84	Screened Interval Top (ft): 60		Pump Intake Depth (ft): 65	
Well Depth (ft): 72.50	Screened/Open Interval Bottom (ft): 70		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Deposit: GW-11		Equipment Decon. Method: Alconox/CI Fibrex SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1114				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1116	27.1		7.53		1.613		4.70		31.3		7.3		120	32.91		None/none
1119	26.3		7.43		1.506		3.81		23.8		4.5		120	33.04	0.0	" "
1122	27.1	3%	7.44	0.01%	1.523	1.9%	3.50	10%	29.6	5.7%	4.7	5.3%	100	33.14		" "
1125	27.1		7.44		1.534		3.42		29.5		10.0		100	33.26	0.10	" "
															1.2L	

Stop Purge Time: 1126	Sample Time: 1130	QA/QC Sample Time(s):
	Sample ID: M-265-20200512	QA/QC Sample ID(s):
Observations/Comments: Unable to stabilize drawdown CO ₂ . At least one system volume purged prior to sampling.		

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Benkers	Task No: H02	Date: 5/12/20	Well ID: M-266
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 28.75	Screened Interval Top (ft): 90	Pump Intake Depth (ft): 95		
Well Depth (ft): 101	Screened/Open Interval Bottom (ft): 100	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decor. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1215				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1220	31.5		7.58		0.940		2.48		-1.5		6.9		60	28.69	0.3	none/none
1225	31.2		7.51		0.930		1.85		18.2		8.4		60	28.81	0.6	" "
1228	31.1		7.50		0.928		1.57		24.7		7.4		70	28.90	0.81	" "
1231	31.3	0.6%	7.49	0.01%	0.931	0.02%	1.40	8.3%	26.3	0.6%	6.8	<10 NTU	70	29.02	1.02	" "
1234	31.3		7.49		0.930		1.44		25.3		7.1		60	29.11	1.2	" "

Stop Purge Time: 1235	Sample Time: 1240	QA/QC Sample Time(s):
	Sample ID: M-266-20200512	QA/QC Sample ID(s):

Observations/Comments: Unable to stabilize well at less than 0.5' drawdown. At least one system volume purged prior to sampling.

Bottle Set Summary	1	2	3	4	5	6	7	8	9		
3x VOA w/HCl		1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jessa Bunkers Task No: H02 Date: 5/11/20 Well ID: M-207

Field Sampler(s): AEC

Transducer Removal Time: N/A Transducer Redeployment Time: N/A General Well Condition: (GOOD)

Depth to Water (ft): 42.23 Screened Interval Top (ft): 80 Pump Intake Depth (ft): 57.2

Well Depth (ft): 94.42 (90) Screened/Open Interval Bottom (ft): 95 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TUPELOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1343 1350

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1356	31.5		7.64		1.153		6.09		117.0		22.04		180	43.67	1.08	N/N
1359	31.7		7.60		1.143		5.33		127.1		72.48		60	43.73	1.26	N/N
H02	33.9		7.60		1.152		5.15		131.2		102.3		60	43.79	1.44	N/N
1405	35.1	10.7%	7.60	0.01	1.158	1.3%	5.30	3.5%	135.2	8.1mV	65.76	130%	60	43.84	1.62	N/N

Stop Purge Time: 1408 Sample Time: 1410 QA/QC Sample Time(s): N/A

Sample ID: QA/QC Sample ID(s): N/A

Observations/Comments: Tubing volume 570 mL ? 1.02 L system volume Pump volume 80 mL } Purge Stopped due to excessive drawdown

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/11/20 Well ID: M-268
 Field Sampler(s): D. Chhun
 Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good
 Depth to Water (ft): 44.35 44.49 Screened Interval Top (ft): 100 Pump Intake Depth (ft): 107.5
 Well Depth (ft): (116) Screened/Open Interval Bottom (ft): 115 Well Diameter (in): 4
 Pump/Tubing Type: QED Bladder Pump & TLPE/LOPE GW Disposal: GW-11 Equipment Decor. Method: Alconox/DI Rinse SOP
 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)
 Purge Start Time: 0718

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0730	25.3		7.53		0.920		8.19		189.6		50.2		60	44.10		clear
0735	25.0		7.86		0.930		6.82		173.9		9.5		60	44.18		
0738	25.1		7.83		0.928		4.16		174.6		8.9		60	44.38		
0731	25.1	0.4%	7.84	0.7%	0.928	0.22%	3.73	<5mg/L	173.5	0.9%	9.5	0.9%	60	44.51	1.2L	↓
0734	25.2		7.84		0.929		3.66		173.1		10.4		44.59			
0738	25.2		7.84		0.930		3.56		172.6		11.4		44.67			

Stop Purge Time: 0739 Sample Time: 0740 QA/QC Sample Time(s): 800
 Sample ID: M-268-20200512 QA/QC Sample ID(s): M-268-20200512 - FB10
 Observations/Comments: unable to maintain purge ± system volume < 0.3 L drawdown w/ low flow make
 Bottle Set Summary: M-268-20200512-TB10 @ 0630

4	3x VOA w/HCl	7	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

1.2L



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jessa Bunkers Task No: H02 Date: 5/11/20 Well ID: ML-3

Field Sampler(s): A Argon

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 33.80 Screened Interval Top (ft): 30.3 Pump Intake Depth (ft): 40.2

Well Depth (ft): 44.00 Screened/Open Interval Bottom (ft): 44.3 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconex/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N)

N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1215

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1218	31.8		6.88		41.77		3.31		-27.1		19.1		80	33.86	0.24	None / No (1.00)
1221	31.8		6.80		39.832		1.58		-43.5		11.1		80	33.88	0.48	" "
1224	31.3		6.82		39.437		1.25		-54.7		7.7		80	33.88	0.72	" "
1227	30.3		6.84		38.611		1.01		-64.8		5.7		100	33.92	1.32	" "
1230	29.7		6.84		38.274		0.83		-71.2		3.9		100	33.92	1.92	" "
1233	29.5		6.85		38.161		0.77		-74.1		3.5		100	33.92	2.52	" "
1236	29.5	no change	6.85	no change	38.168	±1%	0.74	±0.8%	-73.5	±2%	3.0	±1% NTU	100	33.92	3.12	" "
1239	29.5	change	6.85	change	38.142		0.71		-77.0		2.6		100	33.92	3.72	" "

Stop Purge Time: 1240 Sample Time: 1245 QAVC Sample Time(s): N/A

Sample ID: ML-3-20200511 QAVC Sample ID(s): N/A

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkars	Task No: H02	Date: 5/11/20	Well ID: MC-6
Field Sampler(s): H.M. [unclear]				
Transducer Removal Time: N/A		Transducer Redeployment Time: N/A		General Well Condition: good
Depth to Water (ft): 28.03	Screened Interval Top (ft): 20.9		Pump Intake Depth (ft): 33.5	
Well Depth (ft): 77.04	Screened/Open Interval Bottom (ft): 39.2		Well Diameter (in): 2	
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE		GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0749				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (min/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0750	26.1		6.96		24.081		2.41		96.2		54.0		2.00	28.05	0.2	None/Spec
0755	26.1		6.96		24.144		2.30		89.7		10.4		2.00	28.05	1.2	" "
0800	26.0		6.97		24.052		0.84		70.1		2.7		2.00	28.05	2.2	" "
0803	26.0		6.98		24.043		0.82		65.3		2.5		2.00	28.05	2.8	" "
0806	26.1	± 1%	6.98	no change	24.053	± 1%	0.78	} 7.39	59.1	} 9.7	1.9	} 10 NTU	2.00	28.05	3.4	" "
0809	26.1		6.98		24.053		0.76		55.6		1.6		2.00	28.05	4.0	" "

Stop Purge Time: 0810	Sample Time: 0812	QA/QC Sample Time(s): N/A
	Sample ID: MC-6-20202511	QA/QC Sample ID(s): N/A

Observations/Comments

N/A

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/11/20	Well ID: MC-7
Field Sampler(s): A. Longman				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 27.53	Screened Interval Top (ft): 31.6	Pump Intake Depth (ft): 36.1		
Well Depth (ft): 40.62	Screened/Open Interval Bottom (ft): 40.7	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposit: GW-11	Equipment Decor. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0926				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0907	27.0		6.92		10.948		38.3		45.8		5.6		300	27.53	0.3	None / none
0912	26.3		6.86		10.920		1.38		27.6		5.8		300	27.53	1.8	" "
0917	26.4		6.86		10.693		0.98		21.6		6.9		300	27.53	3.3	" "
0921	26.3		6.86		10.624		0.89		18.4		2.0		300	27.53	4.8	" "
0924	26.3		6.86		10.646		0.79		16.1		6.2		300	27.53	5.4	" "
0927	26.2		6.86		10.610		0.71		14.0		3.5		300	27.53	6.3	" "
0931	26.3	<1	6.85	<0.1	10.585	<1	0.67	8.5	12.6	5.2	2.0	<10	300	27.53	7.2	" "
0934	26.4		6.85		10.565		0.65		10.8		2.7	<10	300	27.53	8.1	" "

Stop Purge Time: 0935	Sample Time: 0940	QA/QC Sample Time(s): 0940
	Sample ID: MC-7-20200511	QA/QC Sample ID(s): MC-7-20200511-FD17

Observations/Comments
NA

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: MC-50																		
sys_loc_code	measurement_date	Measurement_time	Parameter Parameter Unit Stability	Temp. C ± 3%	pH SU ± 0.1	Conductivity mS/cm ± 3%	DO mg/L ± 10% or <0.5	ORP mV ± 10	Turbidity NTU ± 10% or <10	Purge Rate mL/min	Depth to Water ft	Cum. Vol. Purged mL	Color/Odor none					
			READ CHANGE	READ CHANGE	READ CHANGE	READ CHANGE	READ CHANGE	READ CHANGE	READ CHANGE	READ	READ	READ	READ					
MC-50	5/11/20 11:11	11:11	29.8		7.11	0.0	26.592	3.81	362.1	300	29.1	900	None/None					
MC-50	5/11/20 11:14	11:14	30.8	3%	7.16	0.0	26.877	1%	338.7	23	11.3	205%	300	29.1	1800	None/None		
MC-50	5/11/20 11:17	11:17	27.2	-12%	7.15	0.0	25.406	-5%	1.28	-0.61	319.9	19	32.8	190%	300	29.1	2700	None/None
MC-50	5/11/20 11:21	11:21	27.1	0%	7.14	0.0	25.309	0%	0.79	-0.38	300.8	19	24.0	-27%	300	29.1	3900	None/None
MC-50	5/11/20 11:24	11:24	27.0	0%	7.14	0.0	25.227	0%	0.55	-0.30	286.9	14	28.5	19%	300	29.1	4800	None/None
MC-50	5/11/20 11:27	11:27	26.9	0%	7.13	0.0	25.198	0%	0.84	0.53	276.6	10	55.2	94%	300	29.1	5700	None/None
MC-50	5/11/20 11:30	11:30	26.9	0%	7.13	0.0	25.207	0%	1.11	0.32	269.1	8	122.0	121%	300	29.1	6600	None/None
MC-50	5/11/20 11:33	11:33	26.9	0%	7.13	0.0	25.184	0%	1.11	0.00	264.9	4	124.7	2%	300	29.1	7500	None/None
MC-50	5/11/20 11:36	11:36	27.0	0%	7.13	0.0	25.188	0%	1.09	-0.02	259.7	5	198.0	59%	300	29.1	8400	None/None
MC-50	5/11/20 11:39	11:39	27.0	0%	7.13	0.0	25.173	0%	0.87	-0.20	255.3	4	204.8	3%	300	29.1	9300	None/None
MC-50	5/11/20 11:42	11:42	26.9	0%	7.13	0.0	25.137	0%	0.82	-0.06	252.4	3	235.6	15%	300	29.1	10200	None/None
MC-50	5/11/20 11:45	11:45	26.8	0%	7.13	0.0	25.120	0%	0.53	-0.35	248.1	4	292.4	24%	300	29.1	11100	None/None
MC-50	5/11/20 11:49	11:49	27.0	1%	7.13	0.0	25.174	0%	0.82	0.55	243.9	4	203.8	-30%	300	29.1	12300	None/None
MC-50	5/11/20 11:51	11:51	27.1	0%	7.13	0.0	25.229	0%	1.09	0.33	242.9	1	244.6	20%	300	29.1	12900	None/None
MC-50	5/11/20 11:54	11:54	27.3	1%	7.13	0.0	25.275	0%	1.35	0.24	240.7	2	69.2	-72%	300	29.1	13800	None/None
MC-50	5/11/20 11:57	11:57	27.1	-1%	7.13	0.0	25.073	-1%	1.13	-0.16	240.7	0	99.1	43%	300	29.1	14700	None/None
MC-50	5/11/20 12:00	12:00	27.2	0%	7.12	0.0	25.153	0%	1.02	-0.10	239.6	1	163.2	65%	300	29.1	15600	None/None
MC-50	5/11/20 12:04	12:04	27.1	0%	7.12	0.0	25.113	0%	1.15	0.13	241.2	2	412.6	153%	300	29.1	16800	None/None
MC-50	5/11/20 12:07	12:07	27.1	0%	7.12	0.0	25.116	0%	0.90	-0.22	239.1	2	110.9	-73%	300	29.1	17700	None/None

Note:
Erroneous turbidity readings due to bubbles on sensor.



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: M02	Date: 5/11/20	Well ID: MC-51
Field Sampler(s): A. V. Logan				
Transducer Removal Time: 8:07	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 30.34	Screened Interval Top (ft): 25.1	Pump Intake Depth (ft): 37.7		
Well Depth (ft): 45.04	Screened/Open Interval Bottom (ft): 5.0	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) Y		New Dedicated Tubing Placed? (Y/N) N		
Purge Start Time: 1337				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1338	27.1		6.80		24.617		1.17		-4.0		11.7		210	30.34	0.24	none/none
1343	27.0		6.81		22.416		0.95		-6.0		12.1		300	30.34	1.74	" "
1346	26.8		6.82		24.421		0.83		-7.2		13.5		300	30.34	3.24	" "
1349	26.7		6.84		24.462		0.74		-12.3		14.3		300	30.34	3.54	" "
1352	26.9		6.84		22.4156		0.87		-13.4		11.5		300	30.34	4.44	" "
1355	26.9		6.84		24.45		0.72		-11.1		4.2		300	30.34	5.32	" "
1358	26.9		6.84		24.421		0.68		-14.7		7.9		300	30.34	6.22	" "
1401	27.0	} <1% change	6.84	} NO change	24.458	} 2.1	0.66	} 4.6	-14.7	} 0.3 M	6.0	} <10 NTU	300	30.34	7.12	" "
1404	26.9		6.84		24.455		0.65		-15.0		4.6		300	30.34	8.02	" "

Stop Purge Time: 1405	Sample Time: 1406	QA/QC Sample Time(s): NP
	Sample ID: MC-51-20200511	QA/QC Sample ID(s): NP

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Barkers	Task No: H02	Date: 5/12/20	Well ID: AL-53
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 31.08	Screened Interval Top (ft): 21.6	Pump Intake Depth (ft): 35.57		
Well Depth (ft): 46.05	Screened/Open Interval Bottom (ft): 41.6	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Y Dedicated Tubing Present? (Y/N)		ΔL New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0709				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
710	25.5		6.65		19.689		2.19		49.4		49.3		300	31.01	0.3	white foam
715	25.6		6.67		19.713		2.06		48.4		22.8		300	31.09	1.8	none/none
720	25.6		6.69		19.740		2.35		48.6		8.1		300	31.09	3.3	" "
723	25.5		6.70		19.740		2.43		48.2		5.4		300	31.09	4.2	" "
726	25.6	} L11	6.71	} L0.1	19.752	} L11	2.47	} 4%	49.0	} 0.1 ΔL	4.4	} L10 NTU	300	31.09	5.1	" "
729	25.6		6.71		19.748		2.53		49.1		6.8		300	31.09	6.0	" "

Stop Purge Time: 0710	Sample Time: 0735	QA/QC Sample Time(s): 0735
	Sample ID: AL-53-20200512	QA/QC Sample ID(s): AL-53-20200512-FD12

Observations/Comments

Bottle Set Summary										
4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: MC-65R2

Field Sampler(s): A CROCKETT

Transducer Removal Time: N/A Transducer Redeployment Time: N/A General Well Condition: Buried - had to be excavated

Depth to Water (ft): 30.80 (31.35) Screened Interval Top (ft): 21 Pump Intake Depth (ft): 30

Well Depth (ft): 40.77 (41) Screened/Open Interval Bottom (ft): 41 Well Diameter (in): 4

Pump/Tubing Type: OED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1214

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1217 26.7			7.07		14.486		0.88		130.3		0.73		90	30.90	0.27	N/N
220 28.1			7.08		14.477		0.92		130.5		0.42		120	30.90	0.63	N/N
1223 27.6			7.08		14.515		0.98		131.6		0.84		120	30.93	0.99	N/N
2226 27.6			7.08		14.492		0.87		132.4		0.69		120	30.95	1.35	N/N
2229 27.8			7.08		14.503		0.74		132.9		0.68		120	30.96	1.71	N/N
1231 27.7			7.07		14.490		0.72		133.1		0.88		120	30.96	2.95	N/N
1234 27.9			7.07		14.496		0.70		133.6		0.74		120	30.96	2.31	N/N
1237 28.0	1.08%		7.07	0	14.515	0.27%	0.69	4.3%	134.1	1 mV	0.81	<10 NTU	120	30.96	2.67	N/N

Stop Purge Time: 1240 Sample Time: 1242 QA/QC Sample Time(s): _____

Sample ID: MC-65R2-26200508 QA/QC Sample ID(s): _____

Observations/Comments

Bottle Set Summary

Count	Container	Volume	Material
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄
			500 mL w/H ₂ SO ₄
			500 mL poly w/HNO ₃
			500 mL poly w/HNO ₃
			250 mL Amber Glass w/H ₂ SO ₄
			250 mL Amber Glass w/H ₂ PO ₄
			500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/11/20	Well ID: MC-69
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA		Transducer Redeployment Time: NA		General Well Condition: <i>2001</i>
Depth to Water (ft): 31.11	Screened Interval Top (ft): 30.8		Pump Intake Depth (ft): 37.9	
Well Depth (ft): 46.44.6.8	Screened/Open Interval Bottom (ft): 45.8		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPELOPE		GW Deposit: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP
Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1051				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µmS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1052	29.4		7.20		25.630		3.42		10.1		6.3		240	31.11	0.24	None/None
1057	27.1		7.10		24.660		0.88		-6.5		4.3		240	31.11	1.44	" "
1102	27.0		7.13		24.541		0.77		-15.2		4.2		240	31.11	2.64	" "
1105	27.0		7.13		24.497		0.71		-20.9		3.9		240	31.11	3.36	" "
1108	27.0	} <i>no change</i>	7.14	} <0.1	24.505	} <1	0.69	} 4.4	-22.8	} 3.6	3.6	} <10 NTU	240	31.11	4.08	" "
1111	27.0		7.14		24.503		0.68		-24.5		3.7		240	31.11	4.80	" "

Stop Purge Time: 1112	Sample Time: 1115	QA/QC Sample Time(s): NA
	Sample ID: MC-69-20200511	QA/QC Sample ID(s): NA

Observational Comments
NTX

Bottle Set Summary

2	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkars	Task No: H02	Date: 5/12/20	Well ID: MC-93
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 32.60	Screened Interval Top (ft): 33.4	Pump Intake Depth (ft): 38.4		
Well Depth (ft): 41.85	Screened/Open Interval Bottom (ft): 43.4	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		
+ Dedicated Tubing Present? (Y/N)		N. New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0838				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µmS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0840	25.9		6.91		15.625		2.40		27.8		265.1		300	32.60	0.3	white foam
0845	25.7		6.81		15.661		3.89		30.0		228.0		300	32.60	1.8	" "
0850	25.6		6.84		15.648		3.66		27.1		103.0		300	32.60	3.3	" "
0855	25.5		6.85		15.463		3.30		23.9		33.9		300	32.60	4.8	" "
0900	25.6		6.84		15.385		2.95		24.6		29.3		300	32.60	6.3	" "
0903	25.6	} 2.1%	6.84	} no change	15.359	} 2.1%	2.84	} 8.5%	25.3	} 1.1	28.4	} 8.7%	300	32.60	7.2	" "
0906	25.5		6.84		15.340		2.70		25.7		26.7		300	32.60	8.1	" "

Stop Purge Time: 0907	Sample Time: 0908	QA/QC Sample Time(s): -
	Sample ID: MC-93-20200512	QA/QC Sample ID(s): -

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Benkers	Task No: H02	Date: 5/11/20	Well ID: MC-97
Field Sampler(s): Dylan Davis				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 35.70	Screened Interval Top (ft): 31.9	Pump Intake Depth (ft): 38.6		
Well Depth (ft): 41.45	Screened/Open Interval Bottom (ft): 41.9	Well Diameter (in): 2 in		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0749				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0750	25.3		6.73		23.201		1.87		224.4		11.6		160	35.73	0.16	clear/odor
0753	25.2		6.73		23.134		1.42		208.1		10.1		240	35.73	0.96	
0756	25.1		6.74		23.094		1.12		189.2		5.5		240	35.73	1.76	
0759	25.1		6.74		23.079		1.02		169.9		4.7		240	35.73	2.56	
0800	25.1		6.73		23.061		0.91		155.7		3.9		240	35.73	3.36	
0805	25.1	0.0	6.73	0.0	23.042	<10%	0.89	10%	52.5	6.1	3.6	<10	240	35.73	4.16	
0809	25.1		6.73		23.024		0.85		146.4		3.4		240	35.73	4.96	

Stop Purge Time: 0809	Sample Time: 0810	QA/QC Sample Time(s): N/A
	Sample ID: MC-97-20200511	QA/QC Sample ID(s): N/A

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/8/20	Well ID: MC-MW37R2
Field Sampler(s): A. Calkett				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Buried, had to be excavated		
Depth to Water (ft): 30.77	Screened Interval Top (ft): 53	Pump Intake Depth (ft): 58		
Well Depth (ft): 63.10 (64)	Screened/Open Interval Bottom (ft): 63	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 1002				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1069	22.6		7.140		6.527		1.30		47.1		7.92		75	30.61	0.525	N/N
1044	27.0		7.33		6.550		1.07		53.1		6.68		10	30.73	0.575	N/N
1017	27.5		7.34		6.565		1.14		51.2		5.93		10	30.73	0.605	N/N
020	27.9		7.35		6.566		1.17		55.4		6.09		30	30.74	0.695	N/N
1023	27.9		7.35		6.582		1.20		57.1		5.90		15	30.77	0.740	N/N
1026	27.9		7.36		6.576		1.21		59.2		6.14		15	30.77	0.785	N/N
1029	28.1		7.36		6.577		1.23		60.2		6.69		15	30.78	0.830	N/N
1032	28.3	1.43	7.36	0	6.580	0.06%	1.24	2.5%	66.1	1.9mV	7.12	<10NTU	15	30.78	0.875	N/N

Stop Purge Time: 1035	Sample Time: 1042	QA/QC Sample Time(s): 1119
	Sample ID: MC-MW-37R2-20200508	QA/QC Sample ID(s): MC-MW-37R2-20200508-E47

Observations/Comments

Tubing = 380 mL } 0.66 L
 Purge = 80 mL }

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: MCF-06B

Parameter		Temp.	pH		Conductivity		DO		ORP		Turbidity		Purge Rate	Depth to Water	Cum. Vol. Purged	Color/Odor		
Parameter Unit	Stability	C	SU		mS/cm		mg/L		mV		NTU		mL/min	ft	mL	none		
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ		
MCF-06B	5/20/20 7:38	07:38:00	22.0		5.33		38.696		6.02		468.1		7.8	160	55.86	480	None/None	
MCF-06B	5/20/20 7:41	07:41:00	23.2	5%	7.62	2.3	41.459	7%	1.57	-74%	409.1	59	2.2	-72%	80	55.88	720	None/None
MCF-06B	5/20/20 7:44	07:44:00	23.0	-1%	8.04	0.4	41.371	0%	1.20	-24%	390.8	18	2.1	-5%	80	56.05	960	None/None
MCF-06B	5/20/20 7:47	07:47:00	22.9	0%	8.15	0.1	41.301	0%	1.07	-11%	380.3	11	3.4	62%	80	56.09	1200	None/None
MCF-06B	5/20/20 7:50	07:50:00	23.1	1%	8.18	0.0	41.311	0%	0.94	-12%	373.8	7	5.8	71%	80	56.12	1440	None/None
MCF-06B	5/20/20 7:53	07:53:00	23.1	0%	8.19	0.0	41.398	0%	0.93	-1%	368.3	6	10.4	79%	80	56.28	1680	None/None
MCF-06B	5/20/20 7:56	07:56:00	23.1	0%	8.20	0.0	41.385	0%	0.83	-11%	364.4	4	15.5	49%	80	56.36	1920	None/None

Purge Data: MCF-06C

Parameter		Temp.	pH		Conductivity		DO		ORP		Turbidity		Purge Rate	Depth to Water	Cum. Vol. Purged	Color/Odor		
Parameter Unit		C	SU		mS/cm		mg/L		mV		NTU		mL/min	ft	mL	none		
Stability		± 3%	± 0.1		± 3%		± 10% or <0.5		± 10		± 10% or <10							
sys_loc_code	measurement_date	Measurement_time	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	READ	READ	READ		
MCF-06C	5/20/20 9:00	09:00:00	24.9		7.85		11.314		4.81		319.5		8.6	180	55.09	540	None/None	
MCF-06C	5/20/20 9:03	09:03:00	24.6	-1%	7.53	0.3	10.661	-6%	3.57	-26%	327.3	8	4.9	-43%	90	55.15	810	None/None
MCF-06C	5/20/20 9:07	09:07:00	24.8	1%	7.44	0.1	10.598	-1%	3.30	-8%	330.8	4	4.5	-8%	90	55.00	1080	None/None
MCF-06C	5/20/20 9:10	09:10:00	25.0	1%	7.42	0.0	10.571	0%	3.26	-1%	333.0	2	4.5	0%	90	55.20	1350	None/None
MCF-06C	5/20/20 9:13	09:13:00	25.0	0%	7.40	0.0	10.559	0%	3.21	-2%	335.8	3	4.4	-2%	90	55.26	1620	None/None



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jessa Bunkers Task No: H02 Date: 5/21/20 Well ID: MW-02

Field Sampler(s): J. Bunkers

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good

Depth to Water (ft): 39.38 Screened Interval Top (ft): 32 Pump Intake Depth (ft): 40.65

Well Depth (ft): 65 Screened/Open Interval Bottom (ft): 42 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N) U New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1430

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1433	27.8		6.13		3.872		6.37		66.0		93.9		300	39.40		clear/neutral
1436			-0.34		Stopped to recalibrate, restart purge 1454											
1457	25.3		8.33		3.824		5.94		129.5		17.8		..	..		..
1500	25.3		7.75		3.818		5.90		109.5		9.98		..	..		..
1503	25.2	<1%	7.72	0.03	3.820	<1%	5.88	1%	105.4	5.0	82.4	<10	..	..		..
1506	25.2		7.72		3.820		5.84		104.5		7.29		..	..	5.1	..

Stop Purge Time: 1507 Sample Time: 1510 QA/QC Sample Time(s): 1515

Sample ID: MW-02-20200521 QA/QC Sample ID(s): MW-02-20200521-EB19

Observations/Comments

Bottle Set Summary

	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
		2									
2	125 mL w/EDA		2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/18/20	Well ID: MW-3
Field Sampler(s): D. & D. S.				
Transducer Removal Time: —	Transducer Redeployment Time: —	General Well Condition: Good		
Depth to Water (ft): 2.80	Screened Interval Top (ft): N/A	Pump Intake Depth (ft): 7.5 ft		
Well Depth (ft): 13.00	Screened/Open Interval Bottom (ft): N/A	Well Diameter (in): 4"		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> Y		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> Y		
Purge Start Time: 1323				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1324	24.1		7.70		5611		5.56		178.0		86.1		320	2.80	0.32	Clear/none
1327	24.0		7.57		5600		5.46		38.6		83.2	17.4	320	2.80	1.28	
1330	23.9		7.56		5591		4.09		142.5		3.4		320	2.80	2.24	
1333	23.9	<1.0%	7.57	0.02	5588	<1.0%	4.00	2.25%	151.1	7.3	2.0	<10	320	2.80	3.20	
1336	23.7		7.58		5570		4.00		154.8		9.8		320	2.80	4.16	

Stop Purge Time: 1336	Sample Time: 1345	QA/QC Sample Time(s): —
	Sample ID:	QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary							
3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃
							250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄
							500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

55.02 51.00

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/19/20 Well ID: MW-4
 Field Sampler(s): Dylan Davis
 Transducer Removal Time: _____ Transducer Redeployment Time: _____ General Well Condition: Good - see notes
 Depth to Water (ft): 6.00 Screened Interval Top (ft): N/A Pump Intake Depth (ft): 10.00 ft
 Well Depth (ft): 14.5 Screened/Open Interval Bottom (ft): N/A Well Diameter (in): 4
 Pump/Tubing Type: OED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP
 Dedicated Tubing Present? (Y/N) Y New Dedicated Tubing Placed? (Y/N) N
 Purge Start Time: 0815

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0816	20.7		7.55		5.349		5.57		214.6		39.7		320	6.00	0.32	clear/none
0819	20.8		7.74		5.523		4.96		215.6		7.8		320	6.00	1.28	
0822	20.8		7.21		5.527		4.14		211.4		5.9		320	6.00	2.24	
0825	20.9		7.23		5.530		4.12		205.0		2.8		320	6.00	3.2	
0828	20.8	<1%	7.23	0.0	5.528	<1.0%	3.99	3.2%	201.5	5.0	2.9	<10	320	6.00	4.16	
0831	20.9		7.23		5.531		3.99		200.0		2.8		320	6.00	5.12	

Stop Purge Time: 0831 Sample Time: 9832 QA/QC Sample Time(s): _____
 Sample ID: MW-4-20200519 QA/QC Sample ID(s): _____

Observations/Comments Bee hive in well that was sprayed by grounds crew. Cap was off well and there are dead bees and possibly hive observed on top of water in well.

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/21/20	Well ID: MW-13
Field Sampler(s): Crockett				
Transducer Removal Time: 1239	Transducer Redeployment Time: 1330		General Well Condition: GOOD	
Depth to Water (ft): 35.10	Screened Interval Top (ft): 38		Pump Intake Depth (ft): 43.00	
Well Depth (ft): 42.40 (50)	Screened/Open Interval Bottom (ft): 48		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
Dedicated Tubing Present? (Y/N) <u>N</u>		New Dedicated Tubing Placed? (Y/N) <u>Y</u>		
Purge Start Time: 1255				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1258														35.11		
1300	33.4		7.98		4.952		6.66		146.4		19.18			35.11	0.5	N/N
1305	28.0		7.24		4.978		6.51		142.4		18.67		100	35.11	1.0	N/N
1310	27.5		7.20		4.973		6.55		156.7		17.47		100	35.11	1.5	N/N
1315	27.5		7.20		4.983		6.57		164.0		18.63		100	35.11	2.0	N/N
1320	27.5		7.19		4.974		6.61		168.5		18.71		100	35.11	2.5	N/N
1323	27.7		7.19		4.957		6.59		170.4		13.72		100	35.11	2.8	N/N
1326	27.6		7.19		4.967		6.55		171.7		10.94		100	35.11	3.1	N/N
1329	27.6		7.19		4.980		6.64		174.3		14.37		100	35.11	3.4	N/N
1332	28.0		7.19		4.974		6.60		175.7		16.98		100	35.11	3.7	N/N
1335	27.9		7.19		4.982		6.63		177.1		9.30		100	35.11	4.0	N/N
1338	27.7		7.20		4.982		6.64		178.4		9.86		100	35.11	4.3	N/N
1341	27.8		7.20		4.961		6.68		179.4		10.79		100	35.11	4.6	N/N
1344	27.6		7.20		4.985		6.61		180.1		12.49		100	35.11	4.9	N/N
1347	27.5		7.20		4.988		6.54		180.1		13.88		100	35.11	5.2	N/N

Stop Purge Time: 1401	Sample Time: 1405	QA/QC Sample Time(s): 1405
	Sample ID: MW-13-20200521	QA/QC Sample ID(s): MW-13-20200521-FD19

Observations/Comments

Bottle Set Summary											
	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H2SO4	2	250 mL poly w/HNO3		250 mL Amber Glass w/H3PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/21/20 Well ID: MW-13

Field Sampler(s): *Crossett*

Transducer Removal Time: Transducer Redeployment Time: General Well Condition:

Depth to Water (ft): Screened Interval Top (ft): Pump Intake Depth (ft):

Well Depth (ft): Screened/Open Interval Bottom (ft): Well Diameter (in):

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

___ Dedicated Tubing Present? (Y/N) ___ New Dedicated Tubing Placed? (Y/N)

Purge Start Time:

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1350	27.5		7.20		4.968		6.58		180.6		16.54		100	35.11	5.5	N/N
1353	27.5		7.19		4.964		6.74		180.5		6.58		100	35.11	5.8	N/N
1356	27.9		7.20		4.978		6.83		180.9		5.75		100	35.11	6.1	N/N
1359	28.0	1.8%	7.21	0.02	4.969	0.3%	6.87	1.9%	181.0	0.5	5.60	<10	100	35.11	6.4	N/N

Stop Purge Time: 1401 Sample Time: 1405 QA/QC Sample Time(s): 1405

Sample ID: MW-13-20200521 QA/QC Sample ID(s): MW-13-20200521-F9D19

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
125 mL w/EDA	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



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LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jessa Bunkers	Task No: H02	Date: 5/14/20	Well ID: MW-16
Field Sampler(s): Dylan Davis				
Transducer Removal Time: —	Transducer Redeployment Time: —	General Well Condition: Good - no rocks		
Depth to Water (ft): 36.00	Screened Interval Top (ft): 27.3	Pump Intake Depth (ft): 39.5		
Well Depth (ft): 42.85	Screened/Open Interval Bottom (ft): 42.3	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1033				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1034	27.0		7.05		17.946		2.10		93.8		23.6		240	32.10	0.24	NA / NA
1037	26.6		7.02		17.916		1.1		96.2		22.4		240	32.10	1.44	" / "
1040	26.5		7.02		17.784		0.87		97.1		18.9		240	32.10	2.64	" / "
1043	26.5		7.01		17.751		0.73		97.1		16.2		246	32.10	3.84	" / "
1046	26.5		7.01		17.762		0.60		93.3		8.9		240	32.10	5.04	" / "
1049	26.3		7.01		17.693		0.56		92.1		7.4		240	32.10	6.24	" / "
1052	26.3	<1.0%	7.00	<1.0%	17.690	<1.0%	0.53	8.9%	91.8	0.5	6.0	2.4	246	32.10	7.44	" / "
1055	26.2		7.00		17.655		0.51		91.6		5.0		246	32.10	8.64	N/A / N/A

Stop Purge Time: 1056	Sample Time: 1100	QA/QC Sample Time(s): —
	Sample ID: MW-16-20200514	QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary		125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	3x VOA w/HCl	1				
1	125 mL w/EDA	1	1			

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/21/20	Well ID: MW-20
Field Sampler(s): <u>Crockett</u>				
Transducer Removal Time: <u>0959</u>	Transducer Redeployment Time: <u>1130</u>	General Well Condition: <u>GOOD</u>		
Depth to Water (ft): <u>32.66</u>	Screened Interval Top (ft): <u>50</u>	Pump Intake Depth (ft): <u>57.5</u>		
Well Depth (ft): <u>67.35</u> (<u>65</u>)	Screened/Open Interval Bottom (ft): <u>65</u>	Well Diameter (in): <u>2</u>		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1023

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1024														32.72		
1030	25.9		7.37		5.563		2.54		105.1		38.97		90	32.70	0.63	N/N
1035	26.6		7.36		5.579		1.80		73.8		36.40		90	32.70	1.08	N/N
1040	26.7		7.36		5.583		1.53		63.4		37.97		90	32.70	1.53	N/N
1045	26.5		7.37		5.572		1.44		54.6		44.08		90	32.70	1.98	N/N
1050	26.5		7.37		5.558		1.37		51.4		38.49		90	32.70	2.43	N/N
1053	26.4		7.37		5.567		1.34		49.0		38.73		90	32.70	2.70	N/N
1056	26.6	0.8%	7.37	0	5.564	0.2%	1.30	5.4%	48.2	3.2	41.98	8%	90	32.70	2.97	N/N

Stop Purge Time: <u>1058</u>	Sample Time: <u>1100</u>	QA/QC Sample Time(s): <u>—</u>
	Sample ID: <u>MW-20-20200521</u>	QA/QC Sample ID(s): <u>—</u>

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/21/20 Well ID: MW-25

Field Sampler(s): J. Bunkers

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good

Depth to Water (ft): 39.21 Screened Interval Top (ft): 38 Pump Intake Depth (ft): 40.30

Well Depth (ft): 53 Screened/Open Interval Bottom (ft): 53 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1544

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1547	27.9		11.31		440.3		4.43		120.4		117.4		300	34.25		clear/none
1550	27.2		8.50		438.5		4.54		118.2		99.6		"	"		"
1553	27.1	} <1% }	7.90	} 0.07 }	438.8	} <1% }	4.48	} <1% }	94.4	} 4.9 }	93.0	} 3% }	"	"		"
1556	27.0		7.86		438.7		4.48		92.2		90.7		"	"		
1559	27.0		7.83		438.7		4.47		89.5		91.5		"	"	5.1	

Stop Purge Time: 1600 Sample Time: 1605 QA/QC Sample Time(s): —

Sample ID: MW-25-20200521 QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 05/06/20 Well ID: MW-K4

Field Sampler(s): Dylan Davis

Transducer Removal Time: N/A Transducer Redeployment Time: N/A General Well Condition: Good

Depth to Water (ft): 31.0 Screened Interval Top (ft): 9 Pump Intake Depth (ft): 38.0

Well Depth (ft): 44.9 Screened/Open Interval Bottom (ft): 49.5 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decom. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0856

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0859	26.2		7.24		4.923		4.53		197.6		277.3		320	25.11	0.32	
0904	26.1		7.23		4.931		4.58		177.0		151.8		320	25.11	1.6	
0909	26.1		7.23		4.945		4.47		162.8		115		320	25.11	2.88	
0914	26.1		7.21		4.962		4.15		146.3		67.8		320	25.11	4.16	
0917	26.2		7.21		4.978		3.98		139.9		53.1		320	25.11	5.44	
0920	26.1		7.20		4.981		3.86		136.1		46.6		320	25.11	6.72	
0923	26.2		7.20		4.984		3.83		131.0		40.7		320	25.11	8.00	
0926	26.2	0.0	7.20	0.0	4.986	<1.0%	3.82	<1.0%	129.9	2.7	39.8	3.82	320	25.11	9.28	
0929	26.2		7.20		4.985		3.82		128.3		39.2		320	25.11	10.56	

Stop Purge Time: 0930 Sample Time: 0931 QA/QC Sample Time(s): N/A

Sample ID: MW-K4-20200506 QA/QC Sample ID(s): N/A

Observations/Comments Bottom of screen listed as 49.0 ft. Total well depth is 44.9 ft.

Bottle Set Summary

	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2		1				
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/3/20	Well ID: MW-K5
Field Sampler(s): <i>A. Anderson</i>				
Transducer Removal Time: 1245	Transducer Redeployment Time: 1345		General Well Condition: <i>good</i>	
Depth to Water (ft): 27.03	Screened Interval Top (ft): 31.8		Pump Intake Depth (ft): 38.5	
Well Depth (ft): 45.13	Screened/Open Interval Bottom (ft): 49.3		Well Diameter (in): 2'	
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE		GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1300

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1301	26.2		7.02		5.256		2.03		312.1		42.1		200	27.03	0.2	Am/none
1306	25.8		7.00		5.588		1.87		311.3		257.0		200	27.03	1.2	" "
1311	25.5		7.02		5.330		1.84		310.7		189.7		300	27.03	2.7	" "
1316	25.6		7.03		5.467		1.84		310.5		42.7		300	27.03	4.2	" "
1319	25.6		7.03		5.459		1.83		310.6		31.4		300	27.03	5.15	" "
1322	25.4		7.03		5.430		1.83		310.9		21.9		300	27.03	6.0	" "
1325	25.7		7.03		5.451		1.79		311.2		12.7		300	27.03	6.9	" "
1328	23.6		7.03		5.453		1.79		311.3		15.5		200	27.03	7.8	" "
1331	23.6		7.03		5.456		1.75		311.5		15.0		300	27.03	8.7	" "
1334	25.6		7.03		5.490		1.77		311.6		14.4		300	27.03	9.6	" "

Stop Purge Time: 1335	Sample Time: 1336	QA/QC Sample Time(s): NA
	Sample ID: MW-K5-20200505	QA/QC Sample ID(s): NA

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/19/20	Well ID: NERT3.3551
Field Sampler(s): Dylan Davis				
Transducer Removal Time: 1130	Transducer Redeployment Time: 1311		General Well Condition: Great	
Depth to Water (ft): 17.30	Screened Interval Top (ft): 35		Pump Intake Depth (ft): 45.00 ft	
Well Depth (ft): 55.50	Screened/Open Interval Bottom (ft): 55		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
N Dedicated Tubing Present? (Y/N)		Y New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1219

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1220	26.7		9.60		10.761		4.10		5.3		96.7		260	17.35	0.26	Clear/none
1225	26.4		8.14		10.684		1.98		-37.3		87.0		280	17.42	1.56	
1228	26.3		8.05		10.652		0.98		-51.5		62.8		260	17.42	2.34	
1231	26.5		8.01		10.735		0.69		-64.3		52.2		260	17.42	3.12	
1233	26.6		8.01		10.744		0.52		-75.8		48.6		260	17.42	3.9	
1236	26.5		8.01		10.733		0.48		-80.5		41.1		260	17.42	4.68	
1234	26.6	0.0	8.01	0.0	10.754	<1.0%	0.45	<0.5	-85.7	7.2	43.8	9%	260	17.42	5.46	
1242	26.5		8.01		10.731		0.44		-87.7		40.3		260	17.42	6.24	

Stop Purge Time: 1242	Sample Time: 1245	QA/QC Sample Time(s):
	Sample ID: NERT3.3551-20200519	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/19/20 Well ID: NERT3.4051

Field Sampler(s): Dylan Davis

Transducer Removal Time: 1320 Transducer Redeployment Time: 1400 General Well Condition: Great

Depth to Water (ft): 38.48 Screened Interval Top (ft): 35 Pump Intake Depth (ft): 45 ft

Well Depth (ft): 55.0 Screened/Open Interval Bottom (ft): 55 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1336

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Circ. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1337	26.1		8.10		13.608		1.62		123.1		8.1		280	38.48	0.28	clear/odor
1340	25.8		7.88		13.507		0.83		91.5		7.1		280	38.48	1.12	
1343	25.7		7.79		13.469		0.62		63.2		7.0		280	38.48	1.96	
1346	25.8		7.77		13.456		0.59		52.6		6.6		280	38.48	2.8	
1349	25.7		7.76		13.449		0.54		48.6		7.2		280	38.48	3.64	
1352	25.7	0.0	7.76	0.0	13.431	<1.0%	0.51	8%	40.6	9.4	7.2	<10	280	38.48	4.48	
1355	25.7		7.76		13.420		0.50		39.2		7.5		280	38.48	5.32	

Stop Purge Time: 1355 Sample Time: 1400 QA/QC Sample Time(s):

Sample ID: NERT3.4051-20200519 QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Purge Data: NERT3.58N1

sys_loc_code	measurement_date	Measurement_time	Parameter		Temp.		pH		Conductivity		DO		ORP		Turbidity		Purge Rate mL/min	Depth to Water ft	Cum. Vol. Purged mL	Color/Odor none
			Parameter Unit	Stability	C	± 3%	SU	± 0.1	mS/cm	± 3%	mg/L	± 10% or <0.5	mV	± 10	NTU	± 10% or <10				
NERT3.58N1	5/15/20 11:00	11:00:00	26.6		7.24		8.335		3.74		383.1		48.1		300	39.60	900	None/None		
NERT3.58N1	5/15/20 11:03	11:03:00	25.3	-5%	7.03	0.2	8.668	4%	1.41	-62%	355.5	28	25.8	-46%	300	40.00	1800	None/None		
NERT3.58N1	5/15/20 11:06	11:06:00	25.1	-1%	7.00	0.0	8.638	0%	1.19	-16%	335.4	20	24.6	-5%	300	40.00	2700	None/None		
NERT3.58N1	5/15/20 11:09	11:09:00	25.2	0%	6.99	0.0	8.636	0%	1.12	-6%	319.7	16	23.6	-4%	300	40.00	3600	None/None		
NERT3.58N1	5/15/20 11:12	11:12:00	25.2	0%	7.00	0.0	8.656	0%	1.07	-4%	311.6	8	22.7	-4%	300	40.00	4500	None/None		
NERT3.58N1	5/15/20 11:15	11:15:00	25.4	1%	7.00	0.0	8.679	0%	1.14	7%	309.3	2	20.8	-8%	180	40.00	5040	None/None		
NERT3.58N1	5/15/20 11:18	11:18:00	25.4	0%	7.00	0.0	8.674	0%	1.14	0%	305.1	4	18.8	-10%	180	40.00	5580	None/None		
NERT3.58N1	5/15/20 11:21	11:21:00	25.7	1%	7.01	0.0	8.719	1%	1.15	1%	295.6	10	15.8	-16%	180	40.00	6120	None/None		
NERT3.58N1	5/15/20 11:24	11:24:00	25.6	0%	7.02	0.0	8.723	0%	1.15	0%	283.7	12	14.0	-11%	180	40.00	6660	None/None		
NERT3.58N1	5/15/20 11:27	11:27:00	25.6	0%	7.02	0.0	8.720	0%	1.12	-3%	276.1	8	12.5	-11%	180	40.00	7200	None/None		
NERT3.58N1	5/15/20 11:30	11:30:00	25.9	1%	7.01	0.0	8.766	1%	1.12	0%	271.3	5	11.9	-5%	180	40.00	7740	None/None		
NERT3.58N1	5/15/20 11:33	11:33:00	25.8	0%	7.02	0.0	8.751	0%	1.11	-1%	265.0	6	12.3	3%	180	40.00	8280	None/None		
NERT3.58N1	5/15/20 11:36	11:36:00	25.8	0%	7.02	0.0	8.762	0%	1.12	1%	259.6	5	11.8	-4%	180	40.00	8820	None/None		
NERT3.58N1	5/15/20 11:39	11:39:00	26.1	1%	7.02	0.0	8.813	1%	1.10	-2%	255.2	4	11.0	-7%	180	40.00	9360	None/None		

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-20-19 Well ID: NERT3.5851

Field Sampler(s): Ron Phillips

Transducer Removal Time: 0720 Transducer Redeployment Time: 0838 General Well Condition: Good

Depth to Water (ft): 34.63 Screened Interval Top (ft): 35 Pump Intake Depth (ft): 45'

Well Depth (ft): 55.5 350' Screened/Open Interval Bottom (ft): 35 Well Diameter (in): 4"

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP Triple rinse

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N) - Removed after sampling for offsite storage

Purge Start Time: 0735 - then needed to fix an air leak. New purge start time 0750

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0752	23.0		6.97		3.44		1.98		184.8		19.6		270	34.63		Clear/NO
0756	23.3		6.96		3.443		1.83		186.4		16.6		300	34.64		
0801	23.3		6.96		3.449		1.68		189.6		12.8		300	34.64		
0805	23.3		6.96		3.453		1.61		190.6		10.4		300	34.64		
0810	23.3		6.96		3.456		1.54		191.5		10.3		300	34.64		
0815	23.3		6.96		3.461		1.47		193.0		16.2		300	34.64		
0819	23.3	NO change	6.97	0.01	3.462	<1%	1.44	7%	194.0	2.5 mV	10.1	2%	300	34.64	9 1/2	↓

Stop Purge Time: 0820 Sample Time: 0823 20200520 QA/QC Sample Time(s): 0823

Sample ID: NERT3.5851-20200520 QA/QC Sample ID(s): NERT3.5851-20200520-FD18

Observations/Comments: pump settings: 11 s Refill, 9 sec discharge, 40 psi

Bottle Set Summary

	3x VOA w/HCl	<u>2</u>	125 mL Plastic sterile		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
<u>2</u>	125 mL w/EDA	<u>2</u>	250 mL Plastic		250 mL w/H ₂ SO ₄	<u>2</u>	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 7 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/18/20 Well ID: NERT3.G011

Field Sampler(s): J. Bunkers

Transducer Removal Time: 1202 Transducer Redeployment Time: 12:17 1310 General Well Condition: Good

Depth to Water (ft): 37.96 Screened Interval Top (ft): 32 Pump Intake Depth (ft): 44.73

Well Depth (ft): 51.50 measured Screened/Open Interval Bottom (ft): 52 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPELDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1217 1225

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1231	28.4		7.33		7.309		7.26		101.8		215.9		300	38.00		brown frame
1234	28.0		7.24		7.059		7.44		118.2		249.0		"	"		"
1237	28.2		7.23		7.107		7.27		129.1		175.0		"	"		"
1240	28.3		7.23		6.926		7.39		141.2		635.1		"	"		"
1243	27.4		7.28		6.745		7.85		145.0		415.2		"	"		"
1246	27.8		7.21		6.482		7.71		147.5		305.5		"	"		"
1249	28.0	<1%	7.20	0.01	6.470	3%	7.69	1%	148.2	1.0	302.3	2%	"	"		"
1252	28.0		7.20		6.467	<1%	7.68		148.5		300.2		"	"	8.7	"

Stop Purge Time: 1253 Sample Time: 1300 QA/QC Sample Time(s): -

Sample ID: NERT3.G011-20200518 QA/QC Sample ID(s): -

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-20-20 Well ID: NERT3.60S1

Field Sampler(s): Ron Phillips

Transducer Removal Time: 0900 Transducer Redeployment Time: 10:08 General Well Condition: Good

Depth to Water (ft): 38.38 Screened Interval Top (ft): 35 Pump Intake Depth (ft): 46.5

Well Depth (ft): 55.30 Screened/Open Interval Bottom (ft): 55 Well Diameter (in): 4"

Pump/Tubing Type: OED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓ Triple Rinse

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N) - Removed after sampling

Purge Start Time: 0925

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0930	22.6		7.04		3.228		1.45		186.6		4.2		300	38.38	38.3	Clear/NO
0935	22.6		7.08		3.240		1.26		189.0		3.3		300	38.38		
0940	22.6		7.09		3.218		1.31		190.1		3.2		300	38.38		
0943	22.6		7.08		3.214		1.37		191.2		2.7		300	38.38		
0948	22.6		7.08		3.210		1.35		192.4		2.6		300	38.39		
0953	22.6	NO change	7.08	NO change	3.214	±1%	1.33	3%	193.4	2.2 mV	2.6	All <10 NTU	300	38.39	8	

Stop Purge Time: 0954 Sample Time: 09:57 QA/QC Sample Time(s): NA

Sample ID: NERT3.60S1 20200520 QA/QC Sample ID(s): NA

Observations/Comments: Pump settings: Refill 11 sec, disch 9 sec, pressure 35 psi

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic <u>sterile</u>	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/20/20	Well ID: NERT3.6351
Field Sampler(s): Dylan Davis				
Transducer Removal Time: 0710	Transducer Redeployment Time: 0801	General Well Condition: Great		
Depth to Water (ft): 18.20	Screened Interval Top (ft): 15	Pump Intake Depth (ft): 27ft		
Well Depth (ft): 35.25ft	Screened/Open Interval Bottom (ft): 30	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 0724				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0725	22.6		7.56		4.106		3.98		198.3		21.7		400	18.20	0.40	clear/none
0728	22.7		7.03		4.144		1.33		205.3		17.1		400	18.20	1.6	
0731	22.8		6.98		4.145		1.16		202.9		13.9		400	18.20	2.8	
0734	22.8		6.96		4.144		1.09		197.3		9.3		400		4.0	
0737	22.8	0.0	6.95	0.01	4.142	<1.0%	1.06	3.8%	192.5	9.2	6.0	<10	400		5.2	
0740	22.8		6.95		4.144		1.05		188.1		5.7		400		6.4	

Stop Purge Time: 0740	Sample Time: 0740	QA/QC Sample Time(s): —
	Sample ID: NERT3.6351-20200520	QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary							
3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄	
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass	

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/20/20 Well ID: NERT3.8051

Field Sampler(s): Dylan Davis

Transducer Removal Time: 0830 Transducer Redeployment Time: not present when redeployed General Well Condition: Great

Depth to Water (ft): 9.28 Screened Interval Top (ft): 10 Pump Intake Depth (ft): 15.0 ft

Well Depth (ft): 19.60 Screened/Open Interval Bottom (ft): 20 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

N Dedicated Tubing Present? (Y/N)

Y New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0835

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0837	22.8		7.81		4.119		2.01		178.8		30.9		400	19.60	1.6	clear/none
0840	22.2		7.37		4.076		0.95		174.1		2.9		400	9.28	2.8	
0843	22.2		7.22		4.068		0.82		169.2		5.6		400	9.28	4.0	
0846	22.1		7.16		4.068		0.76		164.3		4.0		400	9.28	5.2	
0849	22.1	0.0	7.14	0.03	4.065	<1.0%	0.73	8.5%	160.5	6.5	3.6	<10	400	9.28	6.4	
0852	22.1		7.13		4.068		0.70		157.8		3.4		400	9.28	7.6	

Stop Purge Time: 0852 Sample Time: 0900 QA/QC Sample Time(s):

Sample ID: NERT3.8051-20200520 QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/20/20	Well ID: NERT3.9851
Field Sampler(s): LA Dylan Davis				
Transducer Removal Time: 1026	Transducer Redeployment Time: 1110	General Well Condition: Great		
Depth to Water (ft): 10.52	Screened Interval Top (ft): 15	Pump Intake Depth (ft): 25 ft		
Well Depth (ft): 35.00	Screened/Open Interval Bottom (ft): 35	Well Diameter (in): 44		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1030				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1053	23.5		7.84		6.148		3.40		-4.9		55.5		400	10.52	0.4	Clear/none
1076	22.4		7.44		6.340		0.82		-23.9		60.8		400	10.52	1.6	|
1039	22.2		7.21		6.308		0.55		-29.8		56.4		400	10.52	2.8	
1042	22.1		7.15		6.299		0.49		-31.8		53.3		400	10.52	4.0	
1045	22.2	<1.0%	7.11	0.06	6.307	<1.0%	0.44	<0.5	-33.5	4.8	49.9	10%	400	10.52	5.2	
1048	22.2		7.09		6.305		0.42		-35.0		48.2		400	10.52	6.4	

Stop Purge Time: 1049	Sample Time: 1109	QA/QC Sample Time(s):
	Sample ID: NERT3.9851-20200520	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HQ2	Date: 5/18/20	Well ID: NERT4.21N1
Field Sampler(s): J. Bunkers				
Transducer Removal Time: 1320	Transducer Redeployment Time: 1350	General Well Condition: Good		
Depth to Water (ft): 34.91	Screened Interval Top (ft): 45	Pump Intake Depth (ft): 50		
Well Depth (ft): 54.70	Screened/Open Interval Bottom (ft): 55	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1526

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1329	26.9		7.40		4.365		4.31		129.4		34.7		180	34.91		clear/none
1332	26.3		7.30		4.350		4.00		130.8		9.71		"	"		"
1335	25.9	} 1%	7.25	} 0.01	4.336	} <1%	3.88	} 1%	132.7	} 2.9	9.82	} <10	"	"		"
1338	25.7		7.24		4.330		3.86		135.2		9.83		"	"		
1341	25.9		7.24		4.330		3.83		135.6		9.21		"	"	3.6	"

Stop Purge Time: 1342	Sample Time: 1345	QA/QC Sample Time(s): —
	Sample ID: NERT4.21N1-20200518	QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/19/20 Well ID: NERT4.38N1

Field Sampler(s): ORCAH

Transducer Removal Time: 0750 Transducer Redeployment Time: 0845 General Well Condition: GOOD

Depth to Water (ft): 32.36 Screened Interval Top (ft): 30 Pump Intake Depth (ft): 36

Well Depth (ft): 39.5 Screened/Open Interval Bottom (ft): 40 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

N Dedicated Tubing Present? (Y/N) Y New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0812

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0815	21.8		6.86		3.631		5.24		97.6		14.30		300	32.36	0.9	N/A
0820	22.0		6.86		3.634		5.02		93.2		13.71		300	32.36	2.4	N/A
0825	22.0		6.88		3.635		4.98		97.2		12.21		300	32.36	3.9	N/A
0830	22.1		6.89		3.636		4.89		100.5		11.89		300	32.36	5.4	N/A
0835	22.2	1%	6.89	0.01	3.636	0.03%	4.83	3.1%	101.1	3.9	11.99	3%	300	32.36	6.9	N/A

Stop Purge Time: 0836 Sample Time: 0840 QA/QC Sample Time(s): N/A

Sample ID: NERT4.38N1-20200519 QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/30/20 Well ID: ~~NERT~~ 4.5151

Field Sampler(s): J. Masters

Transducer Removal Time: 0714 Transducer Redeployment Time: 0748 General Well Condition: Good

Depth to Water (ft): 25.93 Screened Interval Top (ft): 40 Pump Intake Depth (ft): 45

Well Depth (ft): 57.5 Screened/Open Interval Bottom (ft): 50 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0723

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0726	22.6		7.13		5.001		5.85		172.8		5.18		90	25.93	.27	clear/none
0729	22.9		7.13		4.987		5.79		172.4		3.61		90	25.93	.54	"
0732	23.0		7.13		4.993		5.73		172.3		3.32		90	25.93	.81	"
0735	23.0		7.13		5.07		5.66		171.8		2.57		90	25.93	1.08	"
0738	23.0	0	7.12	0.01	5.03	0.9%	5.58	30%	171.2	1 mV	2.58	<10 NTU	90	25.93	1.35	"

Stop Purge Time: 0739 Sample Time: 0740 QA/QC Sample Time(s): n/a

Sample ID: NERT 4.5151-20200520 QA/QC Sample ID(s): n/a

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
125 mL w/EDA	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: NERT 4.64 NI
Field Sampler(s): <i>Crickett</i>				
Transducer Removal Time: 1225	Transducer Redeployment Time: 1300	General Well Condition: 5000		
Depth to Water (ft): 23.06	Screened Interval Top (ft): 25	Pump Intake Depth (ft): 35		
Well Depth (ft): 45.05	Screened/Open Interval Bottom (ft): 45	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		

Dedicated Tubing Present? (Y/N) *N* New Dedicated Tubing Placed? (Y/N) *Y*
Purge Start Time: 1240

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1241														23.06		
1243	24.7		7.32		2.976		0.92		82.9		1.08		270	23.06	0.81	N/N
1246	23.7		7.23		2.955		0.46		87.0		0.69		270	23.06	1.62	N/N
1249	23.6		7.21		2.951		0.39		88.2		0.70		270	23.06	2.43	N/N
1252	23.6	0.4%	7.20	0.03	2.954	0.1%	0.33	<0.5	88.2	1.2	1.32	<10 NTU	270	23.06	3.24	N/N

Stop Purge Time: 1254 Sample Time: 1300 QA/QC Sample Time(s): NA
Sample ID: NERT4.64NI-20200515 QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary										
3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/20/2020 Well ID: NERT4.6451

Field Sampler(s): James Runyon

Transducer Removal Time: 0722 Transducer Redeployment Time: 0840 General Well Condition: Good, pink dye on casing & concrete inside the surface completion

Depth to Water (ft): 27.04 Screened Interval Top (ft): 35 Pump Intake Depth (ft): 45

Well Depth (ft): 55.3 Screened/Open Interval Bottom (ft): 55 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0754

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0804	22.3		7.20		5.269		4.70		200.1		2.05		180	27.05		clear/une
0807	22.5	<2%	7.13	<0.1	5.342	<3%	4.51	<1%	199.1	<4 mV	2.07	<10 NTU	"	"		"
0810	22.6		7.14		5.338		4.47		192.0		2.08		"	"	3.4	"

Stop Purge Time: 0813 Sample Time: 0815 QA/QC Sample Time(s): N/A
Sample ID: NERT4.6451-20200520 QA/QC Sample ID(s): N/A

Observations/Comments: Pink dye on casing & concrete within the surface completion. Pink dye on WLM tape after taking initial DTW/D

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: NERT 4.70 NI
Field Sampler(s): <u>Crockett</u>				
Transducer Removal Time: <u>0750</u>	Transducer Redeployment Time:		General Well Condition: <u>GOOD</u>	
Depth to Water (ft): <u>24.90</u>	Screened Interval Top (ft): <u>25</u>		Pump Intake Depth (ft): <u>35</u>	
Well Depth (ft): <u>45.0</u> (R2)	Screened/Open Interval Bottom (ft): <u>45</u>		Well Diameter (in): <u>4</u>	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
Dedicated Tubing Present? (Y/N) <u>N</u>		New Dedicated Tubing Placed? (Y/N) <u>Y</u>		

Purge Start Time: 0813

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0817	23.0		7.37		2.319		1.04		121.0		5.38		300	24.92	1.2	N/N
0820	22.9		7.31		2.324		0.74		110.2		4.08		300	24.92	2.1	N/N
0823	23.0		7.30		2.328		0.69		104.4		3.94		300	24.92	3.0	N/N
0826	23.0		7.30		2.322		0.79		97.2		4.71		300	24.92	3.9	N/N
0829	23.0		7.30		2.323		0.73		91.9		4.70		300	24.92	4.8	N/N
0832	23.0		7.30		2.320		0.83		89.3		5.78		300	24.92	5.7	N/N
0835	23.1		7.30		2.320		0.78		88.0		5.41		300	24.92	6.6	N/N
0838	23.1	0.4%	7.30	0	2.312	0.3%	0.85	5.1%	87.9	1.4	4.51	<10	300	24.92	7.5	N/N

Stop Purge Time: <u>0839</u>	Sample Time: <u>0845</u>	QA/QC Sample Time(s): <u>-</u>
	Sample ID: <u>NERT 4.70 NI-26200518</u>	QA/QC Sample ID(s): <u>-</u>

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/18/20	Well ID: NERT 4.71 N1
Field Sampler(s): <u>Crockett</u>				
Transducer Removal Time: 0916	Transducer Redeployment Time: 1020	General Well Condition: <u>Good</u>		
Depth to Water (ft): 27.81	Screened Interval Top (ft): 25	Pump Intake Depth (ft): 36		
Well Depth (ft): 45.25 (90)	Screened/Open Interval Bottom (ft): 45	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0933				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0936	23.0		7.47		2.678		1.03		145.3		2.35		300	27.82	0.9	N/N
0939	22.8		7.35		2.678		0.64		142.3		2.50		300	27.82	1.8	N/N
0942	22.8		7.31		2.671		0.44		130.4		3.08		300	27.83	2.7	N/N
0945	22.8		7.30		2.652		0.47		110.8		3.12		300	27.83	3.6	N/N
0949	22.7		7.30		2.592		0.45		95.6		3.35		300	27.83	4.8	N/N
0952	22.7		7.29		2.562		0.41		86.7		3.49		300	27.83	5.7	N/N
0955	22.7		7.29		2.496		0.42		76.4		3.12		300	27.83	6.6	N/N
1000	22.7		7.29		2.448		0.41		74.1		2.38		300	27.83	8.1	N/N
1003	22.6	0.4%	7.28	0.01	2.403		0.43		74.2		1.97		300	27.83	9.0	N/N
1006	22.7	0.4%	7.28	0.01	2.391	2.4%	0.38	<0.5	76.0	1.8	2.17	<10	300	27.83	9.7	N/N

Stop Purge Time: 1007	Sample Time: 1010	QA/QC Sample Time(s): N/A
	Sample ID: NERT4.71N1-20200518	QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/20/20 Well ID: NERT4.7151

Field Sampler(s): Andrew Meyer

Transducer Removal Time: 0715 Transducer Redeployment Time: 0810 General Well Condition: good

Depth to Water (ft): 28.21 Screened Interval Top (ft): 40 Pump Intake Depth (ft): 45

Well Depth (ft): 46.72 Screened/Open Interval Bottom (ft): 50 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposit: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0727

Time	Temp. (C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mv)		Turbidity (NTU)		Purge Rate (gpm/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/ODOR
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0729	22.0		7.10		4.402		5.72		118.4		23.0		200	46.72	0.4	white/none
0734	22.5		7.12		4.440		4.75		132.5		17.6		200	46.72	1.4	" "
0739	22.6		7.11		4.450		4.72		136.8		15.8		300	46.72	2.9	" "
0742	22.6		7.10		4.670		4.64		140.8		12.1		300	46.72	3.8	none/none
0745	22.7		7.10		4.461		4.61		143.9		10.6		300	46.72	4.7	" "
0748	22.8	-1%	7.09	} no change	4.471	} -1%	4.59	} -1%	147.4	} 3.5	11.9	} 6.3%	300	46.72	5.6	" "
0751	22.7		7.04		4.462		4.58		149.2		11.7		300	46.72	6.5	" "
0754	22.7		7.09		4.462		4.57		150.9		11.2		300	46.72	7.4	" "

Stop Purge Time: 0755 Sample Time: 0800 QA/QC Sample Time(s): NA

Sample ID: NERT4.7151-20200520 QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/20/20 Well ID: NERT4.7152

Field Sampler(s): A. Morgan

Transducer Removal Time: 0840 Transducer Redeployment Time: 0940 General Well Condition: good

Depth to Water (ft): 27.22 Screened Interval Top (ft): 34 Pump Intake Depth (ft): 44

Well Depth (ft): 56 Screened/Open Interval Bottom (ft): 54 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposit: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0853

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0856	22.5		7.26		3.871		3.90		139.4		47.9		200	27.23	0.6	white/none
0901	22.9		7.02		4.051		3.30		145.5		29.3		200	27.23	1.6	" "
0906	22.9		7.00		4.066		3.19		151.9		27.6		300	27.23	3.1	" "
0911	22.9		7.00		4.064		3.13		154.5		18.6		300	27.23	4.0	" "
0914	22.9	} < 1 %	7.00	} No Change	4.071	} < 1 %	3.08	} 3 %	157.3	} 35 mV	18.9	} 1.6 x	350	27.23	5.05	" "
0917	23.0		7.00		4.082		3.03		159.0		18.7		350	27.23	6.1	" "

Stop Purge Time: 0918 Sample Time: 0920 QA/QC Sample Time(s): NA

Sample ID: NERT4.7152-20200520 QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/20/2020 Well ID: NERT4.9351

Field Sampler(s): Jo Roman

Transducer Removal Time: 0856 Transducer Redeployment Time: 1044 General Well Condition: Good

Depth to Water (ft): 27.49 Screened Interval Top (ft): 45 Pump Intake Depth (ft): 49.8

Well Depth (ft): 54.3 (6ft Bottom) Screened/Open Interval Bottom (ft): 55 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0945

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0958	23.6		7.09		4.126		1.89		173.0		2.57		300	27.51		clear/None
1001	23.6	<1%	7.09	0	4.126	<1%	1.86	<5%	170.8	<10 mV	2.65	<10 NTU	"	"		"
1004	23.7		7.09		4.129		1.83		166.9		2.56		"	"	6	"

Stop Purge Time: 1005 Sample Time: 1010 QA/QC Sample Time(s): 1015

Sample ID: NERT4.9351-20200520 QA/QC Sample ID(s): NERT4.9351-20200520-FB19

Observations/Comments

Bottle Set Summary

	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/20/20	Well ID: NERT 5.11.S1
Field Sampler(s): J. Magrath				
Transducer Removal Time: 0842	Transducer Redeployment Time: 0940	General Well Condition: Good		
Depth to Water (ft): 20.69	Screened Interval Top (ft): 35	Pump Intake Depth (ft): 40		
Well Depth (ft): 90	Screened/Open Interval Bottom (ft): 45	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0850				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0853	23.6		7.13		3.882		1.05		195.5		2.65		180	20.69	0.54	clear/none
0856	23.7		7.13		3.880		0.75		190.5		2.12		180	20.69	1.08	clear/none
0859	23.7		7.12		3.902		0.60		181.9		2.04		180	20.69	1.62	clear/none
0902	23.7		7.12		3.902		0.58		177.8		2.10		180	20.69	2.16	clear/none
0905	23.7	0	7.12	0	3.901	0.1%	0.57	5%	175.2	9mV	2.15	<10 NTU	180	20.69	2.70	clear/none

Stop Purge Time: 0908	Sample Time: 0910	QA/QC Sample Time(s): n/a
	Sample ID: NERT 5.11.S1-20200520	QA/QC Sample ID(s): n/a

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/30/24	Well ID: NERT 5.4951
Field Sampler(s): S. Masters				
Transducer Removal Time: 1009	Transducer Redeployment Time: 1100		General Well Condition: Good	
Depth to Water (ft): 26.45	Screened Interval Top (ft): 30		Pump Intake Depth (ft): 35	
Well Depth (ft): 65	Screened/Open Interval Bottom (ft): 40		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)			<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)	
Purge Start Time: 1018				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1023	21.9		7.50		2.007		0.96		159.9		84.25		240	26.45	1.2	clear/nop
1028	21.6		7.51		1.995		0.71		160.4		46.53		240	26.45	2.4	clear/nop
1033	21.5		7.52		1.995		0.70		163.9		31.83		240	26.45	3.6	clear/nop
1038	21.6		7.51		1.994		0.52		164.5		7.12		240	26.45	4.8	clear/nop
1043	21.6		7.51		1.996		0.50		164.9		3.15		240	26.45	6.0	clear/nop
1048	21.6	0	7.51	0	1.998	0.2%	0.49	5%	165.2	1mV	9.61	<10 NTU	240	26.45	7.2	clear/nop

Stop Purge Time: 1049	Sample Time: 1050	QA/QC Sample Time(s): 1100
Sample ID: NERT 5.4951-20200520		QA/QC Sample ID(s): NERT 5.4951-20200520 - FB 18

Observations/Comments

Bottle Set Summary								
3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/21/2020	Well ID: NERT.S.91S1
Field Sampler(s): James Roman				
Transducer Removal Time: 0934	Transducer Redeployment Time: 1027	General Well Condition: Good		
Depth to Water (ft): 13.30	Screened Interval Top (ft): 40	Pump Intake Depth (ft): 45		
Well Depth (ft): 49.90	Screened/Open Interval Bottom (ft): 50	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		

Purge Start Time: 0950

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1000	23.5		7.18		3.901		0.95		181.0		30.3		250	13.60		clear/None
1003	23.5		7.18		3.898		0.81		166.0		27.3		"	13.65		"
1006	23.5		7.18		3.898		0.75		156.0		25.2		"	"		"
1009	23.5		7.18		3.899		0.70		146.0		23.0		"	"		"
1012	23.5	0	7.18	0	3.898	<1%	0.68	9%	142.4	88	23.4	3%	"	"		"
1015	23.5		7.18		3.894		0.64		137.2		22.8		"	"	6.5	"

Stop Purge Time: 1016	Sample Time: 1018	QA/QC Sample Time(s): N/A
	Sample ID: NERT.S.91S1-2000521	QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/7/20	Well ID: PC-1
Field Sampler(s): J Burkens				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: No well plug		
Depth to Water (ft): 29.53	Screened Interval Top (ft): 15	Pump Intake Depth (ft):		
Well Depth (ft): 30.8 / 30.7 measured	Screened/Open Interval Bottom (ft): 30	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: NA				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
Insufficient Water to Sample																

Stop Purge Time: NA	Sample Time: NA	QA/QC Sample Time(s): NA
	Sample ID: NA	QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HQ2	Date: 5/6/20	Well ID: R-2
Field Sampler(s): <i>A. Deegan</i>	Transducer Redeployment Time: <i>NA</i>		General Well Condition: <i>good</i>	
Transducer Removal Time: <i>NA</i>	Depth to Water (ft): <i>24.13</i>	Screened Interval Top (ft): <i>18.4</i>	Pump Intake Depth (ft): <i>28.8</i>	
Well Depth (ft): <i>39.54</i>	Screened/Open Interval Bottom (ft): <i>33.4</i>		Well Diameter (in): <i>2</i>	
Pump/Tubing Type: OED Bladder Pump & TLPEADPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Page Start Time: *8:08*

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
809	23.3		7.85		3.132		5.16		158.6		37.6		260	24.13	0.26	None/None
814	23.8		7.56		3.269		4.02		169.4		11.9		260	24.13	1.56	" "
819	23.8		7.51		3.326		4.12		176.2		5.5		260	24.13	2.86	" "
822	23.8	} no change	7.49	} <0.1	3.353	} <0.1	4.15	} <0.1	180.4	} 6.8 mV	3.7	} <10 NTU	260	24.13	3.24	" "
825	23.8		7.49		3.356		4.15		183.0		4.1		260	24.13	4.42	" "

Stop Purge Time: <i>0826</i>	Sample Time: <i>0830</i>	QA/QC Sample Time(s):
	Sample ID: <i>R-2-20200506</i>	QA/QC Sample ID(s):

Observations/Comments

DTW verified (~7.5' from horizontal)

Bottle Set Summary

Count	Container	Volume	Material
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic
			500 mL w/H ₂ SO ₄
			500 mL poly w/HNO ₃
			250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄
			250 mL poly w/HNO ₃
			250 mL Amber Glass w/H ₂ PO ₄
			500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bankers Task No: H02 Date: 5/6/20 Well ID: PC-7

Field Sampler(s): J. Logan

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: good

Depth to Water (ft): 31.60

Screened Interval Top (ft): 19.6

Pump Intake Depth (ft): 37

Well Depth (ft): 42.51

Screened/Open Interval Bottom (ft): 44.6

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N)

New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0947

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0948	25.0		7.26		7.724		27.5	6.36	170.3		121.0		200	31.61	0.2	white/none
0955	24.9		7.23		7.760		6.03		172.7		87.0		200	31.61	1.2	" "
0958	24.9		7.23		7.756		5.76		185.6		52.0		300	31.61	2.7	" "
0959	24.9		7.23		7.748		5.62		195.6		38.4		300	31.61	4.2	" "
1006	24.9		7.23		7.748		5.56		196.8		33.3		300	31.61	5.1	" "
1009	25.0	Δ1%	7.23	No Change	7.757	Δ1%	5.51	2%	200.2	5.6 MV	31.0	4.6%	300	31.61	6.0	" "
1012	25.0		7.23		7.754		5.45		202.4		30.6		300	31.61	6.9	" "

Stop Purge Time: 1013

Sample Time: 1015

QA/QC Sample Time(s):

Sample ID: PC-7-20200506

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRATECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/6/20 Well ID: PC-18

Field Sampler(s): Dylan Davis

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good

Depth to Water (ft): 34.80 Screened Interval Top (ft): 11.5 Pump Intake Depth (ft): 40 ft

Well Depth (ft): 46.95 Screened/Open Interval Bottom (ft): 51.5? Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) Y New Dedicated Tubing Placed? (Y/N) Y

Purge Start Time: 1343

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1344	51.3		6.78		6.048		1.88		163.2		9.9		120	34.62	0.12	clear
1347	28.7		6.77		15.978		1.17		160.8		8.1		120	34.62	1.8	|
1350	28.1		6.78		15.796		0.85		155.5		7.8		120	34.62	2.4	|
1353	28.1	0.0	6.77	<1.0%	15.823	0.20%	0.78	8.97	150.5	5.4	6.8	<1.0	120	34.62	3.0	√
1356	28.1		6.77		15.828		0.78		150.1		6.1		120	34.62	3.6	" "

Stop Purge Time: 1356 Sample Time: 1400 QA/QC Sample Time(s): —

Sample ID: PC-18-20200506 QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₃ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/8/20 Well ID: PC-21A

Field Sampler(s): B. Chappas

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): (29.5) 29.83 Screened Interval Top (ft): 16 Pump Intake Depth (ft): 32.0

Well Depth (ft): (34.27) 34.30 Screened/Open Interval Bottom (ft): 36 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1159

Time	Temp. (°C)		pH (pH Units)		Conductivity (ns/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1201	33.0		7.38		25.54		6.95		87.8		16.5		70	29.91		clear/N
1204	29.7		7.23		23.97		6.95		109.3		12.5		70	29.91		clear/N
1207	28.9		7.23		23.67		6.85		122.3		10.8		80	29.91		clear/N
1210	28.4		7.23		23.30		6.83		133.4		7.0		80	30.00		clear/N
1213	28.3	<1°	7.22	0.01	23.30	<1°	6.84	<1°	137.5	8.3	5.7	<10	80	30.00		clear/N
1216	28.3		7.22		23.28		6.83		141.7		5.8		80	30.00	1.3/L	clear/N

Stop Purge Time: 1218 Sample Time: 1200 QA/QC Sample Time(s): NA

Sample ID: PC-21A-20200508 QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

Count	Container/Preservative	Volume	Material	Volume	Material	Volume	Material	Volume	Material
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄
									250 mL Amber Glass w/H ₂ SO ₄
									500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/7/20	Well ID: PC-24
Field Sampler(s): A. Miron				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: good	
Depth to Water (ft): 21.07	Screened Interval Top (ft): 14.5		Pump Intake Depth (ft): 25.3	
Well Depth (ft): 28.77	Screened/Open Interval Bottom (ft): 29.5		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 10:04				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1005	21.2		7.58		2.441		2.02		72.5		25.6		400	21.07	0.4	white / none
1010	20.8		7.47		2.377		6.98		76.3		26.2		400	21.07	2.4	" "
1015	20.8		7.48		2.396		6.97		73.6		33.1		400	21.07	4.4	" "
1020	20.7		7.47		2.358		6.99		72.4		7.0		400	21.07	6.4	none / none
1024	20.7	no change	7.47	no change	2.252	LI	6.98	LI	72.0	0.5	5.8	2.10 NTU	400	21.07	7.6	" "
1027	20.7		7.47	change	2.255		6.98		71.9		4.5		400	21.07	8.8	" "

Stop Purge Time: 10:28	Sample Time: 10:30	QA/QC Sample Time(s):
	Sample ID: PC-24-20200507	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bankers	Task No: HQ2	Date: 5/7/20	Well ID: PC-28
Field Sampler(s): A. Crockett				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A		General Well Condition: GOOD	
Depth to Water (ft): 12.72	(13.14)	Screened Interval Top (ft): 9.6	Pump Intake Depth (ft): 1.6	
Well Depth (ft): 18.85	(19.15)	Screened/Open Interval Bottom (ft): 19.1	Well Diameter (in): 2	
Pump/Tubing Type: CED Bladder Pump & TLPEALDPE		GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> Y		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> Y		
Purge Start Time: 0735				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0737														12.74		N/N
0740	23.6		7.53		6.297		3.53		103.0		46.96		300	12.76	1.50	N/N
0743	23.6		7.47		6.206		3.66		107.3		50.47		300	12.76	2.40	N/N
0748													300	12.78	3.90	N/N
0752	23.4		7.50		5.441		4.87		118.3		61.08		240	12.78	4.86	N/N
0755	23.4		7.50		5.411		4.88		120.5		62.75		240	12.78	5.58	N/N
0758	23.4		7.50		5.361		4.89		123.4		61.99		240	12.78	6.30	N/N
0801	23.4	0	7.50	0	5.305	20%	4.94	1.2%	125.6	5.1	61.10	3.6%	240	12.78	7.02	N/N

Stop Purge Time: 0803	Sample Time: 0805	QA/QC Sample Time(s): 0805
Sample ID: PC-28-20200507	QA/QC Sample ID(s): PC-28-20200507-FD5	

Observations/Comments

Bottle Set Summary

4	3x VOA w/CI	2	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRATECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: PC-31

Field Sampler(s): J. Bunkers

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: good

Depth to Water (ft): 10.85 Screened Interval Top (ft): 14.3 Pump Intake Depth (ft): 28.8

Well Depth (ft): 116.19 Screened/Open Interval Bottom (ft): 49.3 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1122

Volume Purge Rate

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1125	28.4		7.51		5594		1.06		157.2		135.00			300	10.90	clear/none
1128	28.2		7.42		5.575		0.72		156.4		319.20			"	"	"
1131	28.0	2%	7.38	0.04	5.581	<1%	0.45		155.4		317.11			"	"	"
1134	27.9		7.38		5.578		0.43		155.4	0.2	316.81	1%		"	"	"
1137	28.0	<1%	7.37	0.01	5.576	<1%	0.43	2.5	155.2		318.95			"	"	"
															4.5L	

Stop Purge Time: 1138 Sample Time: 1149 QA/QC Sample Time(s): —

Sample ID: PC-31-20200508 QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: PC-40R

Field Sampler(s): J Bunkers

Transducer Removal Time: 0720 Transducer Redeployment Time: 0900 General Well Condition: Good

Depth to Water (ft): 20.15 Screened Interval Top (ft): 15 Pump Intake Depth (ft): 37.0

Well Depth (ft): 55.1 Screened/Open Interval Bottom (ft): 55 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0809

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0812	23.9		6.40		21897		1.80		2582		90.01		300	20.5		clear/none
0815	24.2		6.97		23020		0.65		244.8		23.88		"	"		"
0818	24.3		6.99		23031		0.55		239.4		22.75		"	"		"
0821	24.3	0	7.00	0.01	23026	<1%	0.46	<.5	2338	4.9	16.69	1%	"	"		"
0824	24.3		7.01		23027		0.41		229.5		16.62		"	"		"
0827	24.3		7.01		23028		0.40		228.9		16.56		"	"	6	"

Stop Purge Time: 0826 Sample Time: 0835 QA/QC Sample Time(s): —

Sample ID: PC-40R-20200508 QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-7-26 Well ID: PL-50

Field Sampler(s): Tom Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good. water in vault, but below

Depth to Water (ft): 13.18 Screened Interval Top (ft): 11.5 Pump Intake Depth (ft): 27.3 TOC

Well Depth (ft): 37.30 Screened/Open Interval Bottom (ft): 41.5 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0900

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (gal/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0905	25.3		6.96		16.708		2.56		179.9		124.2		400	13.10		cloudy
0910	25.3		6.91		16.754		2.56		184.2		79.1			13.13		
0915	25.4		6.92		16.759		2.78		189.1		74.2			13.14		
0920	25.4		6.91		16.725		2.88		192.3		88			13.03		
0925	25.5		6.90		16.828		2.68		194.7		84			13.04		
0929	25.4		6.91		16.780		2.89		196.0		46			13.00		
0932	25.4		6.92		16.765		2.95		197.1		44			13.01	9	clearer
0935	25.4		6.92		16.760		2.94		197.9		65			13.03		" "
0938	25.4		6.95		16.818		3.23		204.2		16.9			13.02		clear
0941	25.4		6.94		16.807		3.10		203.4		15.7			13.04		" "
0944	25.4		6.94		16.809		3.09		203.2		15.3			13.05	12 1/2	" "
0947	25.4	No change	6.94	No change	16.807	<1%	3.09	<1%	203.2	0.2 mV	14.4	6.8%	400	13.05	13 1/2	" "

Stop Purge Time: 0948 Sample Time: 0954 QA/QC Sample Time(s): NA

Sample ID: PL-50-20200705 QA/QC Sample ID(s): NA

Observations/Comments: Pump Settings: Refill 11s, Disch 9s, Pressure 45 psi, then 40

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic	250 mL w/H ₂ SO ₄	✓ 250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PC-53
Field Sampler(s): A. Aragon	Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good	
Depth to Water (ft): 23.71	Screened Interval Top (ft): 14.7	Pump Intake Depth (ft): 29.50	28.95	
Well Depth (ft): 35.10	Screened/Open Interval Bottom (ft): 34.2	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 7:01

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (m/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
7:02	22.7	72.7	7.25		4.407		6.84		157.5		3.8		200	23.71	0.2	none/none
7:02	23.4		7.16		4.478		6.61		149.2		5.0		200	23.71	1.2	" "
7:12	23.5		7.16		4.485		6.58		151.9		1.5		200	23.71	2.2	" "
7:15	23.5		7.16		4.485	<1%	6.56	<1%	160.6	9.7mV	1.2		200	23.71	2.8	" "
7:18	23.5		7.16		4.482		6.57		164.6		0.5	<1.0 NTU	200	23.71	3.4	" "

Stop Purge Time: 7:19 Sample Time: 7:20 QA/QC Sample Time(s):
 Sample ID: PC-53-20200506 QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring | Task Manager: Jesse Bunkers | Task No: H02 | Date: 5/8/20 | Well ID: PL-54

Field Sampler(s): B. Whinn
 Transducer Removal Time: NA | Transducer Redeployment Time: NA | General Well Condition: good

Depth to Water (ft): (25.13) 24.59 | Screened Interval Top (ft): 9.3 | Pump Intake Depth (ft): 29.4

Well Depth (ft): (34.69) 34.72 | Screened/Open Interval Bottom (ft): 34.3 | Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE | GW Disposal: GW-11 | Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) | New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1038

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1039	29.0		7.26		12.856		1.62		93.1		22.2		200	24.70		clear/N
1042	28.0		7.26		12.798		1.33		94.6		21.3		200	24.70		clear/N
1045	27.6		7.25		12.713		0.87		100.2		17.7		200	24.70		clear/N
1048	27.6		7.25		12.698		0.82		102.1		13.9		200	24.70		clear/N
1051	27.6		7.25		12.690		0.75		105.1		11.4		200	24.70		clear/N
1054	27.4		7.24		12.666		0.71		106.6		9.8		200	24.70		clear/N
1057	27.5		7.24		12.686	<1%	0.70	3%	108.0	2.3	9.0	<10	200	24.70		clear/N
1100	27.5		7.24		12.676	<1%	0.69	3%	108.9	2.3	8.8	<10			4.4L	

Stop Purge Time: 1102 | Sample Time: 1105 | QA/QC Sample Time(s): NA

Sample ID: PL-54-20300508 | QA/QC Sample ID(s): NA

Observations/Comments: water above TDC, ball water out before removing well cap, well cap in good condition

Bottle Set Summary

2	3x VDA w/HCl	1	125 mL Plastic	1	500 mL Plastic	1	500 mL w/H ₂ SO ₄	1	500 mL poly w/HNO ₃	1	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	1	1250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	1	250 mL Amber Glass w/H ₂ PO ₄	1	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5-6-20 Well ID: PC-55

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: Good

Depth to Water (ft): 33.30

Screened Interval Top (ft): 15.8

Pump Intake Depth (ft): 42.3

Well Depth (ft): 51.30

Screened/Open Interval Bottom (ft): 55.8 (51.3)

Well Diameter (in): 6

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE

GW Disposit: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1058

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
100	28.3		7.19		7.208		1.49		162.4		2.81		255	33.31		
105	26.3		7.16		7.275		0.94		162.7		2.15		255	33.32		
110	26.0	} <1% }	7.17	} 0.01 }	7.270	} <1% }	0.81	} 5% }	161.4	} 0.4 } -mv	2.16	} All } <10 } NTU }		33.32		
115	26.1		7.17		7.262		0.82		161.0		2.10		33.32			
120	26.2		7.18		7.271		0.78		161.1		2.07		33.32	6		

Stop Purge Time: 1121

Sample Time: 1126

QA/QC Sample Time(s): 1144

Sample ID: PC-55-20200506

QA/QC Sample ID(s): PC-55-20200506-FB7

Observations/Comments

Pump settings: Refill 11s, discharge 9s, pressure 45 psi

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic	250 mL w/H ₂ SO ₄	✓	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/5/20 Well ID: PL-56

Field Sampler(s): B. Chiu

Transducer Removal Time: 1003 Transducer Redeployment Time: 1058 General Well Condition: good

Depth to Water (ft): 18.82 Screened Interval Top (ft): 7.9 Pump Intake Depth (ft): 28.4

Well Depth (ft): 61.0 Screened/Open Interval Bottom (ft): 57.9 Well Diameter (in): 2.84

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1020

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1021	26.7		7.34		3.098		4.50		177.9		18.2		300	18.64		clear/N
1026	26.5		7.29		3.044		3.54		176.5		21.5		300	18.64		clear/N
1031	26.7		7.28		3.067		3.57		176.6		34.4		300	18.64		clear/N
1034	26.6	±1%	7.28	0	3.065	±1%	3.51	±1%	176.6	0	43.0	±1%	300	18.64		clear/N
1037	26.6		7.28		3.059		3.52		176.6		40.4		300	18.64	5.1L	clear/N

Stop Purge Time: 1038 Sample Time: 1040 QA/QC Sample Time(s): NA

Sample ID: PL-56-20200505 QA/QC Sample ID(s): NA

Observations/Comments: Removed Aquatroll 200 @ 1003

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkard	Task No: H02	Date: 5/4/20	Well ID: PC-58
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good, Lock on J-Plug		
Depth to Water (ft): 19.31	Screened Interval Top (ft): 10.1	Pump Intake Depth (ft): 27.2		
Well Depth (ft): 38.7	Screened/Open Interval Bottom (ft): 35.1	Well Diameter (in): 2"		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP ✓		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 10:19				

Time	Temp. (°C) 3%		pH (pH Units) 0.1		Conductivity (mS/cm) 3%		DO (mg/L) 10%		ORP (mV) 10		Turbidity (NTU) 10/10		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1024	23.4		7.29		3.441		2.12		127.2		13.3		270	19.31		clear/No
1028	23.5		7.32		3.453		2.02		134.1		12.2		270	19.31		
1032	23.3		7.34		3.453		1.90		137.0		30.6		270	19.31		
1036	23.4		7.34		3.460		1.65		140.7		41.7		270	19.31		
1040	23.3		7.33		3.459		1.70		142.1		71.1		270	19.31		
1044	23.4		7.33		3.462		1.72		144.5		17.7		270	19.31		
1048	23.5		7.32		3.466		1.66		148.1		25.8		270	19.31		
1052	23.3		7.32		3.470		1.63		149.6		36.0		270	19.31		
1056	23.4		7.32		3.459		1.66		151		28.6		270	19.31		
1100	23.5		7.33		3.472		1.63		150.6		5.1		270	19.31		
1103	23.4		7.34		3.451		1.64		149.1		3.2		270	19.31		
1106	23.4	0.4%	7.34	0.04	3.456	0.05%	1.63	0.06	150.7	1.5	3.6	<10	270	19.31	12.7	✓
			<0.1 unit						<10 mV							

Stop Purge Time: 11:07	Sample Time: 11:10	QA/QC Sample Time(s): 11:10
	Sample ID: PC-58-20200504	QA/QC Sample ID(s): PC-58-20200504-FD7

Observations/Comments
NA

Bottle Set Summary											
2	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PL-59
Field Sampler(s): B. Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 17.49 (18.57)	Screened Interval Top (ft): 7.5	Pump Intake Depth (ft): 26.9		
Well Depth (ft): 36.37 (36.37)	Screened/Open Interval Bottom (ft): 37.5	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/DOPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 901				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0924	24.9		7.16		3.650		1.94		159.6		95.0		200	17.68		clear/N
0929	24.6		7.15		3.651		0.80		161.2		68.0		200	17.68		clear/N
0914	24.8		7.14		3.620		0.73		305.108		45.1		200	17.68		clear/N
0917	24.5		7.14		3.603		0.64		160.5		42.9		200	17.68		clear/N
0920	24.6		7.14		3.614		0.59		159.5		37.4		200	17.68		clear/N
0923	24.7		7.14		3.614		0.58		158.27		32.4		200	17.68		clear/N
0926	24.7	<1%	7.14	0	3.616	<1%	0.57	5%	159.0	1.1	32.0	6%	200	17.68		clear/N
0929	24.6		7.14		3.614		0.55		158.1		30.7		200	17.68	5.6L	clear/N

Stop Purge Time: 0930	Sample Time: 0932	QA/QC Sample Time(s): NA
	Sample ID: PL-59-20200506	QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PL-60
Field Sampler(s): B. Chhun				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A		General Well Condition: Good	
Depth to Water (ft): 17.92 (19.1)	Screened Interval Top (ft): 7.1		Pump Intake Depth (ft): 28.9	
Well Depth (ft): 39.85 (39.8)	Screened/Open Interval Bottom (ft): 42.1		Well Diameter (in): 2	
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11	Equipment Decon. Method: Alconex/DI Rinse SOP	
Y Dedicated Tubing Present? (Y/N)		AL New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0710 0740				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mv)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0742	22.2		7.22		3.253		2.72		161.2		101.2		160	18.00		clear/N
0749	21.8		7.19		3.219		1.49		160.9		100.8		160	18.00		clear/N
0757	21.9		7.19		3.223		1.26		160.1		77.1		160	18.00		clear/N
0757	22.0		7.18		3.228		1.14		155.5		68.3		160	18.00		clear/N
0800	22.1		7.18		3.234		1.07		159.2		63.7		160	18.00		clear/N
0803	22.0		7.18		3.236		0.89		159.0		66.4		160	18.00		clear/N
0806	22.1		7.18		3.236		0.86		158.9		59.7		160	18.00		clear/N
0809	22.1	<1%	7.18	0	3.239	<1%	0.83	5%	158.7	0.4	60.6	3%	160	18.00		clear/N
0812	22.2		7.18		3.234		0.82		158.5		58.3		160	18.00		clear/N
															5.1L	

Stop Purge Time: 0813	Sample Time: 0815	QA/QC Sample Time(s): 0740
Sample ID: PL-60-20200506	QA/QC Sample ID(s): DC-60-20200506-184	

Observations/Comments

pump not discharging - pull pump @ 716 restart purge at 723, still not discharging

Bottle Set Summary

4	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PL-62
Field Sampler(s): B. Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 19.80 16.89	Screened Interval Top (ft): 1.9	Pump Intake Depth (ft): 27.7		
Well Depth (ft): (32.31) 38.42	Screened/Open Interval Bottom (ft): 39.9	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 10:12				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
10:14	24.5		7.25		2.710		3.02		106.3		21.3		180	17.06		clear (N)
10:17	21.2		7.23		2.310		1.17		107.1		15.6		180	17.06		clear (N)
10:20	20.9		7.27		2.362		0.95		107.5		16.0		180	17.06		clear (N)
10:23	20.4		7.27		2.325		0.72		107.9		16.8		180	17.06		clear (N)
10:26	20.1	0	7.27	0.01	2.313	4%	0.64	10%	108.37	0.5	17.67	9%	180	17.06		clear (N)
10:29	20.1		7.27		2.321		0.59		108.4		17.8		180	17.06	clear (N)	
10:37	20.1		7.28		2.325		0.58		108.8		19.2		180	17.06	3.6L clear (N)	

Stop Purge Time: 10:33	Sample Time: 10:35	QA/QC Sample Time(s): NA
Sample ID: PL-62-20200506	QA/QC Sample ID(s): NA	

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/1/20	Well ID: PC-64
Field Sampler(s): A. Cavitt				
Transducer Removal Time: 11:15 12:15	Transducer Redeployment Time: 13:00	General Well Condition: GOOD		
Depth to Water (ft): 11.40 (11.70)	Screened Interval Top (ft): 3.7	Pump Intake Depth (ft): 14.5		
Well Depth (ft): 17.71 (18)	Screened/Open Interval Bottom (ft): 18.7	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconex/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)	<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)			
Purge Start Time: 12:33				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1236	23.1		7.60		7.054		0.85		171.3		42.25		270	11.44	0.81	N/N
1279	24.6		7.60		7.053		0.73		172.1		43.37		270	11.44	1.62	N/N
1242	24.4		7.59		7.048		0.62		171.4		27.27		270	11.44	2.43	N/N
1246	24.2		7.59		7.052		0.50		170.0		16.75		270	11.44	3.24	3.51 N/N
1249	24.3		7.60		7.043		0.45		169.0		13.62		270	11.44	4.45	4.32 N/N
1252	24.2		7.60		7.042		0.43		167.8		10.78		270	11.44	4.86	5.13 N/N
1255	24.3		7.60		7.041		0.44		166.4		7.97		270	11.44	5.94	N/N
1258	24.3		7.60		7.048		0.47		164.9		6.08		270	11.44	6.75	N/N
1302	24.2	0.4%	7.60	0	7.047	0.08%	0.46	<0.5	163.6	2.8 mV	5.98	<10 NTU	270	11.44	7.56	N/N

Stop Purge Time: 13:03	Sample Time: 13:06	QA/QC Sample Time(s): 13:06
	Sample ID: PC-64-20200507	QA/QC Sample ID(s): PC-64-20200507-F09

Observations/Comments

Bottle Set Summary										
4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H2SO4	2	250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/7/20 Well ID: PL-65

Field Sampler(s): Dylan Davis

Transducer Removal Time: —

Transducer Redeployment Time: —

General Well Condition: Good

Depth to Water (ft): 2.72 11.72

Screened Interval Top (ft): 3.2

Pump Intake Depth (ft): 15.3 ft

Well Depth (ft): 19.09

Screened/Open Interval Bottom (ft): 17.8

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N)

N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1118

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1119	24.4		7.38		5.009		1.35		167.4		78.1		320	11.74	0.38	NA
1122	24.4		7.38		5.111		0.59		16.1		21.2		360	11.76	1.80	
1125	24.3		7.37		5.171		0.48		163.0		21.9		360	11.76	3.24	N/A
1129	24.2	<1.0%	7.37	0.0	5.096	1.53%	0.46	<0.5	166.0	3.1	15.6	5.6	360	11.76	4.68	
1131	24.2		7.37		5.093		0.45		159.9		15.8		360	11.76	6.12	

Stop Purge Time: 113

Sample Time: 1135

QA/QC Sample Time(s): —

Sample ID: PL-65-20200507

QA/QC Sample ID(s): —

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bankers Task No: H02 Date: 5/7/20 Well ID: PL-66

Field Sampler(s): Dylan Davis

Transducer Removal Time:

Transducer Redeployment Time:

General Well Condition: Good

Depth to Water (ft): 14.55

Screened Interval Top (ft): 6.5

Pump Intake Depth (ft): 20.4

Well Depth (ft): 26.31

Screened/Open Interval Bottom (ft): 26.5

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N)

New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1235

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1236	27.0		7.35		5.301		1.54		169.1		198.3		280	14.65	0.07	0.28 N/A
1241	26.3		7.35		5.298		0.51		168.4		145.2		270	14.66	1.4	
1246	26.4		7.35		5.302		0.46		167.9		139.3		280	14.66	2.52	
1249	26.4	0.0	7.35	0.0	5.304	<1%	0.45	<0.5	167.6	0.6	137.2	0.5	280	14.66	3.64	
1252	26.4		7.35		5.299		0.44		167.3		132.8		280	14.66	4.76	N/A

Stop Purge Time: 1252

Sample Time: 1253

QA/QC Sample Time(s):

Sample ID: PL-66-20200507

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkers	Task No: H02	Date: 5/7/20	Well ID: PC-67
Field Sampler(s): A. Cicciotti				
Transducer Removal Time: 0940	Transducer Redeployment Time: 1100	General Well Condition: GOOD		
Depth to Water (ft): 15.55 (15.75)	Screened Interval Top (ft): 10.5	Pump Intake Depth (ft): 23		
Well Depth (ft): 30.33 (30.4)	Screened/Open Interval Bottom (ft): 35.1	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)	<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)			
Purge Start Time: 1606				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1008													120	15.56	0.24	N/N
1010	26.3		7.27		13.422		1.62		160.5		2.41		120	15.56	0.48	N/N
1013	26.2		7.26		13.449		1.09		161.5		20.00		120	15.56	0.84	N/N
1016	26.1		7.25		13.457		0.96		161.7		19.44		120	15.56	1.20	N/N
1017	26.1		7.25		13.479		0.89		161.5		17.34		120	15.56	1.56	N/N
1022	26.1		7.25		13.481		0.85		161.2		14.99		120	15.56	1.92	N/N
1025	26.1		7.25		13.583		0.79		160.7		13.16		120	15.56	2.28	N/N
1028	26.1		7.25		13.520		0.77		160.2		13.03		120	15.56	2.64	N/N
1031	26.1		7.25		13.527		0.74		159.8		10.42		120	15.56	3.00	N/N
1034	26.2		7.25		13.541		0.73		159.2		10.10		120	15.56	3.36	N/N
1037	26.1		7.25		13.551		0.71		158.7		9.50		120	15.56	3.72	N/N
1040	26.3		7.25		13.541		0.70		157.8		9.25		120	15.56	4.08	N/N
1044	26.3	0.77%	7.25	0	13.557	0.10%	0.69	2.90%	157.0	1.7	7.63	<10	120	15.56	4.56	N/N

Stop Purge Time: 1046	Sample Time: 1050	QA/QC Sample Time(s):
	Sample ID: PC-67-20200507	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary											
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/8/20	Well ID: PC-71
Field Sampler(s): <i>PKH/unn</i>				
Transducer Removal Time: <i>NA</i>	Transducer Redeployment Time: <i>NA</i>	General Well Condition: <i>good 100% tested</i>		
Depth to Water (ft): <i>(25.4) 25.26</i>	Screened Interval Top (ft): <i>16</i>	Pump Intake Depth (ft): <i>27.1</i>		
Well Depth (ft): <i>(32.75) 29.90 (with cap)</i>	Screened/Open Interval Bottom (ft): <i>31</i>	Well Diameter (in): <i>2</i>		
Pump/Tubing Type: <i>GED Bladder Pump & TLPEALDPE</i>	GW Disposit: <i>GW-11</i>	Equipment Decon. Method: <i>Alconox/DI Rinse SOP</i>		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: <i>0857</i>				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0900	26.5		7.45		17.251		3.05		140.2		15.5		200	25.30	0.6	clear/N
0903	26.1		7.43		16.855		2.98		142.6		8.3		180	25.34	0.541	clear/N
0906	26.2		7.43		16.682		3.67		145.4		5.6		90	25.49		clear/N
0909	26.4		7.43		16.690		3.99		147.9		5.0		90	25.50		clear/N
0912	26.3	<1%	7.43	0.01	16.658	<1%	4.05	2%	150.5	3.9	4.7	<10	90	25.50		clear/N
0915	26.3		7.42		16.649		3.97		151.8		4.6		90	25.50	2.26	clear/N

Stop Purge Time: <i>0916</i>	Sample Time: <i>0918</i>	QA/QC Sample Time(s): <i>600</i>
	Sample ID: <i>PC-71-20200508</i>	QA/QC Sample ID(s): <i>PC-71-20200508-TB8</i>

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/18/20 Well ID: PL-77

Field Sampler(s): PZM/hun

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good, nested holes

Depth to Water (ft): (28.35) 27.65 Screened Interval Top (ft): 17.6 Pump Intake Depth (ft): 32.1

Well Depth (ft): (36.68) 36.60 Screened/Open Interval Bottom (ft): 37.6 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0741

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0742	24.9		7.39		17.650		4.59		189.5		24.1		180	27.71		clear/N
0745	25.1		7.38		18.101		3.65		188.6		26.3		180	27.78		clear/N
0748	25.3		7.39		18.232		3.23		185.1		26.8		180	27.80		clear/N
0751	25.4	} <10%	7.39	} 0.01	18.285	} <10%	2.97	} 8%	181.3	} 2.7	33.6	} <10%	180	27.80		clear/N
0754	25.5		7.38		18.312		2.98		179.8		35.5		180	27.80	clear/N	
0757	25.5		7.38		18.310		3.21		178.6		37.3		180	27.80	clear/N	

2.8L

Stop Purge Time: 0759 Sample Time: 0800 QA/QC Sample Time(s): 0750

Sample ID: PL-77-20200508 QA/QC Sample ID(s): PL-77-20200508-FB9

Observations/Comments: change cycle from 20/10 to 40/20 @ 7:55

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: PC-74
Field Sampler(s): <u>Crockett</u>				
Transducer Removal Time: <u>07:30</u>	Transducer Redeployment Time: <u>09:00</u>	General Well Condition: <u>GOOD</u>		
Depth to Water (ft): <u>10.57 (11.21)</u>	Screened Interval Top (ft): <u>40.2</u>	Pump Intake Depth (ft): <u>45</u>		
Well Depth (ft): <u>48.44 (48.52)</u>	Screened/Open Interval Bottom (ft): <u>50.2</u>	Well Diameter (in): <u>2</u>		
Pump/Tubing Type: <u>GED Bladder Pump & TLPELOPE</u>	GW Disposit: <u>GW-11</u>	Equipment Decon. Method: <u>Alconox/DI Rinse SOP</u>		
<u>Y</u> Dedicated Tubing Present? (Y/N)		<u>N</u> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 08:07

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
<u>0813</u>	<u>23.3</u>		<u>7.10</u>		<u>4.478</u>		<u>3.44</u>		<u>120.9</u>		<u>39.81</u>		<u>80</u>	<u>10.57</u>	<u>0.48</u>	<u>N/N</u>
<u>0818</u>	<u>22.2</u>		<u>7.06</u>		<u>4.510</u>		<u>1.40</u>		<u>127.2</u>		<u>18.63</u>		<u>200</u>	<u>10.57</u>	<u>1.48</u>	<u>N/N</u>
<u>0823</u>	<u>22.2</u>		<u>7.06</u>		<u>4.512</u>		<u>1.07</u>		<u>126.2</u>		<u>10.92</u>		<u>200</u>	<u>10.57</u>	<u>2.48</u>	<u>N/N</u>
<u>0826</u>	<u>22.2</u>		<u>7.06</u>		<u>4.513</u>		<u>0.99</u>		<u>123.5</u>		<u>9.93</u>		<u>200</u>	<u>10.57</u>	<u>3.08</u>	<u>N/N</u>
<u>0829</u>	<u>22.2</u>		<u>7.06</u>		<u>4.514</u>		<u>0.95</u>		<u>121.8</u>		<u>7.90</u>		<u>200</u>	<u>10.57</u>	<u>3.68</u>	<u>N/N</u>
<u>0832</u>	<u>22.3</u>	<u>0.5%</u>	<u>7.06</u>	<u>0</u>	<u>4.513</u>	<u>0.02%</u>	<u>0.93</u>	<u>6.5%</u>	<u>120.3</u>	<u>3.2</u>	<u>6.92</u>	<u>510</u>	<u>200</u>	<u>10.57</u>	<u>4.28</u>	<u>N/N</u>

Stop Purge Time: <u>08:35</u>	Sample Time: <u>08:35</u>	QA/QC Sample Time(s): <u>NA</u>
	Sample ID: <u>PC-74-20200515</u>	QA/QC Sample ID(s): <u>NA</u>

Observations/Comments

Bottle Set Summary

<u>2</u>	<u>3x VOA w/HCl</u>	<u>1</u>	<u>125 mL Plastic</u>	<u>500 mL Plastic</u>	<u>500 mL w/H₂SO₄</u>	<u>500 mL poly w/HNO₃</u>	<u>250 mL Amber Glass w/H₂SO₄</u>
<u>1</u>	<u>125 mL w/EDA</u>	<u>1</u>	<u>250 mL Plastic</u>	<u>250 mL w/H₂SO₄</u>	<u>250 mL poly w/HNO₃</u>	<u>250 mL Amber Glass w/H₂PO₄</u>	<u>500 mL Amber Glass</u>

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

after falling after observation

Task Name: GW Monitoring | Task Manager: Jesse Bunkers | Task No: H02 | Date: 5/6/2020 | Well ID: PC-77

Field Sampler(s): *A. Crockett*

Transducer Removal Time: *10:29* | Transducer Redeployment Time: *12:15* | General Well Condition: *Good*

Depth to Water (ft): *4.96* | Screened Interval Top (ft): *29.5* | Pump Intake Depth (ft): *34*

Well Depth (ft): *38.80* | Screened/Open Interval Bottom (ft): *39.5* | Well Diameter (in): *2*

Pump/Tubing Type: OED Bladder Pump & TLPEADPE | GW Disposal: GW-11 | Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) | New Dedicated Tubing Placed? (Y/N)

Purge Start Time: *11:05*

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1035														5.12		
1037														5.17		
1047														5.13		
110														5.24		
1105														5.15		
1108														5.41		
1112	26.3		7.18		4.869		0.85		173.2		37.64		120	5.41	0.80	N/N
1115	26.5		7.11		4.864		0.74		172.7		38.56		120	5.41	1.20	N/N
1116	26.7		7.10		4.872		0.61		171.0		33.07		120	5.41	1.56	N/N
1121	26.9		7.10		4.864		0.54		169.1		29.68		120	5.41	1.92	N/N
1124	26.8		7.10		4.870		0.49		169.3		27.35		120	5.41	2.28	N/N
1127	26.9		7.10		4.876		0.45		167.4		24.25		120	5.41	2.64	N/N
1133	26.9		7.10		4.870		0.39	<0.5	166.1	0.78%	24.73		20	5.41	3.00	N/N
1136	27.1	0.74%	7.0	0	4.866	0.28%	0.39	<0.5	166.5	0.78%	26.52	9.36%	20	5.41	3.36	N/N

Stop Purge Time: *11:39* | Sample Time: *11:40* | QA/QC Sample Time(s): *---*

Sample ID: *PC-77-20200506* | QA/QC Sample ID(s): *---*

Observations/Comments: *Surface (Custom Well VDUH) well with standing water to ~1.5" of TBC*

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/4/20	Well ID: PC-79
Field Sampler(s): Dylan Davis				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A		General Well Condition: Good.	
Depth to Water (ft): 15.82	Screened Interval Top (ft): 36.9		Pump Intake Depth (ft): 41.7	
Well Depth (ft): 51.45	Screened/Open Interval Bottom (ft): 46.9		Well Diameter (in): 2	
Pump/Tubing Type: OED Bladder Pump & TLPE/DPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1335				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (ft ³)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1338	25.7		7.24		2.734		1.92		68.8		33.1		200mL	15.82	5.2	No/No
1341	25.1		7.24		2.719		0.74		66.1		34.5		200mL	15.82	1.26	
1346	25.5		7.24		2.738		0.58		58.8		39.1		200mL	15.82	2.2	
1351	25.3		7.23		2.742		0.56		53.0		2.6		200mL	15.82	3.2	
1354	25.3	0.79	7.24	0.02	2.740	0.33%	0.48	20.50	47.9	8.1	2.5	<10	200mL	15.82	4.2	
1357	25.1		7.25		2.733		0.44		44.9		2.6		200mL	15.82	4.6	

Stop Purge Time: 1358	Sample Time: 1400	QA/QC Sample Time(s): N/A
	Sample ID: PC-79-20200504	QA/QC Sample ID(s): N/A

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/5/20	Well ID: PC-82
Field Sampler(s): Dylan Davis				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (R): 15.35	Screened Interval Top (R): 50.5	Pump Intake Depth (R): 55.5		
Well Depth (R): 67.90	Screened/Open Interval Bottom (R): 60.5	Well Diameter (In): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0710				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (R)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0711	21.6		7.32		2.312		2.64		85.4		11.1		20ml	15.03		clear/na
0716	21.4		7.28		2.310		1.74		70.4		10.5		80ml	15.72		
0721	21.4		7.27		2.307		1.11		66.7		9.8		80ml	15.51		
0724	21.4		7.26		2.308		1.04		64.4		9.4		80ml	15.48		
0727	21.5	0.46%	7.26	0.0	2.312	0.44%	1.00	6%	61.1	4.5	9.9	<10	80ml	15.46		
0730	21.5		7.26		2.318		0.99		59.9		10.0		80ml	15.46	20L	

Stop Purge Time: 0730	Sample Time: 0731	QA/QC Sample Time(s): 0731
	Sample ID: PC-82-20200505	QA/QC Sample ID(s): PC-82-20200505-FB17

Observations/Comments: NA

Bottle Set Summary		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄	
2	3x VOA w/HCl	1									
1	125 mL w/EDA	1		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/4/20	Well ID: PC-86
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good, no locks		
Depth to Water (ft): 11.72	Screened Interval Top (ft): 19.5	Pump Intake Depth (ft): 24.5		
Well Depth (ft): 33.40	Screened/Open Interval Bottom (ft): 29.5	Well Diameter (in): 2"		
Pump/Tubing Type: CED Bladder Pump & TLPEALDPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N) Y		New Dedicated Tubing Placed? (Y/N) N		
Purge Start Time: 12:27				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1232	23.0		7.5		2.27		0.46		106.3		34.10		300	11.72		Clear/NO
1237	22.5		7.41		2.27		0.25		100.3				300	11.72		
1242	22.3		7.37		2.28		0.17		97.3		76.7		300	11.74		
1247	22.4		7.36		2.28		0.15		99.6		46.2		300	11.73		
1252	22.4		7.36		2.28		0.13		100.5		26.0		300	11.73		
1257	22.5		7.36		2.28		0.12		101.0		15.0		300	11.73		
1302	22.4		7.36		2.28		0.12		102.7		8.6		300	11.73		
1307	22.4		7.36		2.28		0.12		103.5		7.1		300	11.73		
1312	22.3	<1%	7.36	0%	2.27	<1%	0.11	<0.5	104.5	<10	6.2	<10	300	11.73	13.5	
				0 units				no/b		mV		NTU				

Stop Purge Time: 13:13	Sample Time: 13:18	QA/QC Sample Time(s): N/A
Sample ID: PC-86-2020050A	QA/QC Sample ID(s): N/A	
Observational Comments: Pump Refill = 115, disch = 95, pressure = 40 PSI		

Bottle Set Summary											
2	3x VOA w/HCl	!	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	!	250 mL Plastic		250 mL w/H ₂ SO ₄	!	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/5/20	Well ID: PC-90
Field Sampler(s): A. Moore	Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good	
Depth to Water (ft): 5.12	Screened Interval Top (ft): 4.5	Pump Intake Depth (ft): 4.2	Well Diameter (in): 2	
Well Depth (ft): 13.29	Screened/Open Interval Bottom (ft): 14.3	Equipment Decon. Method: Alconox/DI Rinse SOP	Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> N	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> N		

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1013	23.4		7.14		4.546		4.16		296.1		22.5		300	5.12	0.3	None/none
1017	23.1		7.17		4.561		3.91		292.5		24.7		300	5.12	1.8	" "
1022	23.2		7.19		4.572		3.57		291.2		20.9		300	5.12	3.3	" "
1026	23.1		7.20		4.561		3.70		291.3		17.0		300	5.12	4.2	" "
1029	23.2		7.20		4.560		3.73		291.7		16.2		300	5.12	5.1	" "
1032	23.1		7.20		4.555		3.71		292.0		16.0		300	5.12	6.5	" "

Stop Purge Time: 1053	Sample Time: 1035	QA/QC Sample Time(s): NA
	Sample ID: PC-90-20300505	QA/QC Sample ID(s): NA

Observations/Comments
NA

Bottle Set Summary										
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/5/20	Well ID: PL-91
Field Sampler(s): <i>Blahun</i>	Transducer Removal Time: <i>NA</i>	Transducer Redeployment Time: <i>NA</i>	General Well Condition: <i>good</i>	
Depth to Water (ft): <i>10.09</i>	Screened Interval Top (ft): <i>11.4</i>	Pump Intake Depth (ft): <i>15.7</i>		
Well Depth (ft): <i>19.90</i>	Screened/Open Interval Bottom (ft): <i>21.4</i>	Well Diameter (in): <i>2</i>		
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: <i>0910</i>				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0913	24.9		6.88		3.398		2.23		195		36.5		210	10.10		clear/N
0916	24.9		6.79		3.381		1.33		187.6		22.1		210	10.10		clear/N
0919	25.0		6.76		3.416		1.00		174.6		16.1		210	10.10		clear/N
0922	25.0		6.75		3.451		1.27		163.2		15.2		210	10.10		clear/N
0925	25.0		6.74		3.477		1.05		156.4		14.8		210	10.10		clear/N
0928	25.0		6.74		3.507		0.98		153.1		15.3		210	10.10		clear/N
0931	25.0		6.73		3.527		0.94		151.57		13.8		210	10.10		clear/N
0934	25.0		6.73		3.542		0.91		149.3	3.9	14.0	6%	210	10.10		clear/N
0937	25.0		6.73		3.557		0.88		147.6		13.2		210	10.10	5.7L	clear/N

Stop Purge Time: <i>939</i>	Sample Time: <i>940</i>	QA/QC Sample Time(s): <i>NA</i>
Sample ID: <i>PL-91-20200505</i>	QA/QC Sample ID(s): <i>A</i>	

Observations/Comments
NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring	Task Manager: Jesse Benkers	Task No: HD2	Date: 6/5/20	Well ID: PL-94
Field Sampler(s): B. Chalkin				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 12.54	Screened Interval Top (ft): 9.3	Pump Intake Depth (ft): 15.92		
Well Depth (ft): 19.89	Screened/Open Interval Bottom (ft): 19.3	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPELDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconex/DI Rinse SOP		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0653

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0655	22.3		6.97		4.810		2.20		193.7		120.9		240	12.65		clear/N
0658	23.1		6.96		4.928		1.18		195.0		127.8		300	12.65		clear/N
0701	23.4		6.97		4.972		0.88		195.5		113.5		300	12.65		clear/N
0704	23.4		6.97		4.984		0.72		195.6		84.1		300	12.65		clear/N
0707	23.4		6.98		4.985		0.66		195.6		57.6		300	12.65		clear/N
0710	23.4		6.98		4.986		0.65		195.5		38.3		300	12.65		clear/N
0713	23.4		6.98		4.987		0.65		195.1		28.3		300	12.65		clear/N
0716	23.4		6.98		4.989		0.60		194.6		22.2		300	12.65		clear/N
0719	23.4		6.98		4.992		0.61		194.5		22.1		300	12.65		clear/N
0722	23.4		6.98		4.995		0.61		194.2		20.8		300	12.65	8.5L	clear/N

Stop Purge Time: 0723

Sample Time: 0725

QA/QC Sample Time(s): 0725

Sample ID: PL-94-20200505

QA/QC Sample ID(s): PL-94-20200505 -FD6

Observations/Comments

NA

PL-94-20200505-TB2 @ 0600

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bankers Task No: H02 Date: 5/5/20 Well ID: PC-96

Field Sampler(s): J. Bankers

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good

Depth to Water (ft): 5.34 Screened Interval Top (ft): 28.9 Pump Intake Depth (ft): 33.9

Well Depth (ft): 34.12 / 34 to near Screened/Open Interval Bottom (ft): 38.9 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1136

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1139	23.6		7.69		2.876		1.34		86.2		716.38		300	5.35		cloudy/none
1142	22.8		7.37		2.858		0.37		84.8		299.30		"	"		"
1145	22.6		7.31		2.850		0.30		82.5		195.57		"	"		"
1148	22.6	} 0	7.29	} <.1	2.847	} 1%	0.26	} <.5	80.1	} 2.7	86.48	} 8%	"	"		cloud/none
1151	22.8		7.30		2.869		0.27		82.8		84.42		"	"		
1154	22.6		7.28		2.871		0.26		82.5		82.81		"	"	5.4	"

Stop Purge Time: 1155 Sample Time: 1200 QA/QC Sample Time(s): —

Sample ID: PC-96-20200505 QA/QC Sample ID(s): —

Observations/Comments
NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/4/20	Well ID: PL-97
Field Sampler(s): B Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: Good	
Depth to Water (ft): 4.11	Screened Interval Top (ft): 22.5		Pump Intake Depth (ft): 26.60	
Well Depth (ft): 30.70, checked	Screened/Open Interval Bottom (ft): 32.5		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1240				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1244	24.1		7.35		2.44		1.45		66.4		90.7		120	4.11		clear/N
1249	23.2		7.27		2.493		0.86		46.8		66.6		120	4.11		clear/N
1254	23.2		7.27		2.488		0.69		43.1		41.3		120	4.11		clear/N
1259	23.2		7.27		2.488		0.64		44.8		32.7		120	4.11		clear/N
1300	23.2		7.27		2.488		0.60		46.9		27.8		120	4.11		clear/N
1305	23.2	0%	7.28	0.01	2.488	<1%	0.58	7%	48.5	3	27.4	7%	120	4.11		clear/N
1308	23.2		7.28		2.491		0.56		49.9		25.8		120	4.11	3.4L	clear/N

Stop Purge Time: 1310	Sample Time: 1312	QA/QC Sample Time(s): 900
	Sample ID: PL-97-20000524	QA/QC Sample ID(s): PL-97-20000524-TB1

Observations/Comments

Bottle Set Summary

2x2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PC-9812
Field Sampler(s): A. Cusick	Transducer Removal Time: 1310	Transducer Redeployment Time: 1415	General Well Condition: GOOD	
Depth to Water (ft): 20.44 (22)	Screened Interval Top (ft): 20	Pump Intake Depth (ft): 32	Well Diameter (in): 4	
Well Depth (ft): 39.38 (39.37)	Screened/Open Interval Bottom (ft): 35	Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	Equipment Decon. Method: Alconox/DI Rinse SOP	
GW Disposal: GW-11		Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> Y		
New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> N		Purge Start Time: 1330		

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1333	25.9		7.20		4.907		2.08		202.6		0.47		270	20.43	0.81	N/A
1336	27.1		7.11		4.066		1.44		202.9		0.51		270	20.43	1.08	N/A
1339	26.7		7.11		4.059		1.43		201.7		-0.65		270	20.44	1.35	N/A
1342	26.5	2.26%	7.10	0.14%	4.051	0.37%	1.39	3.5%	199.9	3 mV	-0.56	<10 NTU	270	20.44	1.62	N/A

Stop Purge Time: 1344	Sample Time: 1350	QA/QC Sample Time(s):
Sample ID: PC-98R-20200506	QA/QC Sample ID(s):	

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-6-20	Well ID: PC-101R
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 35.15 ✓	Screened Interval Top (ft): 19.7	Pump Intake Depth (ft): 42.4		
Well Depth (ft): 99.7 BTOC	Screened/Open Interval Bottom (ft): 44.7	Well Diameter (in): 2"		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconow/DI Rinse SOP ✓		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0711

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0713	24.4		7.18		6.350		6.21		-203.8		6.45		240	35.15		N/A
0720	24.4		7.15		6.358		5.11		201.0		2.86		300	35.15		N/A
0725	24.6		7.15		6.359		4.89		198.9		2.21		↓	35.15		N/A
0730	24.7		7.15		6.359		4.83		198.6		2.09		↓	35.15		N/A
0735	24.7	} No change	7.15	} No change	6.359	} <1 µS	4.81	} <1%	198.7	} 0.3 mV	1.91	} <10 NTU	↓	35.15		N/A
0740	24.7		7.15		6.361		4.80		198.9		1.89		↓	35.15	9	N/A

Stop Purge Time: 0741	Sample Time: 0746	QA/QC Sample Time(s): NA
	Sample ID: PC-101R-20200506	QA/QC Sample ID(s): NA

Observations/Comments: Pump settings: Refill 11 s, Discharge 9 s, Pressure 35 psi, then 40 psi @ 7:18

Bottle Set Summary										
2x	3x VOA w/HCl	✓	125 mL Plastic sterile		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic		250 mL w/H ₂ SO ₄	✓	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PC-103
Field Sampler(s): B. Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 21.87 (22.65)	Screened Interval Top (ft): 11.3	Pump Intake Depth (ft): 21.40		
Well Depth (ft): 20.3 (130.08)	Screened/Open Interval Bottom (ft): 31.3	Well Diameter (in): 4.02		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconax/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1320				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1322	26.6		7.15		2.730		2.09		77.1		16.7		200	21.40		clear (N)
1325	25.1		7.13		2.633		1.31		86.3		14.3		200	21.40		clear (N)
1328	24.7		7.14		2.609		1.08		92.5		14.9		200	21.40		clear (N)
1331	24.4	} 4%	7.14	} 0	2.585	} 21%	0.93	} 2%	99.1	} 4.6	14.2	} 5%	200	21.40		clear (N)
1334	24.3		7.14		2.584		0.92		100.8		14.6		200	21.40	clear (N)	
1337	24.3		7.14		2.581		0.94		103.7		14.9		200	21.40	clear (N)	

Stop Purge Time: 1338	Sample Time: 1340	QA/QC Sample Time(s): 1340
	Sample ID: PL-103-20200506	QA/QC Sample ID(s): PL-103-20200506 - FB-6

Observations/Comments

Bottle Set Summary

24	3x VOA w/HCl	2	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5-8-20	Well ID: PC-107
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good		
Depth to Water (ft): 19.24	Screened Interval Top (ft): 7.4	Pump Intake Depth (ft): 11.5		
Well Depth (ft): 12.6	Screened/Open Interval Bottom (ft): 17.4	Well Diameter (in): 2"		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Deposit: GW-11	Equipment Decon. Method: Alconox/DI Rinses SOP ✓		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0718				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0721	22.4		7.61		6.413		3.17		246.1		31		270			
0725	22.2		6.99		6.446		2.67		236.4		15			9.31		
0729	22.1		7.00		6.453		2.93		231		20			9.30		
0732	22.1		7.00		6.466		2.05		227.9		15			9.31		
0736	22.0		7.01		6.471		2.01		225.0		13.0			9.31		
0740	22.0		7.01		6.475		1.98		222.4		12.4			9.34		
0743	22.0	NO change	7.01	NO change	6.477	<1%	1.99	1%	221.8	3.2 mV	11.8	10%	270	9.32	8	

Stop Purge Time: 0744	Sample Time: 0750	QA/QC Sample Time(s): NA
	Sample ID: PC-107-20200508	QA/QC Sample ID(s): NA

Observations/Comments

Pump settings 13 s refill, 7 s discharge, 20 psi

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/6/20 Well ID: PL-108

Field Sampler(s): B. Chhya

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: 200 good

Depth to Water (ft): 11.19 (12.37)

Screened Interval Top (ft): 12.8

Pump Intake Depth (ft): 27.5

Well Depth (ft): 42.20 (42.1)

Screened/Open Interval Bottom (ft): 47.8

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/DPPE

GW Disposal: GW-11

Equipment Decon. Method: Alconax/DI Rinse SOP

Dedicated Tubing Present? (Y/N)

New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1147

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1149	23.4		7.58		2.743		2.61		51.4		17.21		200	11.21		clear/N
1152	22.3		7.55		2.618		1.41		36.3		17.5		200	11.21		clear/N
1155	21.5		7.57		2.572		1.03		23.3		19.8		200	11.21		clear/N
1158	21.9		7.56		2.540		0.79		15.8		20.1		200	11.21		clear/N
1201	21.37		7.56		2.556		0.70		14.7		19.5		200	11.21		clear/N
1204	21.4	<1%	7.56	0	2.563	<1%	0.69	0.1	14.1	1.5	20.5	6%	200	11.21		clear/N
1207	21.4		7.56		2.547		0.65		13.2		20.6		200	11.21	4L	clear/N

Stop Purge Time: 1208

Sample Time: 1210

QA/QC Sample Time(s): 1230

Sample ID: PL-108-20200506

QA/QC Sample ID(s): PL-108-20200506-EB17

Observations/Comments

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burbers Task No: H02 Date: 5/2/20 Well ID: PC-110

Field Sampler(s): A. [Signature]

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 13.04 Screened Interval Top (ft): 9.3 Pump Intake Depth (ft): 25.5

Well Depth (ft): 37.89 Screened/Open Interval Bottom (ft): 31.3 Well Diameter (in): 2

Pump/Tubing Type: OED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1134

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1135	23.1		7.17		4.698		2.85		192.9		33.8		400	13.04	0.4	none/none
1140	24.7		6.98		4.653		2.09		213.0		31.0		400	13.04	2.4	" "
1143	24.6		6.98		4.657		1.97		216.2		30.7		400	13.04	3.6	" "
1146	24.8		6.99		4.680		1.87		205.1		32.9		400	13.04	4.8	" "
1149	25.0	7.1% change	6.99	no change	4.707	2.1%	1.86	2.7%	228.7	6.3	35.2	7.1	400	13.04	6.0	" "
1152	25.0		6.99		4.710		1.83		231.4		33.0		400	13.04	7.2	" "

Stop Purge Time: 1153 Sample Time: 1155 QA/QC Sample Time(s): NA

Sample ID: PC-110-20200505 QA/QC Sample ID(s): NA

Observations/Comments: NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring
Task Manager: Jesse Bunkers
Task No: H02
Date: 5/5/20
Well ID: PL-122
Field Sampler(s): Dylan Davis
Transducer Removal Time: N/A
Transducer Redeployment Time: N/A
General Well Condition: Good
Depth to Water (ft): 32.30
Screened Interval Top (ft): 22.6
Pump Intake Depth (ft): 34.95 ft (35 ft)
Well Depth (ft): 37.80
Screened/Open Interval Bottom (ft): 37.6
Well Diameter (in): 2
Pump/Tubing Type: QED Bladder Pump & TLPEADPE
GW Disposal: GW-11
Equipment Decon. Method: Alconox/DI Rinse SOP
Dedicated Tubing Present? (Y/N)
New Dedicated Tubing Placed? (Y/N)

Table with 13 columns: Time, Temp. (C), pH (pH Units), Conductivity (mS/cm), DO (mg/L), ORP (mV), Turbidity (NTU), Purge Rate (ml/min), Depth to Water (ft), Cum. Vol. Purged (L), Color/Odor. Rows include data for times 0943, 0948, 0953, 0956, 0959, 1003.

Stop Purge Time: 1002
Sample Time: 1003
QA/QC Sample Time(s): N/A
Sample ID: PL-122-20200505
QA/QC Sample ID(s): N/A

Observations/Comments: NA

Bottle Set Summary table with columns for quantity, chemical, and container type. Includes entries for VOA w/HCl, WEDA, Plastic, w/H2SO4, poly w/HNO3, Amber Glass w/H2SO4, and Amber Glass w/H3PO4.

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/7/20	Well ID: PC-123
Field Sampler(s): Dylan Davis				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Fair - water in protector		
Depth to Water (ft): 23.0	Screened Interval Top (ft): 19.7	Pump Intake Depth (ft): 29ft		
Well Depth (ft): 35.20	Screened/Open Interval Bottom (ft): 34.7	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Dispat: GW-11	Equipment Decon. Method: Alconox/OI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1349				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1350	27.2		7.30		6.878		4.82		150.6		81.1		270	23.06	0.27	
1353	26.5		7.30		6.588		4.01		151.8		54		270	23.06	1.35	
1356	26.0		7.28		6.029		3.52		157.9		11.3		270	23.06	2.43	
1359	26.0	0.0	7.28	0.0	6.003	<1.0%	3.51	1.1%	153.1	1.8	10.1	2.0	270	23.06	3.51	
1402	26.0		7.28		5.992		3.48		153.2		9.3		270	23.06	4.59	

Stop Purge Time: 1402	Sample Time: 1403	QA/QC Sample Time(s): -
	Sample ID: PC-123-20200507	QA/QC Sample ID(s): -

Observations/Comments: water in protector above PVC cap. Bailed out before sampling.

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/7/20	Well ID: PC-124
Field Sampler(s): H. Aragon				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 25.32	Screened Interval Top (ft): 19.7	Pump Intake Depth (ft): 30		
Well Depth (ft): 35.23	Screened/Open Interval Bottom (ft): 24.7	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1251				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1257	25.4		7.19		9.314		3.65		72.1		20.1		300	25.60	0.3	none/none
1302	25.2		7.19		9.295		3.67		78.6		21.4		200	25.38	1.3	" "
1305	25.3		7.19		9.300		3.66		80.0		21.0		200	25.57	2.3	" "
1308	25.4	±0.1	7.19	±0.1	9.316	±0.1	3.69	±0.1	81.8	±3.3	20.0	±1.6	200	25.57	2.9	" "
1308	25.3		7.19		9.306		3.73		83.3		19.5		200	25.57	3.5	" "

Stop Purge Time: 1309	Sample Time: 1310	QA/QC Sample Time(s): 1335
	Sample ID: PC-124-20200507	QA/QC Sample ID(s): PC-124-20200507-EBB

Observations/Comments: EBB ac sample collected from pump using nitro decon following primary sample from well.

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkert Task No: H02 Date: 5/7/20 Well ID: PC-125

Field Sampler(s): J. Bunke's

Transducer Removal Time: 0904

Transducer Redeployment Time: 1000 start 1100

General Well Condition: Good

Depth to Water (ft): 23.52

Screened Interval Top (ft): 18.3

Pump Intake Depth (ft): 28.4

Well Depth (ft): 33.1 / 33.25 measured

Screened/Open Interval Bottom (ft): 33.3

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE

GW Disposit: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0922

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0928	25.1		7.58		9.376		3.69		149.7		116.0		300	23.60		clear/new
0931	25.0		7.44		9.422		3.75		151.1		111.83		"	"		"
0934	25.1	<1%	7.40	0.02	9.469	<1%	3.80	1%	151.2	0	81.11	1%	"	"		"
0937	25.0		7.39		9.499		3.75		151.2		80.06		"	"		"
0940	25.0		7.38		9.502		3.85		151.2		80.45		"	"		6.0

Stop Purge Time: 0941

Sample Time: 0945

QA/QC Sample Time(s): -

Sample ID: PC-125-20200507

QA/QC Sample ID(s): -

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL. poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL. poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NVTask Name: GW Monitoring Task Manager: Jesse Bunker Task No: H02 Date: 5/7/20 Well ID: PC-126Field Sample(s): A MorganTransducer Removal Time: NATransducer Redeployment Time: NAGeneral Well Condition: goodDepth to Water (ft): 22.47Screened Interval Top (ft): 19.2Pump Intake Depth (ft): 28.3Well Depth (ft): 33.50Screened/Open Interval Bottom (ft): 34.2Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) YNew Dedicated Tubing Placed? (Y/N) NPurge Start Time: 1123

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Curr. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1124	24.3		7.19		10.975		3.11		78.9		278.2		300	22.77	0.3	Am/none
1129	24.2		7.16		10.962		2.85		78.0		206.4		300	22.47	1.8	" "
1134	24.2		7.17		11.127		2.43		76.7		64.2		300	22.47	3.3	" "
1139	24.2		7.17		10.743		2.43		76.3		32.1		360	22.47	4.38	" "
1142	24.1		7.18		10.625		2.47		75.9		25.7		360	22.47	5.46	" "
1145	24.0		7.17		10.590		2.49		75.2		25.3		360	22.47	6.54	" "
1148	24.1		7.17		10.552		2.48		75.5		20.8		360	22.47	7.62	" "
1151	24.1		7.17		10.469		2.49		75.2		21.0		360	22.47	8.7	None/none
1154	24.1		7.18		10.423		2.50		75.3		20.2		360	22.47	9.78	" "

Stop Purge Time: 1155Sample Time: 1156

QA/QC Sample Time(s):

Sample ID: PC-126-20200507

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkner Task No: HOZ Date: 5/9/20 Well ID: PC127

Field Sampler(s): A. Morgan

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: good

Depth to Water (ft): 19.10

Screened Interval Top (ft): 14.4

Pump Intake Depth (ft): 26.75

Well Depth (ft): 34.72

Screened/Open Interval Bottom (ft): 34.4

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE

GW Disposal: GW-11

Equipment Decan. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) YNew Dedicated Tubing Placed? (Y/N) N

Purge Start Time: 0847

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0848	24.9		7.20		6309		3.75		61.9		267.3		300	19.10	0.3	white/none
0857	24.8		7.29		6278		3.55		65.8		146.8		300	19.10	1.8	" "
0856	24.8		7.29		6279		3.46		68.6		67.1		360	19.10	3.6	" "
0903	24.8		7.29		6296		3.37		73.2		21.1		360	19.10	5.2	" "
0906	24.8	} no change	7.29	} no change	6312	} <1%	3.35	} <1%	74.9	} 3 mV	9.9	} <10 NTU	360	19.10	6.3	none/none
0909	24.8		7.29		6331		3.35		76.3		9.5		360	19.10	7.4	" "
0912	24.8		7.29		6328		3.33		72.9		5.2		360	19.10	8.4	" "

Stop Purge Time: 0915

Sample Time: 0915

QA/QC Sample Time(s):

Sample ID: PC127-20200507

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/7/20 Well ID: PL-128

Field Sampler(s): B. Johnson

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): (19.31) 19.11 Screened Interval Top (ft): 14.5 Pump Intake Depth (ft): 26.28

Well Depth (ft): (34.6) 34.6 Screened/Open Interval Bottom (ft): 34.5 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) Y New Dedicated Tubing Placed? (Y/N) Y

Purge Start Time: 1028

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1024	27.6		7.45		6.377		5.88		130.0		29.6		200	19.0		clear/N
1029	27.8		7.42		6.426		5.69		138.7		30.8		200	19.01		clear/N
1032	27.1		7.41		6.159		5.30		146.9		29.9		200	19.01		clear/N
1035	27.1		7.41		6.033		5.73		149.9		29.8		200	19.03		clear/N
1038	27.0		7.41		5.865	990	5.86		154.5		13.7		200	19.05		clear/N
1041	27.1		7.41		6.129		5.88		157.5		11.9		200	19.05		clear/N
1044	27.0		7.41		6.277		5.88		161.27		9.6		200	19.05		clear/N
1047	27.1	±10%	7.41	±10%	6.233	±10%	5.88	±10%	162.17	±10%	7.3	±10%	200	19.05		clear/N
1050	27.1		7.41		6.352		5.88		162.9		6.9		200	19.05		clear/N
															5.6L	

Stop Purge Time: 1051 Sample Time: 1058 QA/QC Sample Time(s):

Sample ID: PL-128-20200507 QA/QC Sample ID(s):

Observations/Comments:

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burkner Task No: H02 Date: 5-7-20 Well ID: PC-129

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Bolt caps broken on monument; water in vault

Depth to Water (ft): 19.30 Screened Interval Top (ft): 12.4 Pump Intake Depth (ft): 28.3

Well Depth (ft): 36.20 Screened/Open Interval Bottom (ft): 37.4 Well Diameter (in): 2"

Pump/Tubing Type: GED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconca/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0740

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0745	24.6		7.14		7.312		1.66		203.0		31.7		300	19.40		sl. turbid
0750	24.6		7.14		7.203		1.79		201.0		16.9		300	19.41		clear
0755	24.6		7.12		7.299		1.59		200.1		13.3		300	19.42		
0800	24.6		7.11		7.363		1.37		199.0		10.9		300	19.41		clear
0804	24.6		7.11		7.395		1.23		198.1		9.8			19.41		
0807	24.6		7.11		7.408		1.13		197.1		8.6			19.42		
0810	24.6		7.10		7.422		1.08		196.8		7.8			19.41	10	
0814	24.6		7.11		7.430		1.02		195.6		6.1			19.42		
0817	24.6	No Change	7.11		7.432	<10%	1.04	5.8%	194.8	2 mV	5.7	All <10 NTU		19.42	11	clear

Stop Purge Time: 0818 Sample Time: 0822 QA/QC Sample Time(s): NA

Sample ID: PC-129-20200507 QA/QC Sample ID(s): NA

Observations/Comments: Pump settings: Refill 11s, Drsch 9s, Pressure 40 psi

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic	250 mL w/H ₂ SO ₄	✓ 250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/7/20 Well ID: PC-130

Field Sampler(s): J Bunkers

Transducer Removal Time: 1040

Transducer Redeployment Time: 1120

General Well Condition: Good

Depth to Water (ft): 204.44

Screened Interval Top (ft): 14.4

Pump Intake Depth (ft): 32.0

Well Depth (ft): 441

Screened/Open Interval Bottom (ft): 49.4

Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N)

N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1044

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1047	25.7		7.37		9.049		2.95		106.4		91.27		300	204.44		clear/none
1050	25.5		7.28		8.928		3.05		122.1		103.40		300	204.5		"
1053	25.2		7.20		8.852		3.24		128.3		99.75		300	"		"
1056	25.2		7.26		8.770		3.25		135.3		50.42		"	"		"
1059	25.1		7.24		8.840		2.79		138.8		32.99		"	"		"
1102	25.1	0	7.23	0.01	8.875	4%	2.61	9%	140.8	2.8	32.04	3%	"	"		"
1105	25.1		7.24		8.885		2.60		141.6		32.01		"	"	6.6	"

Stop Purge Time: 1106

Sample Time: 1120

QA/QC Sample Time(s):

Sample ID: PC-130-20200507

QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/7/20	Well ID: PL-131
Field Sampler(s): B. Chhun				
Transducer Removal Time: NA		Transducer Redeployment Time: NA		General Well Condition: good
Depth to Water (ft): (12.26) 12.80	Screened Interval Top (ft): 9		Pump Intake Depth (ft): 25	
Well Depth (ft): (37.7) 37.80	Screened/Open Interval Bottom (ft): 39		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE		GW Disposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0910				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0913	27.0		6.90		14.974		2.24		142.7		133.5		200	12.0		clear/N
0918	26.9		6.87		15.126		0.91		149.7		55.1		200	12.0		clear/N
0921	27.0		6.87		15.150		0.84		151.6		49.0		200	12.0		clear/N
0924	26.9		6.87		15.146		0.80		153.1		41.0		200	17.0		clear/N
0927	26.9		6.88		15.167		0.71		155.9		29.2		200	12.0		clear/N
0930	26.9		6.88		15.169		0.67		157.3		23.1		200	12.0		clear/N
0933	26.9		6.88		15.168		0.67		157.6		22.5		200	12.0		clear/N
0936	26.9		6.88		15.156		0.64		158.1		21.1		200	12.0	5.2L	clear/N

Stop Purge Time: 0938	Sample Time: PL-131 0940	QA/QC Sample Time(s): NA 700
	Sample ID: PL-131-20200507	QA/QC Sample ID(s): NA PL-131-20200507-1137

Observations/Comments

PL

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-7-20	Well ID: PC-132
Field Sampler(s): Ron Phillips	Transducer Removal Time: NA		Transducer Redeployment Time: NA	
Depth to Water (ft): 9.97	Screened Interval Top (ft): 9.5		General Well Condition: No belts, water in vault above TOC.	
Well Depth (ft): 37.20	Screened/Open Interval Bottom (ft): 39.5		Pump Intake Depth (ft): 29.9	
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposit: GW-11		Well Diameter (in): 2"	
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Equipment Decon. Method: Alconaw/DI Rinse SOP <input checked="" type="checkbox"/>		J-plug sealed		
Purge Start Time: 10:38				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1044	27.5		7.00		12.347		0.56		178.4		175		315	9.98		Quite Turbid
1048	27.5		6.99		12.331		0.36		174.4		140			9.98		
1052	27.6		6.98		12.360		0.27		174.6		96			9.98		
1056	27.6		6.98		12.367		0.21		179.4		99			9.98		
1100	27.6		6.97		12.371		0.18		179.1		88			9.98		Less Turbid
1105	27.6		6.97		12.386		0.16		178.4		99			9.99		
1108	27.6		6.97		12.392		0.15		177.9		41			9.99		
1111	27.6		6.97		12.392		0.14		177.4		41.6			9.99		
1115	27.6		6.97		12.398		0.13		176.7		49.7			9.99		
1118	28.3		6.97		12.352		0.18		176.0		9.8			9.98		clear
1121	27.6		6.97		12.432		0.15		175.8		7.7			9.99		
1124	27.5	3%	6.97	No change	12.442	<190	0.12	All <0.5	175.3	0.7 mV	6.4	All <10 NTU		9.99	1.7	

Stop Purge Time: 1125	Sample Time: 1130	QA/QC Sample Time(s): NA
Sample ID: PC-132-20200507	QA/QC Sample ID(s): NA	

Observations/Comments: Pump Settings: Refill 11s, Disch. 9 s, pressure 35 psi, then 30

Bottle Set Summary	1	2	3	4	5	6	7	8
2x 3x VOA w/HCl	1	125 ml. Plastic sterile		500 ml. Plastic		500 ml. w/H ₂ SO ₄		500 ml. poly w/HNO ₃
1 125 ml. w/EDA	1	250 ml. Plastic		250 ml. w/H ₂ SO ₄	1	250 ml. poly w/HNO ₃		250 ml. Amber Glass w/H ₂ PO ₄
								250 ml. Amber Glass w/H ₂ SO ₄
								500 ml. Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5-6-20 Well ID: PC-134A

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA

Transducer Redeployment Time: NA

General Well Condition: Good

Depth to Water (ft): 34.70

Screened Interval Top (ft): 59.5

Pump Intake Depth (ft): 64.5

Well Depth (ft): 70.1

Screened/Open Interval Bottom (ft): 69.5

Well Diameter (in): 2"

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconex/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) ✓

New Dedicated Tubing Placed? (Y/N) N

Purge Start Time: 0955

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0900	25.3		7.25		2.754		4.04		60.5		47.5		300	34.90		St. turbid
0905	25.5		7.36		2.463		3.21		84.7		36.9		210	34.87		"
0910	25.6		7.40		2.453		2.96		84.4		26.1		240	34.88		clearer
0915	25.5		7.36		2.436		2.56		116.5		13.2			34.85		clear
0920	25.6		7.39		2.434		2.56		126.6		9.7			34.86		
0925	25.6		7.40		2.435		2.62		135.3		7.9			34.85	1	
0930	25.7	} >1% NO CHG	7.42	} NO CHG	2.437	} <1%	2.68	} <1%	143.3	} 7.6 mV	6.5	} all <10 NTU		34.85	10	
0935	25.6		7.42		2.438		2.70		147.6		6.4		34.85			
0940	25.7		7.42		2.439		2.70		150.9		5.17		34.85	11 1/2	"	

Stop Purge Time: 0941

Sample Time: 8:0947

QA/QC Sample Time(s): NA

Sample ID: PC-134A-20200506

QA/QC Sample ID(s): NA

Observations/Comments Concrete Pad is marked 135-PC-135B. J-Plug is marked PC-134A

Pump settings: Refill 11s, Discharge 9s, Pressure 48 psi, then 40

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic	250 mL w/H ₂ SO ₄	✓	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-5-20	Well ID: PC-134D
Field Sampler(s): Ron Phillips	Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Replaced one bolt, other one is broken & stuck	
Depth to Water (ft): 29.17	Screened Interval Top (ft): 79.7	Pump Intake Depth (ft): 81.7	Well Diameter (in): 4"	
Well Depth (ft): 90	Screened/Open Interval Bottom (ft): 89.7	Equipment Decon. Method: Alconox/MI Rinse SOP	✓	
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/> Y		
Purge Start Time: 10:35		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/> Y		

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1040	26.0		7.64		4.018		0.51		-75.8		2.35	315	105	29.80		clear/No
1045	25.9		7.66		4.013		0.29		7.66		2.10	285	95	30.1		
1050	26.1		7.65		4.012		0.28		-95		2.0		270	30.55		
1055	26.4		7.64		4.014		0.26		-99		1.83		140	30.82		
1100	26.8		7.63		4.018		0.29		-99.9		1.58		65	30.95		
1105	27.4		7.62		4.018		0.34		-97		1.53		53	31.05		
1110	27.5		7.63		4.017		0.42		-94		1.54		53	31.10		
1115	27.6	←1% } 0.01	7.63	} 0.01	4.018	←1% } 0.01	0.43	} 3.5	-93.7	} 3.5	1.64	} All	53	31.14		
1120	27.7		7.63		4.016		0.42		-93.8		1.75		53	31.20		
1125	27.8		7.62		4.014		0.41		-97.2		1.47		53	31.29	6.4	

Stop Purge Time: 11:26	Sample Time: 1132	QA/QC Sample Time(s): NA
Sample ID: PC-134D-20200505	QA/QC Sample ID(s): NA	

Observations/Comments

Final pump setting: 54 s refill, 6 s discharge

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic	sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic		250 mL w/H ₂ SO ₄	✓	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-5-20	Well ID: PC-135A
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: water in vault, 1' BTOC, otherwise OK		
Depth to Water (ft): 34.85	Screened Interval Top (ft): 30.4	Pump Intake Depth (ft): 42.6		
Well Depth (ft): 51.80	Screened/Open Interval Bottom (ft): 50.4	Well Diameter (in): 2"		
Pump/Tubing Type: OED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP ✓		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1236				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1240	26.3		7.11		6.495		2.65		71.1		4.30		210	34.82		clear/NO
1245	25.9		7.10		6.510		2.36		103.1		2.37		"	34.81		"
1250	25.7		7.10		6.505		2.29		122.8		2.27		"	34.81		"
1255	25.8		7.10		6.509		2.25		131.5		1.90		"	34.82		"
1300	25.9		7.09		6.509		2.22		138.0		1.72		"	34.81		"
1305	25.9		7.09		6.507		2.19		143.5		1.66		"	34.83		"
1310	25.9	} <1%	7.09	} <0.1	6.511	} <1%	2.18	} <1%	146.0	} 5.6	1.65	} All	"	34.81	} <10	"
1315	25.9		7.09		6.511		2.17		149.0		1.56		"	34.82		"
1320	26.0		7.09		6.510		2.17		151.6		1.48		"	34.82		9.2

Blow Purge Time: 1321	Sample Time: PC-135A-20200505	QA/QC Sample Time(s): NA
	Sample ID: 13:24	QA/QC Sample ID(s): NA

Observations/Comments

Pump getting = Discharge 9s, Refill 11s, Pressure 30 psi

Bottle Set Summary

2x	3x VOA w/HCl	✓	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
✓	125 mL w/EDA	✓	250 mL Plastic	250 mL w/H ₂ SO ₄	✓	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring | Task Manager: Jesse Bunkers | Task No: H02 | Date: 5/8/20 | Well ID: PC-136
 Field Sampler(s): J. Bunkers
 Transducer Removal Time: 1025 1035 | Transducer Redeployment Time: * | General Well Condition: Good
 Depth to Water (ft): ~~32.52~~ 33.18 | Screened Interval Top (ft): 21.3 | Pump Intake Depth (ft): 37.66
 Well Depth (ft): 41 | Screened/Open Interval Bottom (ft): 41.3 | Well Diameter (in):
 Pump/Tubing Type: QED Bladder Pump & TLPEALDPE | GW Disposal: GW-11 | Equipment Decon. Method: Alconox/DI Rinse SOP
 Dedicated Tubing Present? (Y/N) | New Dedicated Tubing Placed? (Y/N)
 Purge Start Time: 1058

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1041	28.9		7.76		6.526		6.86		158.2		47.08		300	33.20		clear/none
1044	27.0	} 1%	7.45	} 0.04	6.367	} 1%	6.64	} 1%	176.9	} 6.1	35.06	} 2%	"	"		"
1047	26.9		7.42		6.359		6.62		181.9		34.43		"	"		"
1050	26.8		7.41		6.358		6.64		183.0		34.26		"	"	4.2	"

Stop Purge Time: 1051 | Sample Time: 1055 | QA/QC Sample Time(s): --
 Sample ID: PC-136-20200508 | QA/QC Sample ID(s): --

Observations/Comments: Resample from 5/5

Bottle Set Summary

3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkert Task No: H02 Date: 5/5/20 Well ID: PC-136

Field Sampler(s): J Burkert

Transducer Removal Time: 0725 Transducer Redeployment Time: 08005 General Well Condition: Good

Depth to Water (ft): 33.18 Screened Interval Top (ft): 21.3 Pump Intake Depth (ft): 37.66

Well Depth (ft): 41 Screened/Open Interval Bottom (ft): 41.3 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Y Dedicated Tubing Present? (Y/N) N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0753

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0737	24.2		7.55		6.320		6.84		130.9		17.09		300	33.18		clear/none
0740	24.4		7.37		6.323		6.71		142.7		18.83		"	"		"
0743	24.5		7.33		6.321		6.67		151.2		16.13		"	"		"
0746	24.5		7.32		6.326		6.67		157.8		9.30		"	"		"
0749	24.5	0	7.31	0.01	6.328	<1%	6.66	<1%	163.4	60	9.82	<10	"	"		"
0752	24.5		7.31		6.330		6.66		164.4		9.32		"	"	6	"

Stop Purge Time: 0755 Sample Time: 0755 QA/QC Sample Time(s): - 0750

Sample ID: PC-136-20200506 QA/QC Sample ID(s): - PC-136-20200506-T35

Observations/Comments

Bottle Set Summary

Count	Parameter	Container	Volume	Material
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃
				500 mL poly w/HNO ₃
				250 mL Amber Glass w/H ₂ SO ₄
				250 mL Amber Glass w/H ₃ PO ₄
				500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/5/20	Well ID: PC-137
Field Sampler(s): <u>J. Bunkers</u>				
Transducer Removal Time: <u>1245</u>	Transducer Redeployment Time: <u>1315</u>	General Well Condition: <u>Good</u>		
Depth to Water (ft): <u>32.50</u>	Screened Interval Top (ft): <u>62.9</u>	Pump Intake Depth (ft): <u>67.9</u>		
Well Depth (ft): <u>74.53</u>	Screened/Open Interval Bottom (ft): <u>72.9</u>	Well Diameter (in): <u>2</u>		
Pump/Tubing Type: <u>OED Bladder Pump & TLPEALDPE</u>	GW Disposal: <u>GW-11</u>	Equipment Decon. Method: <u>Alconox/DI Rinse SOP</u>		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1306

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1309	28.3		7.56		3.648		1.55		-176.1		305.25		2.0	3256		cloudy/trace
1312	26.9		7.66		4.069		0.95		-156.1		225.53		"	"		" egg odor
1315	26.8		7.70		4.120		0.68		-147.9		150.93		"	"		"
1318	26.4		7.69		4.111		0.65		-163.4		146.87		"	"		"
1321	26.4		7.68		4.095		0.64		-160.4		56.92		"	"		clear/egg
1324	26.5	} <1%	7.64	} <0.1	4.067	} <1%	0.62	} 0	-165.4	} 1.4	30.02	} 18%	"	"		"
1327	26.5		7.63		4.049		0.62		-165.4		32.65		"	"		
1330	26.6		7.63		4.045		0.62		-164.0		31.73		"	"	5.0	

Stop Purge Time: <u>1331</u>	Sample Time: <u>1335</u>	QA/QC Sample Time(s): <u>✓</u>
	Sample ID: <u>PC-137-20200505</u>	QA/QC Sample ID(s): <u>—</u>

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/6/20 Well ID: PC-137D

Field Sampler(s): J Bunkers

Transducer Removal Time: 0812 Transducer Redeployment Time: 0828 900 General Well Condition: Good

Depth to Water (ft): 30.68 Screened Interval Top (ft): 79.4 Pump Intake Depth (ft): 84.6

Well Depth (ft): 89.5 Screened/Open Interval Bottom (ft): 89.10 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0828

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0834	24.9		7.54		4.270		2.11		-82.5		1.11		100	30.80		clear/none
0837	24.9		7.57		4.271		3.20		-81.6		1.67		"	30.85		"
0840	25.0		7.58		4.272		4.63		-67.0		1.24		"	30.90		"
0843	25.1	0	7.55	0.01	4.265	2.1%	5.64	8%	-44.9	44	1.73	<10	"	"		"
0846	25.1		7.55		4.262		5.82		-42.6		1.65		"	"		
0849	25.1		7.54		4.263		5.92		-40.5		1.75		"	"	2.3	"

Stop Purge Time: 0850 Sample Time: 0855 QA/QC Sample Time(s): -

Sample ID: PC-137D-20200506 QA/QC Sample ID(s): -

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₃ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/7/20 Well ID: PC-142

Field Sampler(s): Dylan Davis

Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: good

Depth to Water (ft): 31.80 Screened Interval Top (ft): 24.3 Pump Intake Depth (ft): 32.5

Well Depth (ft): 39.04 Screened/Open Interval Bottom (ft): 34.3 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0915

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0916	25.2		7.19		5.474		4.39		218.0		5.4		320	31.81	0.32	
0919	24.8		7.18		5.388		3.40		207.4		5.8		320	31.81	1.6	
0922	24.6		7.18		5.366		3.32		200.1		4.0		320	31.81	2.88	
0925	24.9		7.18		5.390		3.29		192.2		3.3		320	31.81	4.16	
0928	24.5		7.18		5.358		3.14		182.2		2.7		320	31.81	5.44	
0931	24.5		7.18		5.358		3.07		175.4		2.7		320	31.81	6.72	
0934	24.5		7.18		5.359		3.00		166.8		2.6		320	31.81	8.00	
0937	24.5	0.0	7.18	0.0	5.362	<1.0%	3.06	<1.0%	161.1	9.2	2.7	<10	320	31.81	9.28	
0940	24.5		7.19		5.363		3.02		152.6		2.6		320	31.81	10.56	

Stop Purge Time: 0940 Sample Time: 0941 QA/QC Sample Time(s): 0941

Sample ID: PC-142-20200507 QA/QC Sample ID(s): PC-142-20200507-FB8

Observations/Comments

Bottle Set Summary

42	3x VOA w/HCl	2 #	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
24	125 mL w/EDA	2 #	250 mL Plastic	2 #	250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Burkers Task No: H02 Date: 5-6-20 Well ID: PC-143

Field Sampler(s): Ben Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: All 3 bolts missing, slip cap on casing

Depth to Water (ft): 35.16 Screened Interval Top (ft): 29.7 Pump Intake Depth (ft): 50 (49.9)

Well Depth (ft): 65 Screened/Open Interval Bottom (ft): 69.7 Well Diameter (in): 2"

Pump/Tubing Type: OED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1245

Time	Temp. (°C)		pH (pH Units)		Conductivity (µmhos/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (min/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1250	25.7		7.14		6.311		4.28		172.2		12.4		320	35.19		clear/NO
1255	25.6		7.11		6.317		4.13		178.9		7.30		"	35.18		
1300	25.5		7.10		6.315		4.07		182.8		5.21		"	35.18		
1305	25.6	0%	7.10	NO change	6.314	0%	4.04	0%	186.2	-3mV	3.95	<10 NTU	320	35.18	11	↓
1310	25.6		6.314		4.03		187.9		3.21		35.18					
1315	25.6		6.313		4.02		189.2		2.77		35.18					

Stop Purge Time: 1316 Sample Time: 1321 QA/QC Sample Time(s): NA

Sample ID: PC-143-20200506 QA/QC Sample ID(s): NA

Observations/Comments: Pump settings Refill 11 s, Discharge 9 s, Pressure 42 psi

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-5-20 Well ID: PC 144

Field Sampler(s): Bon Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 34.70 Screened Interval Top (ft): 29.4 Pump Intake Depth (ft): 37.0

Well Depth (ft): 39.3 BTOC Screened/Open Interval Bottom (ft): 39.4 Well Diameter (in): 2"

Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0850

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0855	26.0		7.20		6.459		3.42		169		18.0		90	34.75		sl. turbid
0900	26.1		7.18		6.429		2.43		170.3		8.9		"	34.75		clearer
0905	26.1		2.18		6.411		2.78		170.1		6.4		"	34.75		
0910	26.1	0%	7.17	change	6.397	<1%	2.79	4%	168.9	0.02 mV	3.97	<10 NTU	"	34.75		
0915	26.1		7.17		6.405		2.89		168.7		3.3		"	34.78		
0920	26.1		7.17		6.409		2.90		168.7		3.0		"	34.77	2 3/4	

Stop Purge Time: 0921 Sample Time: 0925 QA/QC Sample Time(s): NA

Sample ID: PC-144-20200505 QA/QC Sample ID(s): NA

Observations/Comments
Pump: 11g Refill, 9 discharge, 30 PSI

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 4 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: H02	Date: 5/6/20	Well ID: PC-145
Field Sampler(s): J Burkens				
Transducer Removal Time: —	Transducer Redeployment Time: —	General Well Condition: Good		
Depth to Water (ft): 33.20	Screened Interval Top (ft): 24.5	Pump Intake Depth (ft): 37.3 / 36.7		
Well Depth (ft): 40.7	Screened/Open Interval Bottom (ft): 41.5	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1120				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1124	26.3		7.16		8.696		73.07		682.64				220	33.20		clear/none
1127	25.8		7.18		8.724		69.20		678.22				"	"		"
1130	25.8		7.19		8.730		68.34		679.10				"	"		"
1133	25.8		7.20		8.743		68.01		680.01		3.27		"	"		"
1136	25.8	26.4	7.21	7.30	8.730	8.562	67.92	5.41	682.22	116.2	1.30		"	"		"
1139	25.8	26.3	7.21	7.25	8.736	8.555	67.48	5.37	684.70	121.9	1.72		"	"		"
1142	25.8	26.3	7.22	7.22	8.734	8.547	67.16	5.34	687.82	130.6	1.15		"	"		"
1145	25.8	26.3	7.22	7.20	8.734	8.552	67.25	5.31	688.43	139.1	1.89		"	"		"
1148	25.8	26.3	7.22	7.20	8.733	8.553	67.23	5.31	690.75	141.1	2.16		"	"		"
1151	25.9	26.4	7.22	7.20	8.729	8.548	67.00	5.30	691.61	143.5	3.13		"	"		"
1154	25.8	26.4	7.23	7.20	8.726	8.551	66.91	5.28	695.07	145.1	4.52		"	"	7.482	"

Stop Purge Time: 1155	Sample Time: 1215	QA/QC Sample Time(s): —
	Sample ID: PC-145-20200506	QA/QC Sample ID(s): —

Observations/Comments
EXO 8AD at 1142, EXO Read out needs time, turb, DO in mg/L, ORP in mV, Stable/Not Stable

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/6/20	Well ID: PL-146
Field Sampler(s): B. Chhun				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A		General Well Condition: good	
Depth to Water (ft): 30	Screened Interval Top (ft): 19.5		Pump Intake Depth (ft): N/A	
Well Depth (ft): 30.15	Screened/Open Interval Bottom (ft): 29.5		Well Diameter (in): 2	
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP	
Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		
Purge Start Time:				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
INSUFFICIENT WATER TO SAMPLE																

Stop Purge Time:	Sample Time:	QA/QC Sample Time(s):
	Sample ID:	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary										
3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/6/20 Well ID: PC-148

Field Sampler(s): A. Johnson

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 31.72 Screened Interval Top (ft): 24.4 Pump Intake Depth (ft): 28

Well Depth (ft): 50.51 Screened/Open Interval Bottom (ft): 44.4 Well Diameter (in): 6

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Deposit: GW-11 Equipment Decor. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 11:24

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1126	28.4		7.01		6.489		2.02		150.4		0.0		160	31.78	0.32	none/none
1129	28.2		6.98		6.469		1.57		162.8		0.0		160	31.81	1.28	" "
1132	28.7		6.97		6.507		1.51		173.5		0.0		120	31.87	1.4	" "
1135	29.0		6.98		6.558		1.46		185.7		0.0		120	31.91	1.52	" "
1138	28.8	2.1	6.96	2.0	6.532	6.1	1.42	7.4	190.0	4.7	0.0	<10 NTU	120	31.96	1.64	" "
1141	29.9		6.96		6.530		1.36		195.4	4.7	0.0		120	32.00	1.76	" "

Stop Purge Time: 11:42 Sample Time: 11:45 QA/QC Sample Time(s): _____

Sample ID: PC-148-20200506 QA/QC Sample ID(s): _____

Observational Comments: _____

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/6/20 Well ID: PL-149

Field Sampler(s): A. Long

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: 910d

Depth to Water (ft): 33.00 Screened Interval Top (ft): 24.4 Pump Intake Depth (ft): 38.7

Well Depth (ft): 50.38 Screened/Open Interval Bottom (ft): 44.4 Well Diameter (in): 6

Pump/Tubing Type: OED Bladder Pump & TLPEALPE GW Disposal: GW-11 Equipment Decon. Method: Alconax/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1319

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1320	34.0		7.39		3.960		3.96		176.7		1.5		200	33.06	0.2	none/none
1323	29.6		7.24		3.749		1.19		159.9		2.9		100	33.10	0.5	" "
1326	29.7		7.24		3.834		0.99		169.7		6.2		100	33.13	0.9	" "
1329	30.0		7.24		3.844		1.08		172.1		8.8		100	33.18	1.1	" "
1333	29.6		7.24		3.841		0.84		188.4		2.0		100	33.22	1.4	" "
1336	29.6	} 0.1	7.23	} 0.1	3.807	} 1.1%	0.82	} 7.1%	193.5	} 7.8	0.5		100	33.25	1.7	" "
1339	29.4		7.23		3.800		0.78		196.2		0.0	<10 NTU	100	33.29	" "	

Stop Purge Time: 1340 Sample Time: 1342 QA/QC Sample Time(s): _____

Sample ID: PL-149-20200506 QA/QC Sample ID(s): _____

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/19/20	Well ID: PC-151
Field Sampler(s): J Chhun				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): (18.91) 7.13	Screened Interval Top (ft): 7.8	Pump Intake Depth (ft): 17.8		
Well Depth (ft): (29.5) 28.0	Screened/Open Interval Bottom (ft): 27.8	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decan. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1140				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1145	25.0		7.17		5.904		4.31		117.7		107.8		200	7.20		clear/N
1147	25.5		7.07		5.456		1.27		132.9		49.9		200	7.20		clear/N
1152	25.1		7.01		5.408		0.90		136.5		48.0		200	7.20		clear/N
1155	25.3		7.01		5.422		0.86		137.1		37.9		200	7.20		clear/N
1158	25.3		7.01		5.428		0.83		137.4		38.3		200	7.20		clear/N
1201	25.4	±1.0	7.01	0.01	5.442	±1%	0.81	5%	137.5	±0.8	29.9	±1%	200	7.20		clear/N
1204	25.3		7.02		5.423		0.79		137.6		28.6		200	7.20	4.8L	clear/N

Stop Purge Time: 1205	Sample Time: 1206	QA/QC Sample Time(s): NA NA
Sample ID: PC-151-20200507	QA/QC Sample ID(s): NA PC NA	BC

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkens	Task No: M02	Date: 5/7/20	Well ID: PC-152
Field Sampler(s): J. Burkens				
Transducer Removal Time: 1133	Transducer Redeployment Time: 1215		General Well Condition: Good	
Depth to Water (ft): 829	Screened Interval Top (ft): 9.6		Pump Intake Depth (ft): 19.6	
Well Depth (ft): 295	Screened/Open Interval Bottom (ft): 29.6		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP	
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1137				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mv)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1140	29.8		7.57		5.704		4.54		125.8		210.22		300	8.30		clear/none
1143	28.5		7.37		5.574		2.81		138.4		212.13		"	"		"
1146	28.3		7.27		5.533		2.04		146.9		201.35		"	"		"
1149	27.9		7.25		5.524		1.877		147.8		174.67		"	"		"
1152	25.0		7.23		5.519		1.75		146.1		124.88		"	"		"
1155	27.9	<1%	7.23	0	5.514	<1%	1.74	<1%	145.9	0.6	125.82	1%	"	"		"
1158	28.0		7.23		5.517		1.73		145.5		123.09		"	"	6.6	"

Stop Purge Time: 1159	Sample Time: 1205	QA/QC Sample Time(s):
	Sample ID: PC-152-20200507	QA/QC Sample ID(s):

Observations/Comments
No odor start time 1200

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Benkers Task No: H02 Date: 5-7-20 Well ID: PC-153R

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good - Bolts are almost too short to thread

Depth to Water (ft): 9.95 Screened Interval Top (ft): 10 Pump Intake Depth (ft): 19.8

Well Depth (ft): 29.5 Screened/Open Interval Bottom (ft): 30 Well Diameter (in): 2

Pump/Tubing Type: QED Studder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconex/DI Rinse SOP ✓

✓ Dedicated Tubing Present? (Y/N) N New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 12:04

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1210	25.1		7.32		6.091		0.87		172.7		125		300	9.55		Turbid
1215	26.0		7.31		6.105		0.83		174.5		120			9.55		
1220	26.0		7.30		6.146		0.68		174.9		119			9.55		
1225	26.1		7.29		6.184		0.59		174.9		67			9.55		clearer
1230	26.1		7.28		6.199		0.53		174.6		57			9.56		
1235	26.0		7.28		6.214		0.47		174.0		47			9.56		
1240	25.8		7.27		6.225		0.41		173.4		41			9.56		
1245	26.0		7.26		6.285		0.36		173.1		43			9.56		
1249	26.0		7.27		6.231		0.35		172.7		38			9.56		
1253	26.0		7.27		6.240		0.33		172.5		38			9.56		
1256	26.0	NO change	7.27	NO change	6.244	< 10%	0.32	All < 0.5 mg/L	172.3	0.4 mV	38	5.5%		9.56	14	

Stop Purge Time: 1257 Sample Time: 1300 QMDC Sample Time(s): NA

Sample ID: PC-153R-20200507 QMDC Sample ID(s): NA

Observations/Comments: Pump settings: Refill 11s, Disch. 9s, Pressure 35-40 PSI

Bottle Set Summary

Count	Container	Volume	Material	Volume	Material	Volume	Material	Volume	Material
2 x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄		
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass		

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or < 0.5 mg/L for DO; ± 10% or < 10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkens Task No: H02 Date: 5/8/20 Well ID: PC-154
 Field Sampler(s): D. DAVIS
 Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good
 Depth to Water (ft): 19.00-10.01 Screened Interval Top (ft): 7.7 Pump Intake Depth (ft): 16ft
 Well Depth (ft): 22.36 Screened/Open Interval Bottom (ft): 22.7 Well Diameter (in): 2
 Pump/Tubing Type: OED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP
 Dedicated Tubing Present (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1225

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1226	25.4		7.09		5.764		2.50		82.1		58.5		280	10.10	780	clear/none
1229	24.1		7.12		5.602		1.70		102.3		38.5		280	10.11	1.4	
1232	23.8		7.10		5.537		1.82		116.9		16.7		280	10.11	2.52	
1235	23.6		7.09		5.511		1.81		124.8		10.4		280	10.11	3.64	
1238	23.5	<1.0%	7.08	<0.1	5.444	0.3%	1.79	1.11%	127.8	3.6	8.2	2.5	280	10.11	4.76	
1241	23.5		7.08		5.444		1.80		128.2		7.9		280	10.11	5.88	v. n

Stop Purge Time: 1242 Sample Time: 1243 QA/QC Sample Time(s): 1243
 Sample ID: PC-154-20200508 QA/QC Sample ID(s): ~~PC-154-20200508-EB9~~

Observations/Comments: PC-154-20200508-EB9

Bottle Set Summary

Quantity	Material	Volume	Material	Volume	Material	Volume	Material	Volume	
24	3x VOA w/HCl	2	125 mL Plastic	2	500 mL Plastic	2	500 mL w/H ₂ SO ₄	2	500 mL poly w/HNO ₃
32	125 mL w/EDA	2	250 mL Plastic	2	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	2	250 mL Amber Glass w/H ₂ SO ₄
									500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Burkers Task No: H02 Date: 5/4/20 Well ID: PC-155A
 Field Sampler(s): Audrey Crackett
 Transducer Removal Time: 1203 Transducer Redeployment Time: 1415 General Well Condition: Good
 Depth to Water (ft): 12.69 Screened Interval Top (ft): 3 Pump Intake Depth (ft): 22.7
 Well Depth (ft): 32.3 Screened/Open Interval Bottom (ft): 33 Well Diameter (in): 2
 Pump/Tubing Type: QED Bladder Pump & TLPEADPE GW Disposit: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP
 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1252

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1302	27.9		7.14		3.979		1.50		127.2		14.31		165	12.44	1.65	none/none
1305	28.9		7.15		3.986		2.06		93.8		9.75		180	12.44	2.19	none/none
1310	28.3		7.15		3.983		2.04		127.4		6.49		180	12.44	3.09	none/none
1315	27.6		7.17		3.977		2.19		143.2		2.03		180	12.44	3.99	none/none
1320	27.9		7.17		3.981		2.26		151.6		5.14		180	12.44	4.89	none/none
1325	27.8		7.19		3.967		2.35		157.6		4.77		180	12.44	5.79	none/none
1330	26.9	} 2.4%	7.19	} ±0.1	3.990	} 0.3%	2.20	} 9.5%	162.8	} ±10	4.80	} <1.0	180	12.44	6.69	none/none
1335	28.4		7.18		3.981		1.88		167.4		8.09		180	12.44	7.59	none/none
1338	28.2		7.18		3.978		1.99		169.7		6.97		180	12.44	8.13	none/none

Stop Purge Time: 1339 Sample Time: 1345 QA/QC Sample Time(s): NA
 Sample ID: PL-155A-20200504 QA/QC Sample ID(s): NA

Observations/Comments: NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HDZ	Date: 5/5/20	Well ID: PC-155B
Field Sampler(s): A. Crockett				
Transducer Removal Time: 0456	Transducer Redeployment Time: 1211	General Well Condition: Good		
Depth to Water (ft): 12.20	Screened Interval Top (ft): 41.2	Pump Intake Depth (ft): 46.05		
Well Depth (ft): 50.90	Screened/Open Interval Bottom (ft): 51.2	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alcon/DH Ripse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1054				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1054	22.9		7.14		3.937		1.45		191.8		7.87		300	12.20	0.9	None/None
1100	22.9		7.15		3.937		0.35 ^{see}		182.4		2.74		300	12.20	1.8	N/N
1103	22.7		7.15		3.930		0.41		177.9		2.27		300	12.20	2.7	N/N
1106	22.8		7.15		3.934		0.35		174.9		1.92		300	12.20	3.6	N/N
1109	22.7	0.44%	7.15	0%	3.937	0.18%	0.30	50.5	172.6	5.3 _{mv}	1.6	<10 NTU	300	12.20	4.5	N/N

Stop Purge Time: 1110	Sample Time: 1118	QA/QC Sample Time(s): NA
	Sample ID: PC-155B-20200505	QA/QC Sample ID(s): NA

Observations/Comments

*Placed new tubing due to shortened existing tubing.

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic [®]	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/5/20 Well ID: PC-156A

Field Sampler(s): A. Crockett	Transducer Removal Time: 1246	Transducer Redeployment Time: 1415	General Well Condition: 6000
Depth to Water (ft): 7.85	Screened Interval Top (ft): 21.9	Pump Intake Depth (ft): 17.9	
Well Depth (ft): 22.91	Screened/Open Interval Bottom (ft): 22.9	Well Diameter (in): 2	
Pump/Tubing Type: OED bladder Pump & TLPELDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconex/DI Rinse SOP	

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1306

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1310	21.6		7.04		3.408		0.57		177.8		25.81		300	7.99	1200	NONE/NONE
1313	21.3		7.04		3.404		0.42		179.0		16.60		300	7.99	2.1	NONE/NONE
1316	21.2		7.04		3.401		0.33		177.4		9.56		300	7.99	3.0	NONE/NONE
1319	21.1		7.04		3.406		0.29		175.9		8.34		300	7.99	3.9	NONE/NONE
321	21.2	0.47%	7.04	0%	3.399	0.21%	0.26	<0.5	174.8	2.6mV	6.14	<10 NTU	300	7.99	4.5	NONE/NONE

Stop Purge Time: 1323 Sample Time: 1328 QA/QC Sample Time(s): NA

Sample ID: PC-156A-2020505 QA/QC Sample ID(s): NA

Observations/Comments: NA

Bottle Set Summary

2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/6/20 Well ID: PC-156B

Field Sampler(s): Andrew Crockett

Transducer Removal Time: 0709 Transducer Redeployment Time: 0945 General Well Condition: GOOD

Depth to Water (ft): 9.83 (10.15) Screened Interval Top (ft): 284 Pump Intake Depth (ft): 38

Well Depth (ft): 47.41 (47.4) Screened/Open Interval Bottom (ft): 484 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0736 - 0738 - Pulled pump to get strong (had fallen down in well) 0812

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (Ac/L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0815	22.8		7.50		2.99		11.19		144.2		367.9		150	9.85	1.26	N/N
0822	21.2		7.37		3.000		8.61		141.3		239.4		180	9.85	1.26	N/N
0825	21.3		7.35		2.998		7.88		141.9		166.52		150	9.84	1.71	N/N
0828	21.3		7.33		2.999		7.15		142.8		156.96		150	9.85	2.16	N/N
0831	21.4		7.28		3.002		5.41		143.8		87.37		150	9.85	2.61	N/N
0834	21.4		7.26		3.002		4.21		144.0		83.06		150	9.85	3.06	N/N
0837	21.5		7.25		3.003		3.42		144.1		61.78		150	9.85	3.51	N/N
0840	21.7		7.25		3.002		3.16		144.2		68.52		150	9.85	3.96	N/N
0843	21.8		7.24		3.010		2.74		144.7		70.73		150	9.85	4.41	N/N
0846	21.8		7.24		3.011		2.62		144.9		58.15		150	9.85	4.86	N/N
0849	21.9		7.24		3.011		2.57	6.6	145.2		59.50		150	9.85	5.31	N/N
0852	22.1	1.38	7.24	0	3.03	0.07	2.58	1.9%	145.7	0.8	63.50	7.35%	150	9.85	5.76	N/N

Stop Purge Time: 0855 Sample Time: 0856 QA/QC Sample Time(s): 0916

Sample ID: PC-156B-20200506 QA/QC Sample ID(s): PC-156B-20200506-E.B5

Observations/Comments: had to pull pump again - kept making bubbles - didn't push tubing in far enough

Bottle Set Summary							
2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task Nr: H02	Date: 5/5/20	Well ID: PC-157A
Field Sampler(s): J. Bunkers				
Transducer Removal Time: 0639	Transducer Redeployment Time: 0724	General Well Condition: Good		
Depth to Water (ft): 9.88	Screened Interval Top (ft): 12.1	Pump Intake Depth (ft): 19.6		
Well Depth (ft): 27.16	Screened/Open Interval Bottom (ft): 27.1	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0655

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0658	19.1		7.86		3.137		1.50		138.7		1.33		300	9.90		clear/wh
0701	19.0		7.37		3.133		0.59		146.3		0.20		"	"		"
0704	19.0		7.25		3.132		0.37		147.2		0.01		"	"		"
0707	19.0		7.22	0.1	3.132	0	0.31	4.5	146.5	1.1	0.21	<10	"	"		"
0710	19.0		7.21		3.132		0.30		146.1		0.09		"	"	4.5	"

Stop Purge Time: 0711	Sample Time: PC-157A-20200505	QA/QC Sample Time(s): 0720
	Sample ID: 0714	QA/QC Sample ID(s): PC-157A-20200505-FB5

Observations/Comments

NA

Bottle Set Summary

4	3x VOA w/HCl	2	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic	250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃	500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/5/20	Well ID: PC-157B
Field Sampler(s): J. Bunkers				
Transducer Removal Time: 0834	Transducer Redeployment Time: 0925	General Well Condition: Good		
Depth to Water (ft): 10.01	Screened Interval Top (ft): 33.1	Pump Intake Depth (ft): 38.0		
Well Depth (ft): 42.92	Screened/Open Interval Bottom (ft): 43.1	Well Diameter (in): 2		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0851

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0834	22.3		7.44		3.895		0.86		169.7		385.91		300	10.01		clear/none
0857	22.4		7.29		3.890		0.53		170.6		530.67		"	"		clear/none
0900	22.5		7.25		3.887		0.43		169.5		277.50		"	"		"
0903	22.5		7.24		3.883		0.37		168.0		394.0		"	"		"
0906	22.9		7.23		3.907		0.30		142.5		39.23		"	"		"
0909	22.9	0	7.23		3.907		0.28		137.0		24.30		"	"		"
0912	22.9	0	7.22	<.1	3.907		0.26	<.5	133.2	6.7	22.93	8%	"	"		"
0915	22.9		7.22		3.907		0.25		130.3		22.54		"	"	7.2	"

Stop Purge Time: 0916	Sample Time: 0920	QA/QC Sample Time(s): -
	Sample ID: PC-157B-20200505	QA/QC Sample ID(s): PC-157B-20200505-TB3

Observations/Comments

NA

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: PL-158

Field Sampler(s): Dylan Davis

Transducer Removal Time: _____ Transducer Redeployment Time: _____ General Well Condition: Good

Depth to Water (ft): 12.5 Screened Interval Top (ft): 6.7 Pump Intake Depth (ft): 16.5

Well Depth (ft): 20.77 Screened/Open Interval Bottom (ft): 21.7 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N) 0.90

Purge Start Time: 1018

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1019	25.6		7.12		5.738		5.02		111.3		20.3		360	12.13	0.36	clear/none
1022	25.5		7.14		5.644		3.65		124.2		7.4		360	12.12	1.8	
1025	25.3		7.14		5.610		3.57		132.5		4.9		360	12.12	3.24	
1028	22.2	<1.0%	7.14	0.01%	5.602	<1%	3.54	1.1%	136.8	6.0	4.4	0.4	360	12.12	4.68	
1031	22.3		7.13		5.609		3.51		138.5		4.5		360	12.12	6.12	

Stop Purge Time: 1032 Sample Time: 1033 QA/QC Sample Time(s): _____

Sample ID: PL-158-20200508 QA/QC Sample ID(s): _____

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4		250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: PC-159

Field Sampler(s): Dylan Davis

Transducer Removal Time: _____ Transducer Redeployment Time: _____ General Well Condition: Good

Depth to Water (ft): 14.58 Screened Interval Top (ft): 9.6 Pump Intake Depth (ft): 20 ft

Well Depth (ft): 25.45 Screened/Open Interval Bottom (ft): 24.6 Well Diameter (in): 2.0"

Pump/Tubing Type: QED Bladder Pump & TLPEALOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (N) Yes New Dedicated Tubing Placed? (Y) Yes

Purge Start Time: 0855

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0856	22.8		7.34		5.127		3.56		206.3		124.4		320	14.60	0.32	clear/odor
0859	21.1		7.15		4.917		1.20		205.6		57.2		320	14.62	1.6	
0902	21.1		7.13		4.901		0.94		198.0		28.2		320	14.62	2.80	
0905	21.1		7.13		4.903		0.93		197.3		26.2		320	14.62	4.16	
0908	20.9	<1%	7.13	0.0	4.903	<1%	0.96	3.2x	190.2	8.0	18.1	9.6	320	14.62	5.44	
0911	20.9		7.13		4.902		0.95		189.3		16.6		320	14.62	6.72	" "

Stop Purge Time: 0912 Sample Time: 0915 QA/QC Sample Time(s): _____

Sample ID: PC-159-20200508 QA/QC Sample ID(s): _____

Observations/Comments: _____

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	1	500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4		250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/8/20	Well ID: PC-160
Field Sampler(s): Dylan Davis				
Transducer Removal Time:	Transducer Redeployment Time:	General Well Condition: Good, no protector lock		
Depth to Water (ft): 13.85	Screened Interval Top (ft): 10.7	Pump Intake Depth (ft): 19.3 ft		
Well Depth (ft): 24.73	Screened/Open Interval Bottom (ft): 29.7	Well Diameter (in): 24		
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
Dedicated Tubing Present? (Y/N)		New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0736				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0737	23.3		7.09		5.352		1.02		242.4		71.1		400	13.87	0.40	None/clar
0740	23.3		7.09		5.354		0.60		231.1		49.9		400	13.87	2.0	
0743	23.3		7.09		5.356		0.52		273.6		79.9		400	13.87	3.6	
0746	23.4		7.09		5.360		0.46		213.4		26.8		400	13.87	5.2	5.2
0749	23.3		7.09		5.361		0.45		206.3		21.1		400	13.87	6.8	6.8
0751	23.3	0.0	7.09	0.0	5.363	<1.0%	0.43	<1.0%	199.4	8.4	18.1	4.6	400	13.87	8.4	
0754	23.3		7.09		5.364		0.43		197.9		16.5		400	13.87	10.0	

Stop Purge Time: 0754	Sample Time: 0755	QA/QC Sample Time(s):
	Sample ID: PC-160-20200508	QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL WEDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: PC-188

Field Sampler(s): *A. Morgan*

Transducer Removal Time: *NA* Transducer Redeployment Time: *NA* General Well Condition: *good*

Depth to Water (ft): *31.01* Screened Interval Top (ft): *50* Pump Intake Depth (ft): *55*

Well Depth (ft): *60.11* Screened/Open Interval Bottom (ft): *60* Well Diameter (in): *4*

Pump/Tubing Type: QED Bladder Pump & TLPE/LOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: *0912*

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0914	25.9		7.62		2.354		6.57	0.2	86.9		9.4		120	31.14	0.12	None/none
0917	26.1		7.57		2.368		6.73		83.7		7.2		100	31.21	0.42	" "
0920	26.2		7.56		2.374		6.81		96.7		5.4		100	31.25	0.77	" "
0923	26.1	} 2.17	7.54	} 0.1	2.379	} 0.1	7.19	} 8.77	100.4	} 7.4	5.0	} 2.10	100	31.28	1.02	" "
0926	26.0		7.54		2.375		6.61		104.1		4.4		100	31.30	1.32	" "

Stop Purge Time: *0927* Sample Time: *0930* QA/QC Sample Time(s): _____

Sample ID: *PC-188-2020508* QA/QC Sample ID(s): _____

Observations/Comments

Bottle Set Summary

2	1x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Burkars Task No: H02 Date: 5/8/20 Well ID: PC-184

Field Sampler(s): A. Morgan Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 30.11 Screened Interval Top (ft): 50 Pump Intake Depth (ft): 55

Well Depth (ft): 60.00 Screened/Open Interval Bottom (ft): 60 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: AlconexDI Rinse SOP

✓ Dedicated Tubing Present? (Y/N) ✓ New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 10:24

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
10:28	29.5		7.21		6.177		5.74		100.4		6.7		120	30.16	0.48	None/none
10:31	29.4		7.13		6.266		5.68		105.7		9.0		120	30.33	0.84	" "
10:34	29.5		7.16		6.251	1.4%	5.59		113.0		5.9		100	30.40	1.14	" "
10:37	30.2		7.16		6.305		5.44		116.4		4.7		100	30.47	1.41	" "

Stop Purge Time: 10:39 Sample Time: 10:53 QA/QC Sample Time(s):

Sample ID: PC-184-20200508 QA/QC Sample ID(s):

Observations/Comments: unable to stabilize draw down. < 0.3 ft change. At least two system volumes purged. Allowed 15 min recharge prior to sample.

Bottle Set Summary

1	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H3PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-21-20 Well ID: PC-191

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 9.80 Screened Interval Top (ft): 10 Pump Intake Depth (ft): 17 1/2

Well Depth (ft): 25.60 Screened/Open Interval Bottom (ft): 25 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

N Dedicated Tubing Present? (Y/N) Y New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 12:25

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1230	25.5		7.04		6.012		3.32		87.1		69.6		260	9.80	Clear/NO	
1235	24.9		7.06		6.082		2.63		117.6		61.8		300	9.80		
1240	24.7		7.07		6.105		2.60		141.7		13.2		300	9.80		
1244	24.7		7.08		6.113		2.62		145.3		12.5		300	9.80		
1249	24.6		7.08		6.112		2.64		151.5		8.2		300	9.80		
1252	24.6		7.08		6.119		2.62		155.1		7.7		300	9.80		
1255	24.6	NO change	7.08	NO change	6.117	<1%	2.70	3%	160.2	8.7 mV	8.0	All <10 NTU	300	9.80		

Stop Purge Time: 1257 Sample Time: 1300 QA/QC Sample Time(s): -

Sample ID: PC-191-20200521 QA/QC Sample ID(s): -

Observations/Comments: Final pump settings Refill 10 sec, Disch. 10 sec, pressure ~40 psi

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	500 mL Amber Glass w/H3PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-21-20 Well ID: PC-195

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 28.76 Screened Interval Top (ft): 60 Pump Intake Depth (ft): 6 7/2 BGS

Well Depth (ft): 78 BIOC 76 BGS Screened/Open Interval Bottom (ft): 75 Well Diameter (in): 4"

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0930

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0936	24.8		7.45		2.874		1.53		107.6		6.4		95	28.85		Clear/NO
0941	24.8		7.44		2.872		1.42		113.0		7.4		95	28.86		
0946	24.9		7.44		2.865		1.35		117.0		5.0	150	150	28.89		
0951	24.8		7.44		2.850		1.25		119.7		4.7	150	150	28.90		
0956	24.6		7.44		2.845		1.17		122.0		4.5		150	28.92		
1000	24.6		7.45		2.843		1.11		123.7		4.6		150	28.92		
1003	24.6	No change	7.45	0.01 unit	2.844	<1%	1.08	8%	125.1	3.1 mV	4.1	All <10 NTU	150	28.92	4	

Stop Purge Time: 1004 Sample Time: 1007 QA/QC Sample Time(s): 845

Sample ID: PC-195-20200521 QA/QC Sample ID(s): PC-195-20200521-TB23

Observations/Comments: Pump settings: Refill 23 sec, disch 7 sec, pressure 78 PSI

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-21-20 Well ID: PC-196

Field Sampler(s): Ron Phillips

Transducer Removal Time: Transducer Redeployment Time: NA General Well Condition: Good

Depth to Water (ft): 29.52 Screened Interval Top (ft): 00 Pump Intake Depth (ft): 68 BGS

Well Depth (ft): 78.9 B10C ~ 76 BGS Screened/Open Interval Bottom (ft): 75 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1048

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1053	25.6		7.66		2.926		3.30		56.7		15.2		140	29.62		clear/NO ↓
1058	25.7		7.63		2.946		0.99		71.1		16.1		100	29.73		
1102	25.9		7.63		2.947		0.82		63.6		17.0		70	29.81		
1106	25.9		7.63		2.946		0.73		62.0		13.2		70	29.81		
1110	26.1		7.63		2.948		0.73		60.1		12.0		70	29.82		
1114	26.3		7.63		2.949		0.78		58.2		11.7		70	29.83		
1118	26.5	1.5%	7.63	NO Change	2.951	<1%	0.76	7%	56.8	33 mV	11.4	5%	60	29.83	3	

Stop Purge Time: 1119 Sample Time: 1123 QA/QC Sample Time(s): NA

Sample ID: PC-196-20200521 QA/QC Sample ID(s): NA

Observations/Comments
Final pump settings: 54 s Refill, 6 s discharge, 48 Psi

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/21/20 Well ID: PC-197

Field Sampler(s): Andrew Morgan

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 25.91 Screened Interval Top (ft): 60 Pump Intake Depth (ft): 67.5

Well Depth (ft): 75.30 Screened/Open Interval Bottom (ft): 75 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1026

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1031	27.7		7.46		1.615		6.51		188.4		11.2		75	25.78	0.375	none/none
1034	27.3		7.43		3.229		3.60		90.4		16.1		75	25.89	0.6	" "
1037	27.4		7.54		3.642		2.72		82.9		17.0		75	25.99	0.825	" "
1042	27.6		7.66		3.917		2.04		66.3		22.0		75	26.09	1.05	" "
1047	27.3		7.70		3.995		1.70		53.8		24.1		60	26.20	1.35	" "
1052	27.6		7.71		4.030		1.47		39.5		22.8		60	26.31	1.65	" "

Stop Purge Time: 1053 Sample Time: 1055 QA/QC Sample Time(s):

Sample ID: PC-197-20200521 QA/QC Sample ID(s):

Observations/Comments: Unable to stabilize drawdown. 1 system volume purged prior to sampling. System volume = 1.0175

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/19/20 Well ID: PC-198

Field Sampler(s): *A. Morgan*

Transducer Removal Time: *NA* Transducer Redeployment Time: *NA* General Well Condition: *00-1*

Depth to Water (ft): *5.28* Screened Interval Top (ft): *60* Pump Intake Depth (ft): *65*

Well Depth (ft): *69.33* Screened/Open Interval Bottom (ft): *70* Well Diameter (in): *4*

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1106

Time	Temp. (°C)		pH (pH Units)		Conductivity (µmS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1108	-		-		-		-		-		-		120	5.31	0.21	none/none
1110	25.5		7.28		6.179		7.20		88.4		8.8		120	5.32	0.48	" "
1115	25.5		7.35		6.780		1.29		103.6		7.6		120	5.32	1.08	" "
1120	25.4		7.36		6.810		1.04		109.7		6.8		150	5.33	1.83	" "
1125	25.1		7.36		6.771		1.05		112.3		5.8		150	5.33	2.58	" "
1128	24.9		7.36		6.756		0.95		112.5		4.3		150	5.33	3.03	" "
1131	25.1	} 0.1% change	7.36	} no change	6.767	} 0.1% change	0.92	} 2.2% change	112.5	} 0.3 ml	4.6	} <10 NTU	150	5.33	3.48	" "
1134	25.1		7.36		6.788		0.93		112.8		4.0		150	5.33	3.93	" "

Stop Purge Time: 1135 Sample Time: 1135 QA/QC Sample Time(s):

Sample ID: PC-198-20200519 QA/QC Sample ID(s):

Observations/Comments: *well under pressure. Allowed approx 20 minutes for well to equilibrate prior to measuring static water level.*

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/19/20 Well ID: PC-199

Field Sampler(s): J. Morrison

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 20 (0.11) Screened Interval Top (ft): 90 Pump Intake Depth (ft): 99.5

Well Depth (ft): 104.20 Screened/Open Interval Bottom (ft): 105 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1224

Time	Temp. (°C)		pH (Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1224	-		-		-		-		-		-		110	0.05	0	
1225	-		-		-		-		-		-		110	0.10	0.11	
1227	28.6		7.43		29.575		2.03		-14.5		3.1		80	0.25	0.27	
1230	28.8		7.46		29.949		1.62		-34.3		4.3		60	0.45	0.49	
1233	29.0		7.46		30.031		1.39		-42.7		5.1		60	0.45	0.59	
1236	29.1		7.47		30.091		1.30		-47.1		7.2		60	0.56	0.75	
1244	29.7		7.46		30.484		1.20		-56.8		3.5		60	0.80	1.23	
1250	29.6		7.46		30.430		1.10		-62.7		2.6		60	0.92	1.59	
1256	29.1		7.47		30.095		0.96		-70.2		3.5		60	1.08	1.95	

Stop Purge Time: 1257 Sample Time: 1300 QAVC Sample Time(s): 0700

Sample ID: PC-199-20200519 QAVC Sample ID(s): PL-199-20200519-1822

Observations/Comments: Unable to stabilize drawdown < 0.3 ft. 1 system volume purged prior to sampling. System volume calculated to be 1.8 L

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	1	250 mL poly w/HNO3	500 mL Amber Glass w/H3PO4

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/4/20	Well ID: SWF73-AW07A
Field Sampler(s): A Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 11.62	Screened Interval Top (ft): 15	Pump Intake Depth (ft): 22.4		
Well Depth (ft): 29.87	Screened/Open Interval Bottom (ft): 30	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPELDPE	GW Disposal: GW-11	Equipment/Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 12:14				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1219	23.9		7.03		5.295		2.90	0.18	64.7		0.0		200	11.70		None/None
1220	23.9		7.04		5.298		30.86		73.4		0.0		200	11.70		None/None
1223	23.9		7.04		5.296		0.82		86.1		0.0		200	11.70		" "
1226	23.9		7.04		5.300		0.78		90.9		0.0		200	11.70		" "
1229	23.9	no change	7.04	no change	5.300	21%	0.74	80%	94.0	87 mV	0.1		200	11.70		" "
1232	23.9		7.04		5.303		0.72		99.2		0.0	<10 NTU	200	11.70	36	" "

Stop Purge Time: 12:53	Sample Time: SWF73-AW07A-7070050	QA/QC Sample Time(s): NA
	Sample ID: 1235	QA/QC Sample ID(s): NA

Observations/Comments
NA

Bottle Set Summary							
2	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄	
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass	

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



Task Name: GW Monitoring	Task Manager: Jesse Bankers	Task No: H02	Date: 5/1/20	Well ID: SWFTS - MW08A												
Field Sampler(s): J. McQuinn	Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: good													
Depth to Water (ft): 15.04	Screened Interval Top (ft): 20	Pump Intake Depth (ft): 27.5														
Well Depth (ft): 34.89	Screened/Open Interval Bottom (ft): 35	Well Diameter (in): 4														
Pump/Tubing Type: QED Bladder Pump & TLPE/DPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP														
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>														
Purge Start Time: 6:49																
Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0652	23.1		7.07		5.173		1.17		161.5		0.9		240	15.17	0.24	None/low
0655	23.2		7.07		5.175		1.04		165.1		0.4		240	15.19	1.4	" "
0658	23.2		7.08		5.174		1.00		163.5		0.3		240	15.19	2.6	" "
0701	23.2	no	7.08	no	5.175	<1%	0.95	8.6%	168.6	3.9mV	0.2		240	15.19	2.8	" "
0704	23.2	change	7.09	change	5.175		0.92		171.4		0.1	<10 NTU	240	15.19	3.6	" "
Stop Purge Time: 0705					Sample Time: 0706					QA/QC Sample Time(s): NA						
					Sample ID: SWFTS - MW08A - 20200501					QA/QC Sample ID(s): NA						
Observations/Comments NA																
Bottle Set Summary																
2	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4			
1	125 mL w/EDA		250 mL Plastic		250 mL w/H2SO4		250 mL poly w/HNO3		250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass			
*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity																



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/5/20	Well ID: ^{SWFTS-} MW-RC
Field Sampler(s): A. Morgan	Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good	
Depth to Water (ft): 13.32	Screened Interval Top (ft): 52.5	Screened/Open Interval Bottom (ft): 70	Purge Intake Depth (ft): 60	
Well Depth (ft): 69.61	Pump/Tubing Type: QED Bladder Pump & TLPEALDPE		Well Diameter (in): 2	
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		GW Disposit: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP
New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		Purge Start Time: 0754		

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0755	23.6		7.24		7.263		8.20		230.1		632.3		200	13.49	0.3	white/none
0800	23.5		7.33		7.244		11.23		229.1		620.2		300	13.55	1.8	"
0805	23.5		7.41		7.032		10.25		231.4		668.7		2300	13.51	2.8	"
0810	23.6		7.40		7.054		10.80		233.5		587.2		2300	13.51	3.8	"
0815	23.6		7.38		7.084		10.86		236.9		540.1		2300	13.51	4.8	"
0820	23.7		7.38		7.087		9.86		238.0		987.1		2300	13.51	5.8	"
0825	23.7		7.32		7.048		12.61		238.0		441.3		2300	13.51	6.8	"
0830	23.8		7.36		7.035		12.52		240.0		970.7		200	13.51	7.8	"
0835	24.0		7.34		7.029		11.59		241.9		949.1		200	13.51	8.8	"
0840	24.0		7.30		7.195		11.92		242.1		892.5		200	13.51	9.8	"
0845	24.0		7.29		7.187		11.68		242.9		862.2		200	13.51	10.8	"
0848	24.0		7.28		7.195		11.01		244.0		718.2		200	13.51	11.4	"
0851	24.1		7.26		7.199		10.17		246.1		750.3		200	13.51	12.0	"
0854	24.1	1.0 change	7.24	20.1	7.222	21.1	4.87	6.2%	248.1	5.7m	741.5	4.7%	200	13.51	12.6	"
0857	24.1		7.21		7.213		4.51		251.8		715.2		200	13.51	13.2	"

Stop Purge Time: 0858	Sample Time: 0900	QA/QC Sample Time(s): NA
Sample ID: SWFTS-MW-RC-20208505	QA/QC Sample ID(s): NA	

Observations/Comments: replaced dedicated tubing. Inefficient length of tubing present to reach mid-screen depth. 3.0 to 4.0 min turbidity sensor @ 0821 (reading appeared faulty)

Bottle Set Summary	1	2	3	4	5	6	7	8	9		
2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4		500 mL poly w/HNO3		250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3		250 mL Amber Glass w/H2PO4		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: M02 Date: 5/12/20 Well ID: TR-1

Field Sampler(s): J. Masters

Transducer Removal Time: n/a Transducer Redeployment Time: n/a General Well Condition: Good

Depth to Water (ft): n/a Screened Interval Top (ft): 283 Pump Intake Depth (ft): Dedicated Pump

Well Depth (ft): 314.88 Screened/Open Interval Bottom (ft): 317.5 Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE GW Dispose: GW-11 Equipment Decon. Method: Alconex/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N) Dedicated pump

Purge Start Time: 1300

Table with 17 columns: Time, Temp (°C), pH (pH Units), Conductivity (mS/cm), DO (mg/L), ORP (mV), Turbidity (NTU), Purge Rate (mL/min), Depth to Water (ft), Cum. Vol. Purged (L), Color/Odor. Rows contain data from 1305 to 1350.

Stop Purge Time: 1352 Sample Time: 1355 QA/QC Sample Time(s):

Sample ID: TR-1-20200512 QA/QC Sample ID(s):

Observational/Comments starting pressure @ 15 psi, ending pressure @ 2 psi.

Table with 2 columns: Bottle Set Summary, Bottle Details. Includes rows for 3x VOA w/HCl and 125 mL w/EDA.

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HOZ	Date: 5/13/20	Well ID: TR-2
Field Sampler(s): J. Masters				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 24.76	Screened Interval Top (ft): 146.7	Pump Intake Depth (ft): 142		
Well Depth (ft): 177.34	Screened/Open Interval Bottom (ft): 176.7	Well Diameter (in): 4		
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decom. Method: Abnormal RI Rinse SOP		
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 0731				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Corg. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0736	24.4		7.98		0.884		5.01		128.7		1.21		200	25.30	1	clear/none
0741	24.5		7.98		0.888		4.81		128.1		1.12		200	25.6	2	clear/none
0746	24.6		7.98		0.889		4.75		127.2		1.22		200	25.62	3	clear/none
0751	24.7		7.98		0.889		4.73		126.3		1.00		200	25.63	4	clear/none
0756	24.6	0.4%	7.96	0%	0.990	0.1%	4.71	0.5%	125.5	1.7mV	1.14	< 10 NTU	200	25.63	4.0	clear/none

Stop Purge Time: 0758	Sample Time: 0800	QA/QC Sample Time(s): 0900
Sample ID: TR-2-20200513		QA/QC Sample ID(s): TR-2-20200513-EB11

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/1250 ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burdors	Task No: H02	Date: 5/12/20	Well ID: TR-3
Field Sampler(s): J. Masters				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): N/A	Screened Interval Top (ft): 221.6	Pump Intake Depth (ft): N/A		
Well Depth (ft): 252.76	Screened/Open Interval Bottom (ft): 251.6	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0901	Pressure @ Start 9 PSI Pressure @ End 0.5 PSI			

Time	pH		Cond		DO		ORP		Turbidity		Purge Rate (L/min)	Temp to Ambient (°C)	Total Vol Pumped (L)	Color/Notes
	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?	READ	CHANGE?				
0906	26.0		7.30		1.144		1.62		-69.1		17.02		0.45	Clear/none
0911	26.2		7.26		1.140		1.56		-53.1		26.31		1.90	Clear/none
0916	26.4		7.08		1.155		1.90		-87.9		53.09		1.35	Clear/none
0921	26.7		6.73		1.186		1.61		-79.2		120.05		1.80	Brown/none
0925	26.5		6.54		1.195		1.87		-49.2		230.54		2.25	Brown/none
0931	26.7		6.59		1.192		2.00		-51.5		92.66		2.7	Clear/none
0936	26.7		6.62		1.189		2.04		-54.9		80.45		3.15	Clear/none
0941	26.9		6.65		1.187		2.09		-61.4		80.67		3.6	Clear/none
0946	26.9	0.7%	6.64	0.02%	1.188	0.09%	2.10	3%	-62.3	7.4mV	81.02	0.7%	4.05	Clear/none

Stop Purge Time: 0948	Sample Time: 0950	QA/QC Sample Time(s): N/A
	Sample ID: TR-3-20206512	QA/QC Sample ID(s): N/A

Observations/Comments

Bottle Set Summary	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2						
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/11/20	Well ID: TR-4
Field Sampler(s): J. Masters				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A	General Well Condition: Good		
Depth to Water (ft): 35.1	Screened Interval Top (ft): 127	Pump Intake Depth (ft): 137		
Well Depth (ft): 147	Screened/Open Interval Bottom (ft): 147	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Deposit: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 1253				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1258	28.9		7.80		1.024		5.11		123.0		2.29		140	35.31	1.7	clear/none
1303	28.4		7.77		1.010		4.74		124.7		1.02		140	35.45	1.4	clear/none
1308	28.4		7.96		1.004		4.78		125.5		1.46		140	35.74	2.1	clear/none
1313	28.5	} 3%	8.12	} 0.02	1.003	} 0.2%	5.04	} 0.8%	126.5	} 2A	1.16	} 10	140	36.20	2.8	clear/none
1318	29.4		8.14		1.002		5.06		128.5		1.09		140	36.41	3.5	clear/none
1323	29.3		8.14		1.004		5.08		129.4		1.15		140	36.62	4.2	clear/good

Stop Purge Time: 1324	Sample Time: 1325	QA/QC Sample Time(s): N/A
	Sample ID: TR-4-20200511	QA/QC Sample ID(s): N/A

Observations/Comments: NA

Bottle Set Summary									
2	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/15/20	Well ID: TR-5
Field Sampler(s): J. Masters	Transducer Removal Time: n/a	Transducer Redeployment Time: n/a	General Well Condition: Good	
Depth to Water (ft): 5 PSI	Screened Interval Top (ft): 223.6	Pump Intake Depth (ft): n/a		
Well Depth (ft): 254.32	Screened/Open Interval Bottom (ft): 253.6	Well Diameter (in): 4		
Pump/Tubing Type: QED Bladder Pump & TLPELDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1140

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1143	27.4		7.59		1.385		2.92		57		3.00		240	-	0.72	clear/nop
1146	27.0		7.59		1.314		2.67		-17.5		3.89		240	-	1.44	clear/nop
1149	27.0		7.29		1.310		2.69		-83.0		14.06		240	-	2.16	clear/nop
1152	27.5		6.69		1.335		2.51		-50.1		25.51		240	-	2.88	clear/nop
1155	27.7		6.65		1.340		2.91		-33.4		15.45		240	-	3.60	clear/nop
1158	27.8		6.72		1.340		3.45		-24.8		7.33		240	-	4.32	clear/nop
1201	27.9		6.74		1.338		3.52		-26.9		6.80		240	-	5.04	clear/nop
1204	27.9	0.3%	6.75	0.03	1.339	<1%	3.55	3%	-27.2	.4mV	6.51	<10	240	-	5.76	clear/nop

Stop Purge Time: 1207	Sample Time: 1210	QA/QC Sample Time(s):
Sample ID: TR-5-20200515	QA/QC Sample ID(s):	

Observations/Comments: 5 PSI @ start .0.5 PSI @ End 240 mL/min nat. flow

Bottle Set Summary									
2	3x VOA w/HCl		125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA		250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/19/20	Well ID: TR-6												
Field Sampler(s): J. Masters																
Transducer Removal Time: Na	Transducer Redeployment Time: N/A	General Well Condition: Good														
Depth to Water (ft): 35.73	Screened Interval Top (ft): 62.6	Pump Intake Depth (ft): 72.5														
Well Depth (ft): 80	Screened/Open Interval Bottom (ft): 82.6	Well Diameter (in): 4														
Pump/Tubing Type: QED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconax/DI Rinse SOP														
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)														
Purge Start Time: 1021																
Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1024	27.6		7.28		13.475		8.71		106.9		7.05		120	35.66	.56	clear/none
1027	28.2		7.28		13.600		8.61		116.4		9.56		120	35.66	.72	clear/none
1030	28.2		7.28		13.801		8.57		122.4		9.42		120	35.66	1.08	clear/none
1033	28.1		7.27		13.554		8.54		128.2		9.35		120	35.66	1.44	clear/none
1036	28.0	0.7%	7.27	0.01	13.495	0.7%	8.55	0.4%	130.2	6.8mV	9.21	<10NTU	120	35.66	1.8	clear/none
Stop Purge Time: 1038					Sample Time: TR-6-20200515					QA/QC Sample Time(s): n/a						
					Sample ID: 1040					QA/QC Sample ID(s): n/a						
Observations/Comments																
Bottle Set Summary																
2	3x VOA w/HCl		1	125 mL Plastic			500 mL Plastic			500 mL w/H ₂ SO ₄			500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄	
1	125 mL w/EDA		1	250 mL Plastic			250 mL w/H ₂ SO ₄		1	250 mL poly w/HNO ₃			250 mL Amber Glass w/H ₃ PO ₄		500 mL Amber Glass	
*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity																



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/18/20	Well ID: TR-7
Field Sampler(s): A. Morgan				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: good		
Depth to Water (ft): 4.36	Screened Interval Top (ft): 262.4	Pump Intake Depth (ft): 277.47 (DP)		
Well Depth (ft): 292.97 (Mistaken)	Screened/Open Interval Bottom (ft): 292.4	Well Diameter (in): 2 1/2		
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 1037

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum Vol Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1040	25.5	0	7.75		1.255		6.08		120.1		0.7		220	4.60	0.96	None/none
1043	25.6		7.81		1.237		6.26		127.8		0.6		200	4.56	1.56	" "
1046	26.0		7.82		1.282		6.22		136.7		0.8		200	4.59	2.16	" "
1049	-		-		-		-		-		-		75	4.50	2.74	" "
Out of nitrogen - stop purge to refill tank. Resume purge @ 1141																
1140	-		-		-		-		-		-		80	4.36	2.24	" "
1143	-		-		-		-		-		-		80	4.44	2.48	" "
1145	27.0		7.84		1.297		6.26		132.9		0.5		80	4.47	2.72	" "
1148	27.1		7.82		1.300		6.03		141.5		0.3		120	4.49	3.08	" "
1151	26.6		7.82		1.289		6.15		151.9		0.4		120	4.51	3.14	" "
1154	26.4		7.82		1.283		6.50		156.3		4.8		120	4.54	3.8	" "
1157	26.3		7.83		1.279		6.14		160.3		5.0		120	4.56	4.16	" "
1200	26.3		7.83		1.279		6.22		163.4		0.4		120	4.56	4.52	" "
1203	26.2		7.82		1.277		6.14		166.7		0.4		120	4.56	4.98	" "

Stop Purge Time: 1204	Sample Time: 1205	QA/QC Sample Time(s): NA
	Sample ID: TR-7-20200518	QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₃ PO ₄		500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page ___ of ___
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/18/20 Well ID: TR-8

Field Sampler(s): A. Adams

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: good

Depth to Water (ft): 48.76 48.67 Screened Interval Top (ft): 65.5 Pump Intake Depth (ft): 78 (DP)

Well Depth (ft): 46.10 Screened/Open Interval Bottom (ft): 95.5 Well Diameter (in): 24

Pump/Tubing Type: OED Bladder Pump & TLPE/LOPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 8:09

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (L/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0910	26.1		8.05		1.561		7.84		91.8		3.5		240	48.67	0.48	none/none
0915	25.9		7.82		1.558		8.13		103.7		4.3		240	48.67	1.68	" "
0918	25.8		7.80		1.559		8.03		111.3		4.0		240	48.67	2.4	" "
0921	25.8		7.79		1.560		7.87		119.5		6.7		240	48.67	3.12	" "
0924	25.6	} <11	7.78	} <1	1.557	} <11	7.95	} 3.81	127.7	} 7.9 mV	4.2	} <10 NTU	240	48.67	3.84	" "
0927	25.7		7.79		1.557		7.76		130.4		4.0		240	48.67	4.56	" "
0930	25.8		7.79		1.558		7.66		135.6		3.3		240	48.67	5.28	" "

Stop Purge Time: 0931 Sample Time: 0935 QA/QC Sample Time(s): NA

Sample ID: TR-8-20200518 QA/QC Sample ID(s): NA

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/14/20 Well ID: TR-9

Field Sampler(s): Dylan Davis

Transducer Removal Time: -

Transducer Redeployment Time: -

General Well Condition: Good

Depth to Water (ft): 29.70

Screened Interval Top (ft): 232.6

Pump Intake Depth (ft): 240

Well Depth (ft): 253.04

Screened/Open Interval Bottom (ft): 252.6

Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEALDPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

dedicated pump

Purge Start Time: 1110

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1111	28.7		7.74		1.542		6.24		139.4		3.9		160	29.70	0.16	cloudy
1114	28.2		7.59		1.538		6.14		28.8		3.6		160	29.70	0.96	
1117	29.2		7.54		1.535		6.13		139.2		3.4				1.76	
1120	28.0	1.0%	7.59	1.0%	1.526	<1.0%	6.20	1.3%	140.6	3.3	3.1	<10			2.56	
1123	27.9		7.62		1.522		6.21		137.3		3.1				3.36	

Stop Purge Time: 1123

Sample Time: 1130

QA/QC Sample Time(s): -

Sample ID: TR-9-20200515

QA/QC Sample ID(s): -

Observations/Comments Air coming up sample line and into flow cell.

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/15/20 Well ID: TR-10
 Field Sampler(s): Dyla Davis
 Transducer Removal Time: — Transducer Redeployment Time: — General Well Condition: Good
 Depth to Water (ft): 63.05 Screened Interval Top (ft): 82.4 Pump Intake Depth (ft): 92'
 Well Depth (ft): 102.84 Screened/Open Interval Bottom (ft): 102.4 Well Diameter (in): 4"
 Pump/Tubing Type: QED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconau/DI Rinse SOP
 Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1222

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1223	29.8		7.81		3.471		7.28		137.8		2.7		140	63.05	0.14	clear/ana.
1226	28.8		7.57		3.405		7.85		167.6		2.7		140	63.05	0.84	
1229	28.4		7.39		3.313		7.92		191.0		18.1				1.54	
1232	28.4		7.37		3.289		8.52		198.7		19.5	3.9 (scg)			2.24	
1235	29.3	1.0%	7.38	0.01	3.289	<1.0%	9.34	2.8%	205.2	9.4	3.5				2.94	
1238	28.6		7.38		3.312		8.58		208.1		3.8	<10			3.64	

Stop Purge Time: 1238 Sample Time: 1245 QA/QC Sample Time(s): —

Sample ID: TR-10-20200515 QA/QC Sample ID(s): —

Observations/Comments: Tiny air bubbles seen in tubing and into flow cell.

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄		250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/11/20 Well ID: TR-11

Field Sampler(s): J Bunkers

Transducer Removal Time: -

Transducer Redeployment Time: -

General Well Condition: Good Artesian

Depth to Water (ft): 6.5psi

Screened Interval Top (ft): 213

Pump Intake Depth (ft): NA

Well Depth (ft): 232.5

Screened/Open Interval Bottom (ft): 233

Well Diameter (in): 4

Pump/Tubing Type: QED Bladder Pump & TLPEADPE

GW Disposal: GW-11

Equipment Decon. Method: Alconox/DI Rinse SOP

N. Dedicated Tubing Present? (Y/N)

N. New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1308

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1312	27.15		8.26		173		3.30		192.33		3.27		180			clear/none
1315			7.96		128		4.20		150.55		910.60		"			brown/none
1318			7.50		128		4.39		142.90		700.88		"			"
1321			7.58		1.28		5.18		156.95		28.45		"			"
1324			7.78		1.27		5.53		179.42		10360		"			"
1327			7.94		1.27		5.67		226.37		33.46		"			clear/none
1330			8.12		1.27		5.72		226.65		2254		"			"
1333			8.06		1.27		5.77		243.07		15.85		"			"
1336			8.07		1.27		5.78		249.32		11.69		"			"
1339			8.08		1.27		5.80		256.04		11.32		"			"
1342			8.08		1.27		5.85		263.48		8.14		"			"
1345			8.08		1.28	<10%	5.82	10%	266.48	5	6.13	<10	"			"
1348			8.08		1.28		5.81		271.44		9.24		"	5.5psi	7.56	"

Stop Purge Time: 1349

Sample Time: 1400

QA/QC Sample Time(s): -

Sample ID: TR-11-20200541

QA/QC Sample ID(s): -

Observations/Comments

Stabilized w/ the Eq. 3 collect and YSI EXO

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic		250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5/11/20	Well ID: TR-12
Field Sample(s): 1 Bunkers				
Transducer Removal Time: —		Transducer Redeployment Time: —		General Well Condition: Good Artesian
Depth to Water (ft): 8.60 PSI	Screened Interval Top (ft): 275.2		Pump Intake Depth (ft): N/A	
Well Depth (ft): 295.2	Screened/Open Interval Bottom (ft): 295.2		Well Diameter (in): 4	
Pump/Tubing Type: QED Bladder Pump & TLPEADPE		GW Disposit: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP
N Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 0732

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
0735	25.3		9.43		863		0.71		102.5		4.97		300			clear/none
0740	25.3		9.21		852		0.52		107.7		4.85		"			"
0743	25.3	0	9.22	0.01	852	0	0.50	4%	107.7	0	4.89	10	"			"
0746	25.3		9.22		852		0.50		107.7		4.91		"		4.8	"

Stop Purge Time: 0744	Sample Time: 0750	QA/QC Sample Time(s): —
	Sample ID: TR-12-20200511	QA/QC Sample ID(s): —

Observations/Comments
 Final Pressure = 64 psi

Bottle Set Summary	1	2	3	4	5	6	7	8	
3x VOA w/HCl		1	125 mL Plastic		500 mL Plastic		500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
125 mL w/EDA	1		250 mL Plastic		250 mL w/H2SO4	1	250 mL poly w/HNO3	250 mL Amber Glass w/H3PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

*



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5/8/20 Well ID: TR-12

Field Sampler(s): J Bunkers

Transducer Removal Time: - Transducer Redeployment Time: - General Well Condition: Good Artesian

Depth to Water (ft): 17.1 Screened Interval Top (ft): 275.2 Pump Intake Depth (ft):

Well Depth (ft): 295.12 Screened/Open Interval Bottom (ft): 275.2 Well Diameter (in): 4

Pump/Tubing Type: OED Bladder Pump & TLPEADPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N) Dedicated pump

Purge Start Time: 1325

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*	READ	CHANGE*				
1330	27.3		8.64		858		1.06		25.0		2.20		330			clear/none
1333	26.9		8.60		857		1.20		1.5		2.09		"			"
1336	26.8		8.44		853		1.30		-42.0		2.22		"			"
1339	26.8		7.88		853		1.38		-131.7		2.12		"			"
1342	26.7		7.72		854		1.41		-112.2		2.09		"			"
1345	26.7	0	7.64	0.05	854	0	1.41	0	-112.1	0.3	2.10	<10	"			"
1348	26.7		7.64		854		1.41		-111.9		2.06		"	2 PSI	99 L	"

Step Purge Time: 1349 Sample Time: 1355 QA/QC Sample Time(s):

Sample ID: TR-12-20200508 QA/QC Sample ID(s):

Observations/Comments

Bottle Set Summary

2	3x VOA w/HCl	1	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



Task Name: GW Monitoring Test Manager: Jesse Burkner Task No: H02 Date: 5-13-20 Well ID: UFMW-010

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: ok - void between the 3 casings

Depth to Water (ft): 31.19 Screened Interval Top (ft): 44 Pump Intake Depth (ft): 46.5

Well Depth (ft): 49.30 Screened/Open Interval Bottom (ft): 49 Well Diameter (in): 2"

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decor. Method: Alcon/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Picked? (Y/N)

Purge Start Time: 10:20

Time	Temp. (°C)		pH (pH Mv/da)		Conductivity (µS/cm)		DO (mg/L)		ORP (mv)		Turbidity (NTU)		Purge Rate (L/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1023	25.2		7.44		5.285		0.71		154.7		37.6		180	31.50		mostly clear
1028	24.9		7.45		5.310		0.28		148.8		16.9		180	31.42		clear/NO
1033	24.9		7.45		5.314		0.20		144.9		15.2		170	31.47		" "
1038	24.8		7.45		5.327		0.17		141.5		11.3		170	31.45		" "
1043	24.8		7.45		5.328		0.16		139.4		10.5		170	31.43		" "
1047	24.8		7.45		5.329		0.14		137.3		10.3		170	31.45		" "
1050	24.8	No change	7.45	No change	5.334	<1.0	0.13	All <0.5	136.3	3.1 mV	10.1	4%	170	31.45	6'	" "

Stop Purge Time: 10:51 Sample Time: 10:56 QM/QC Sample Time(s): NA

Sample ID: UFMW-010-20200513 QM/QC Sample ID(s): NA

Observations/Comments: Pump settings: Refill 15.3 seconds, discharge 9.7 seconds, pressure 35 psi

Bottle Est Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H2SO4	500 mL poly w/HNO3	250 mL Amber Glass w/H2SO4
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H2SO4	250 mL poly w/HNO3	250 mL Amber Glass w/H2PO4	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 2

NERT, Henderson, NY

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: 1102	Date: 5-13-20	Well ID: UFMW-02D
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: OK	
Depth to Water (ft): 31.35	Screened Interval Top (ft): 44		Pump Intake Depth (ft): 46.5	
Well Depth (ft): 49.5	Screened/Open Interval Bottom (ft): 49		Well Diameter (in): 2"	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11		Equipment Decom. Method: Abcon/D/Flux SOP <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input checked="" type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 11:40				

Time	Temp. (°C)		pH (pH Units)		Conductivity (µmhos/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1145	25.0		7.47		5.884		0.72		128.3		434		120	31.82		cloudy
1149	24.6		7.45		5.902		0.37		131.1		208		120	31.80		
1154	24.9		7.46		5.901		0.23		132.2		127		120	31.78		
1159	24.4		7.46		5.900		0.20		132.0		613		240	32.01		
1209	24.5		7.46		5.904		0.14		132.7		254		180	32.00		
1209	24.5		7.46		5.909		0.12		132.5		171		180	32.00		
1214	24.7		7.46		5.912		0.11		132.3		177		180	32.00		
1219	24.6		7.46		5.910		0.10		132.2		135		180	32.00		
1222	24.6		7.46		5.909		0.09		132.0		88		180	32.00		A little
1226	24.7		7.46		5.908		0.09		131.9		91		180	32.00		clearer
1231	24.7		7.45		5.933		0.08		131.7		87		180	32.00		
1235	24.9		7.46		5.937		0.37		132.0		13		180	32.00		clear
1240	24.7		7.46		5.941		0.39		133.1		11.6		180	32.00	10	" "
1243	24.7		7.46		5.941		0.38		133.4		9.1		180	32.00		" "
1247	24.8		7.45		5.945		0.39		134.2		7.4		180	32.00		" "

Stop Purge Time: 12:51	Script Time: 12:57	QA/QC Sample Time(s): NA
Sample ID: UFMW-02D-20200513	QA/QC Sample ID(s): NA	

Observations/Comments: Pump settings: Refill 16 s, Disch. 4 sec, pressure 35 psi. Then I tried R 125, 40 85, then 14 46. 12:33 - shook flow cell to dislodge sediment

Bottle Set Summary						
2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	1	250 mL poly w/HNO ₃
						250 mL Amber Glass w/H ₂ SO ₄
						500 mL Amber Glass w/H ₂ PO ₄

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 2 of 2

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-13-20	Well ID: UFMW-020
Field Sample(s): Ron Phillips	Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: OK	
Depth to Water (ft): 31.35	Screened Interval Top (ft): 44	Pump Intake Depth (ft): 46 1/2	Well Diameter (in): 2	
Well Depth (ft): 49.5	Screened/Open Interval Bottom (ft): 49	Equipment Decon. Method: Alconox/DI Rinse SOP		✓
Pump/Tubing Type: QED Bladder Pump & TUPE/DPE	GW Disposit: GW-11			
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input type="checkbox"/>		

Purge Start Time:

Time	Temp. (°F)		pH (mV/units)		Conductivity (µmhos/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Pump Rate (gpm)	Depth to Water (ft)	Cable Vel. (ft/min)	Cable Str.
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1250	24.8	<1%	7.45	<1%	9.948	<1%	0.37	All	134.9	1mV	7.2	All	180	32.00	11/2	" "
								<0.5 mg/L				<10 NTU				

Stop Purge Time: 1251 Sample Time: 1257 QA/QC Sample Time(s): NA
 Sample ID: UFMW-020-20200513 QA/QC Sample ID(s): NA

Observations/Comments: see pg 1

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 2
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkers	Task No: H02	Date: 5-14-20	Well ID: UFMW-03D
Field Sampler(s): Jon Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA	General Well Condition: Good, vault not bolted down		
Depth to Water (ft): 28.87	Screened Interval Top (ft): 45	Pump Intake Depth (ft): 47.5		
Well Depth (ft): 50.7	Screened/Open Interval Bottom (ft): 50	Well Diameter (in): 2		
Pump/Tubing Type: OED Bladder Pump & TLPE/LDPE	GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP <input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		
Purge Start Time: 0650				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0655	23.5		7.41		6.009		1.48	1.48	164.1		35.5		145	28.55		Sl. turbid
0700	23.7		7.41		6.056		1.04	1.04	167.4		42.0		145	28.55		
0703	23.8		7.41		6.065		0.95	0.95	168.9		24.1		165	28.56		
0707	23.9		7.42		6.056		1.14	1.14	169.3		36.3		165	28.55		
0710	23.6		7.42		6.070		1.36	1.36	169.9		20.2		165	28.52		clear
0714	23.6		7.42		6.064		1.32	1.32	170.2		19.6		225	28.60		
0717	23.8		7.43		6.058		1.61	1.61	170.6		17.2		225	28.60		
0721	23.9		7.43		6.051		1.96	1.96	171.4		17.1		225	28.55		
0726	24.0		7.44		6.043		3.15	3.15	173.4		9.6		255	28.50		
0737	24.0		7.46		6.014		4.86	4.86	177.5		23.8		255	NR		
0749	23.6		7.51		3.000		6.05	6.05	135.7		16.6		210	28.70	10	
0754	23.8		7.46		6.037		4.98	4.98	155.7		12.1		210	29.20		Turbid
0758	23.4		7.45		6.055		4.06	4.06	161.9		74.1		165	29.20		
0801	24.1		7.43		6.067		3.37	3.37	166.7		37.1		165	29.18		clear
0805	24.1		7.43		6.069		3.04	3.04	170.2		27.4		165	29.18	13	

Stop Purge Time: 0823	Sample Time: 08:25	QA/QC Sample Time(s): NA
	Sample ID: UFMW-03D-20200514	QA/QC Sample ID(s): NA

Observations/Comments: Down time 0737-0748 to fix an arr leak on the pump
Final pump settings: Refill 145, Disch 6 sec, pressure 35 PSI

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:

± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 2 of 2

NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: H02	Date: 5-14-20	Well ID: UFMW-03D
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: Good, vault not bolted down	
Depth to Water (ft): 28.87	Screened Interval Top (ft): 45		Pump Intake Depth (ft): 47.5	
Well Depth (ft): 50.7	Screened/Open Interval Bottom (ft): 50		Well Diameter (in): 2"	
Pump/Tubing Type: QED Bladder Pump & TLPEADPE	GW Disposal: GW-11		Equipment Decon. Method: Alconox/DI Rinse SOP ✓	
Dedicated Tubing Present? (Y/N) <input checked="" type="checkbox"/>		New Dedicated Tubing Placed? (Y/N) <input checked="" type="checkbox"/>		
Purge Start Time: 0850				

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (mL/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0811	23.8		7.43		6.029		2.92		174.6		14.5		270	29.18		Clear
0815	23.8		7.43		6.063		2.94		175.6		17.7		165	29.17		
0818	24.1		7.43		6.056		3.01		177.2		16.9			29.17		
0821	24.3	2%	7.43	NO change	6.061	<1%	3.03	3.7 9%	178.4	2.8 mV	17.0	4.7%		29.17	15	

Stop Purge Time: 0822	Sample Time: 0825	QA/QC Sample Time(s): NA
Sample ID: UFMW-03D-20200514	QA/QC Sample ID(s): NA	

Observations/Comments see page 1

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: HD2 Date: 5-14-90 Well ID: UFMW-040

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: OK

Depth to Water (ft): 30.15 Screened Interval Top (ft): 44 Pump Intake Depth (ft): 46.5

Well Depth (ft): 49.70 Screened/Open Interval Bottom (ft): 49 Well Diameter (in): 2

Pump/Tubing Type: OED Bladder Pump & TLPE/DPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 0912

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
0915	24.7		7.38		4.581		2.43		163.8		15.1		90	30.35	30.25	clear/NO
0918	24.8		7.36		4.332		1.55		164.4		11.4		90	30.35	30.25	
0925	25.0		7.38		3.966		0.52		162.7		5.7		120	30.25		
0928	24.4		7.38		3.956		0.41		162.2		3.6		120	30.25		
0932	24.4		7.40		3.955		0.34		161.7		1.9		120	30.25		
0937	25.0	<190	7.41	<190	3.958	<190	0.24	All	161.1	0.6	1.7	All	120	30.25	3 1/2	
							<0.5			mV	<10					

Stop Purge Time: 0938 Sample Time: 0945 QAVC Sample Time(s): NA

Sample ID: UFMW-040-20200514 QAVC Sample ID(s): NA

Observations/Comments: Pump settings: 12s Refill, 8 sec disch., pressure 35 psi.

Bottle Set Summary

2x	3x VOA w/HCl	1	125 mL Plastic Sterile	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
1	125 mL w/EDA	1	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₃ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 1 of 1
NERT, Henderson, NV

Task Name: GW Monitoring Task Manager: Jesse Bunkers Task No: H02 Date: 5-14-20 Well ID: UFMW-05D

Field Sampler(s): Ron Phillips

Transducer Removal Time: NA Transducer Redeployment Time: NA General Well Condition: OK

Depth to Water (ft): 30-15 Screened Interval Top (ft): 45 Pump Intake Depth (ft): 47.5

Well Depth (ft): 99.7 Bitoc Screened/Open Interval Bottom (ft): 50 Well Diameter (in): 2

Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE GW Disposal: GW-11 Equipment Decon. Method: Alconox/DI Rinse SOP ✓

Dedicated Tubing Present? (Y/N) New Dedicated Tubing Placed? (Y/N)

Purge Start Time: 1029

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1034	25.8		7.31		4.961		0.55		141.0		22.5		100	30.25		Turbid
1038	25.6		7.32		5.071		0.44		142.1		13.9		100	30.26		↓
1042	25.3		7.33		5.075		0.30		142.2		81.6		150	30.34		clearer
1046	25.2		7.34		5.013		0.22		142.3		40.4		150	30.36		↓
1051	25.2		7.33		5.005		0.20		142.6		27.6		150	30.35		↓
1055	25.1		7.33		4.999		0.17		142.8		20.3		150	30.36		clear
1100	25.2		7.34		4.979		0.16		143.1		16.3		150	30.36		
1104	25.2		7.34		4.967		0.15		143.4		15.0		150	30.36		
1109	25.1		7.34		4.947		0.14		143.5		13.9		145	30.36		
1114	25.0		7.34		4.930		0.13		143.8		10.9		145	30.39		
1120	25.2		7.34		4.950		0.14		144.3		9.3		145	30.37		
1123	25.2		7.34		4.923		0.12		144.3		9.1		145	30.40		
1127	25.1	<1%	7.34	No change	4.916	<1%	0.11	All	144.4	0.1	8.3	All	145	30.39	10	↓
							<0.5			mV	<10					
							mg/L				NTU					

Stop Purge Time: 11:28 Sample Time: 11:33 QA/QC Sample Time(s): NA

Sample ID: UFMW-05D-20200514 QA/QC Sample ID(s): NA

Observations/Comments: Pump settings: 11.5 Refill, 4.5 discharge, 38 psi pressure. Then 9 R & 11 D @ 1107

Bottle Set Summary

	3x VOA w/HCl	125 mL Plastic	500 mL Plastic	500 mL w/H ₂ SO ₄	500 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ SO ₄
2x		sterile				
1	125 mL w/EDA	250 mL Plastic	250 mL w/H ₂ SO ₄	250 mL poly w/HNO ₃	250 mL Amber Glass w/H ₂ PO ₄	500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mV for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Task No: HQ2	Date: 5-14-20	Well ID: UFMW-06D
Field Sampler(s): Ron Phillips				
Transducer Removal Time: N/A	Transducer Redeployment Time: N/A		General Well Condition: OK	
Depth to Water (ft): 29.85	Screened Interval Top (ft): 45		Pump Intake Depth (ft): 47.5	
Well Depth (ft): 49.90	Screened/Open Interval Bottom (ft): 50		Well Diameter (in): 2	
Pump/Tubing Type: QED Bladder Pump & TLPE/LDPE		GW Disposal: GW-11	Equipment Decon. Method: Alconox/DI Rinse SOP ✓	
Y Dedicated Tubing Present? (Y/N)		N New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 12:16

Time	Temp. (°C)		pH (pH Units)		Conductivity (µS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1220	25.7		7.45		5.284		1.02		126.3		335		115	30.30		cloudy
1225	25.8		7.41		5.256		0.48		132.3		40.0		115	30.32		cloudy
1230	25.7		7.40		5.246		0.41		133.3		69.5		115	30.30		"
1234	25.7		7.39		5.223		0.37		134.9		46.5		115	30.29		"
1238	25.7		7.40		5.245		0.33		136.9		38.7		135	30.35		"
1243	25.4		7.40		5.254		0.29		136.8		27.6		135	30.35		clearer
1248	25.4		7.41		5.274		0.26		137.3		21.2		135	30.36		"
1252	25.4		7.41		5.270		0.25		137.7		18.3		135	30.36		clear
1256	25.2		7.41		5.279		0.23		138.0		17.3		150	30.40		"
1300	25.3		7.40		5.263		0.21		138.1		14.9		150	30.41		"
1304	25.2		7.41		5.282		0.19		138.2		17.7		150	30.41		"
1308	25.3		7.41		5.280		0.18		138.2		17.2		150	30.45		"
1312	25.3		7.41		5.277		0.18		138.2		13.		150	30.45		"
1315	25.2		7.41		5.277		0.17		138.2		11.9		150	30.45		"
1318	25.4		7.41		5.269		0.17		138.1		11.0		150	30.45		"

Stop Purge Time: 1322	Sample Time: 13:28	QAVC Sample Time(s): 14:00
Sample ID: UFMW-06D-20200514	QAVC Sample ID(s): UFMW-06D-20200514-EBT2	

Observations/Comments: Pump settings 11s Refill, 9 s discharge, ~38 psi pressure

Bottle Set Summary											
2 x	3x VOA w/HCl	2	125 mL Plastic sterile		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity



TETRA TECH

LOW FLOW GROUNDWATER SAMPLING LOG

Page 2 of 2
NERT, Henderson, NV

Task Name: GW Monitoring	Task Manager: Jesse Burkers	Task No: H02	Date: 5-14-20	Well ID: UFMW-06D
Field Sampler(s): Ron Phillips				
Transducer Removal Time: NA	Transducer Redeployment Time: NA		General Well Condition: ok	
Depth to Water (ft): 29.35	Screened Interval Top (ft): 45		Pump Intake Depth (ft): 43.5	
Well Depth (ft): 49.40	Screened/Open Interval Bottom (ft): 50		Well Diameter (in): 2"	
Pump/Tubing Type: OED Bladder Pump & TLPEALDPE	GW Disposal: GW-11	Equipment Decor. Method: Alconox/DI Rinse SOP <input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Dedicated Tubing Present? (Y/N)		<input type="checkbox"/> New Dedicated Tubing Placed? (Y/N)		

Purge Start Time: 12:16

Time	Temp. (°C)		pH (pH Units)		Conductivity (mS/cm)		DO (mg/L)		ORP (mV)		Turbidity (NTU)		Purge Rate (ml/min)	Depth to Water (ft)	Cum. Vol. Purged (L)	Color/Odor
	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE	READ	CHANGE				
1321	25.3	<1%	7.4	No change	5.26	<1%	0.16	All <0.5 mg/L	138.2	0.1 mV	11.2	8%	150	30.45	10	Clear

Stop Purge Time: 13:22 Sample Time: 1328 QA/QC Sample Time(s): 14:00
 Sample ID: UFMW-06D-20200514 QA/QC Sample ID(s): UFMW-06D-20200514-EB12

Observations/Comments: see pg 1

Bottle Set Summary

2x	3x VOA w/HCl	2	125 mL Plastic sterile		500 mL Plastic		500 mL w/H ₂ SO ₄		500 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ SO ₄
2	125 mL w/EDA	2	250 mL Plastic		250 mL w/H ₂ SO ₄	2	250 mL poly w/HNO ₃		250 mL Amber Glass w/H ₂ PO ₄		500 mL Amber Glass

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH; ± 3% for Cond and Temp; ± 10 mv for ORP; ± 10% or <0.5 mg/L for DO; ± 10% or <10 NTU Turbidity

Attachment F Calibration Logs

EQUIPCO

Rentals Sales Service

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: JC

DATE: 4/27/2020

RENTAL CUSTOMER: TETRA TECH

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSIPRODSS. 32

SERIAL NUMBER: 17M100693

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS	LOT #
1. CONDUCTIVITY	1,000 μ Mhos	<input checked="" type="checkbox"/>	<u>039920</u>
2. pH ZERO	pH 7	<input checked="" type="checkbox"/>	<u>038497</u>
pH SLOPE	pH 4	<input checked="" type="checkbox"/>	<u>038496</u>
pH SLOPE	pH 10	<input checked="" type="checkbox"/>	<u>57332</u>
3. DISSOLVED OXYGEN	Air Calibration	<input checked="" type="checkbox"/>	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfite)	<input type="checkbox"/>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<input checked="" type="checkbox"/>	<u>04/27/2020</u>
TURBIDITY SPAN	100 NTU's	<input checked="" type="checkbox"/>	<u>04/27/2020</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<input checked="" type="checkbox"/>	<u>032420</u>

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: JC

DATE: 4/27/2020

RENTAL CUSTOMER: TETRA TECH

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSIPRODSS. 39

SERIAL NUMBER: 19J100050

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS	LOT #
1. CONDUCTIVITY	1,000 μ Mhos	<u>✓</u>	<u>039920</u>
2. pH ZERO	pH 7	<u>✓</u>	<u>038497</u>
pH SLOPE	pH 4	<u>✓</u>	<u>038496</u>
pH SLOPE	pH 10	<u>✓</u>	<u>57332</u>
3. DISSOLVED OXYGEN	Air Calibration		
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	<u>✓</u>	N/A
ZERO TEST	(Sodium Sulfite)	<u>-</u>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<u>✓</u>	<u>04/27/2020</u>
TURBIDITY SPAN	100 NTU's	<u>✓</u>	<u>04/27/2020</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<u>✓</u>	<u>032420</u>

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T.L.

DATE: 4/27/2020

RENTAL CUSTOMER: TETRA TECH

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSIPRODSS. 41

SERIAL NUMBER: 19J101001

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS	LOT #
1. CONDUCTIVITY	1,000 μ Mhos	<u>✓</u>	<u>039920</u>
2. pH ZERO	pH 7	<u>✓</u>	<u>038497</u>
pH SLOPE	pH 4	<u>✓</u>	<u>038496</u>
pH SLOPE	pH 10	<u>✓</u>	<u>57332</u>
3. DISSOLVED OXYGEN	Air Calibration		
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	<u>✓</u>	N/A
ZERO TEST	(Sodium Sulfite)	<u>-</u>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<u>✓</u>	<u>04/27/2020</u>
TURBIDITY SPAN	100 NTU's	<u>✓</u>	<u>04/27/2020</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<u>✓</u>	<u>032420</u>

EQUIPCO

Rentals Sales Service

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: JC

DATE: 4/27/2020

RENTAL CUSTOMER: TETRA TECH

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSIPRODSS. 24

SERIAL NUMBER: 16J104980

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS	LOT #
1. CONDUCTIVITY	1,000 μ Mhos	<u>✓</u>	<u>039920</u>
2. pH ZERO	pH 7	<u>✓</u>	<u>038497</u>
pH SLOPE	pH 4	<u>✓</u>	<u>038496</u>
pH SLOPE	pH 10	<u>✓</u>	<u>57332</u>
3. DISSOLVED OXYGEN	Air Calibration		
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	<u>✓</u>	N/A
ZERO TEST	(Sodium Sulfite)	<u>—</u>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<u>✓</u>	<u>04/27/2020</u>
TURBIDITY SPAN	100 NTU's	<u>✓</u>	<u>04/27/2020</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<u>✓</u>	<u>032420</u>

EQUIPCO

Rentals Sales Service

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T.L.

DATE: 4/27/2020

RENTAL CUSTOMER: TETRA TECH

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSIPRODSS. 25

SERIAL NUMBER: 17M100632

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS	LOT #
1. CONDUCTIVITY	1,000 μ Mhos	<input checked="" type="checkbox"/>	<u>039920</u>
2. pH ZERO	pH 7	<input checked="" type="checkbox"/>	<u>038497</u>
pH SLOPE	pH 4	<input checked="" type="checkbox"/>	<u>038496</u>
pH SLOPE	pH 10	<input checked="" type="checkbox"/>	<u>57332</u>
3. DISSOLVED OXYGEN	Air Calibration		
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfite)	<input checked="" type="checkbox"/> <input type="checkbox"/>	N/A <u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<input checked="" type="checkbox"/>	<u>04/27/2020</u>
TURBIDITY SPAN	100 NTU's	<input checked="" type="checkbox"/>	<u>04/27/2020</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<input checked="" type="checkbox"/>	<u>032420</u>



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: *A. Morgan*

Serial Number: 15104980

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/4/20	1500	22.3	4.12	4.12 ^{6.91}	9.75	228.4	1.092	93.4	-0.6	4.00	6.97	10.02	235.1	1.000	93.6	0.0
5/5/20	1515	22.1	4.16	7.09	10.02	234.9	0.969	93.2	5.1	3.99	7.05	10.00	235.5	1.000	93.5	0.0
5/6/20	1525	22.3	4.04	7.03	10.09	232.6	1.001	93.3	-5.0	4.00	7.00	10.01	235.0	1.000	93.2	0.0
5/7/20	1515	23.1	3.90	7.14	10.16	236.0	1.011	93.4	-0.6	3.92	7.00	10.00	234.4	1.000	94.5	0.0
5/8/20	1425	21.8	3.79	7.02	10.18	234.5	0.934	92.8	0.7	4.01	7.00	10.00	235.2	1.000	93.9	0.0
5/10/20	1525	23.4	4.25	7.06	9.95	229.1	1.050	90.1	0.1	4.00	6.99	10.02	233.0	1.00	92.9	0.1
5/12/20	1430	23.3	3.90	7.00	9.98	233.4	0.995	93.2	0.8	4.00	7.00	10.00	233.3	1.000	92.9	0.1
5/13/20	1455	22.6	4.20	6.83	10.03	234.0	0.936	93.5	0.5	4.04	7.00	10.01	237.0	1.000	92.9	0.0
5/14/20	1500	22.3	4.01	7.03	10.04	232.3	1.002	93.0	1.1	4.00	7.00	10.01	234.5	1.000	93.0	0.0
5/15/20	1520	22.8	3.91	7.02	9.97	228.7	1.030	93.0	-2.1	4.00	7.00	10.00	233.9	1.000	93.0	0.0

Notes:





Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: *A. Morgan*

Serial Number: 115104980

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/18/20	1520	23.5	3.89	7.12	9.96	214.3	0.959	93.2	0.9	4.00	6.99	9.99	232.4	1.001	92.7	0.0
5/19/20	1525	22.3	4.01	7.12	10.14	237.8	1.211	93.7	1.0	4.00	6.99	9.99	234.5	0.999	93.1	0.0
5/21/20	0830	22.1	3.78	7.11	9.78	230.2	0.816	92.8	-1.0	3.92	6.98	9.78 10.01	235.0	1.000	93.7	0.0
5/22/20	0600	22.1	4.11	7.12	9.92	228.0	1.190	93.8	-0.6	4.00	7.00	9.98	234.3	0.983	92.8	0.0

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: Ron Phillips

Serial Number: 195101001

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5-4-20	15:05	22.5	4.08	7.18	10.01	225.6	1.012	90.6	-1.02	4.0	7.0	10	237	1.060	100	0
5-5-20	15:15	24.7	4.03	7.01	10.07	223.2	1.052	101.0	-0.61	4.0	7.0	10.04	233	1.049	100	0
5-6-20	15:05	26.0	3.47	6.99	10.00	235.7	1.007	100.7	-0.22	4.0	7.0	10.02	234.3	1.007	100	0
5-7-20	14:30	22.8	4.19	6.94	9.85	233.4	0.995	99.2	0.90	4.0	7.01	10	234.0	1.000	100	0.06
5-8-20	14:25	26.6	3.97	7.03	10.02	232.2	1.001	100.3	-0.78	4.0	7.0	10.0	233.5	1.000	100	0.03
5-11-20	16:35	30.7	4.16	7.02	10.17	232.7	0.977	97.6	0.20	4.0	7.01	10.0	233.2	1.000	100.1	0
5-12-20	15:00	29.7	4.28	7.01	10.11	231.2	0.994	101.3	0.97	4.0	7.00	10.0	233.3	1.000	100.0	0
5-13-20	15:18	22.7	4.09	7.04	10.19	234.3	0.997	96.9	1.53	4.0	7.00	10.00	234.1	0.995	100.0	0
5-14-20	15:08	23.7	4.11	7.06	9.96	236.3	0.986	101.4	-1.9	4.0	7.00	10.01	233.7	1.000	100.0	0
5-15-20	14:00	23.9	4.13	7.02	10.08	229.2	1.129	100.4	0.38	4.0	7.0	10.0	232.1	0.997	100.0	0

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: Ron Phillips

Serial Number: 19J101001

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5-18-20	15:45	24.5	4.04	7.06	9.91	234.6	0.891	101.1	-0.1	4.0	7.0	10.0	232.9	1.000	100%	0.03
5-19-20	15:00	23.9	3.92	7.02	10.17	237.7	1.096	100.0	0.01	4.0	7.0	10.0	234.9	1.000	100.0	0.00
5-20-20	13:10	23.4	4.10	6.99	9.91	196.7 236.3	1.023	100.2	-0.05	4.0	7.0	10.0	234.6	1.000	100.0	-0.02
5-21-20	18:35	23.7	3.90	7.11	10.09	229.9	0.471	100.6	0.02	4.0	7.0	10.0	233.4	1.000	100.0	-0.01

Notes:



Task Name: GW Monitoring	Task No.: H02	Rental from: EQUIPCO	Task Manager: Jesse Bunkers
Field Personnel: A. Crummett		Serial Number: 195100050	Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/4/2020	15:15	24.0	4.01	7.09	9.99	224.6	0.999	94.6%	-2.42	3.99	7.01	10.00	232.1	0.999	100%	-2.44
5/5/2020	15:20	23.9	3.88	7.04	9.93	232.2	0.982	100.1%	-2.39	3.96	7.02	9.95	233.7	0.978	100.0%	-2.45
5/6/2020	15:45	25.7	3.99	7.07	9.89	234.0	0.990	101.0%	-2.38	4.01	7.06	9.99	231.2	0.983	100.0%	-2.40
5/7/2020	13:49	24.6	4.12	6.99	9.91	233.1	0.962	100.1%	-2.40	4.04	7.03	10.05	234.9	0.962	100.1%	-2.42
5/8/2020	15:17	23.1	4.11	7.07	9.93	233.0	1.282	98.9%	-2.33	4.00	7.01	10.07	233.9	0.63	100.0%	-2.40
5/11/2020	15:07	24.2	4.10	7.17	9.86	228.4	0.808	100.6%	-2.30	4.07	7.01	9.98	232.3	1.000	100.0%	-2.30
5/12/2020	14:25	23.5	4.20	7.07	10.10	236.2	0.946	99.6%	-2.25	4.07	7.00	10.09	233.4	1.000	100.0%	-2.27
5/13/2020	14:52	23.2	4.07	6.95	9.78	239.5	1.017	100.1%	-1.88	3.98	7.01	10.01	234.1	1.000	100.0%	-1.96
5/14/2020	15:52	23.3	4.18	6.96	9.70	234.3	1.007	99.8	-1.91	4.00	7.00	10.00	233.4	0.998	100.0%	0.00
5/15/2020	14:45	24.2	3.95	4.83	9.88	220.9	1.001	100.7%	-1.96	4.00	7.00	10.00	231.9	1.000	100.0%	-1.94

Notes:



Task Name: GW Monitoring	Task No.: H02	Rental from: EQUIPCO	Task Manager: Jesse Bunkers
Field Personnel: <i>Crockett</i>	Serial Number: <i>19J100050</i>		Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/18/20	1508	23.1	4.23	7.22	10.01	239.2	1.158	99.0	-2.0	3.98	7.07	10.00	232.9	0.998	100.0	0.0
5/19/20	1503	23.4	4.14	6.83	9.51	204.8	0.925	99.5	-1.63	3.99	7.00	10.04	234.0	1.001	100.0	0.0
5/21/20	1830	23.4	3.87	7.02	9.79	255.0	0.967	101.1	-1.63	4.00	7.00	10.00	233.1	0.998	100.0	0.0

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: B. Chhun

Serial Number: 17M100632

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/4/20	1500	22.4	4.15	7.05	9.93	228.4	1.052	94.2 100.4	0.8	4.0	7.02	10.00	235.1	1.000	100.4	0.0
5/5/20	1625	22.3	4.05	7.08	10.08	235.5	0.987	99.5	-1.3	4.0	7.00	10.0	234.8	1.000	100.2	0.0
5/6/20	1648	22.7	4.29	6.96	9.82	231	1.128	100%	0.9	4.0	7.01	10.0	234.1	1000	99.9%	0.0
5/7/20	1350	23.8	4.03	6.89	9.96	234.4	0.956	100.2	0.2	4.0	7.01	10.0	234.7	1000	100.3	0.0
5/8/20	1400	24.5	3.79	7.01	10.18	236.3	1.191	100.4	0.1	4.00	7.00	10.0	235.4	1000	100.2	0.0
5/11/20	1510	22.5	4.49	7.09	9.97	235.5	0.942	98.3	0.1	4.00	7.00	10.0	233.5	1.000	99.9	0.0
5/12/20	1445	34.9	4.34	7.04	9.92	231.5	0.946	98.5	1.7	4.01	7.00	10.0	232.6	1.000	99.6	0.0
5/13/20	1515	22.8	4.05	7.01	9.90	236.0	0.989	99.7	0.3	4.0	7.01	10.0	234.0	1.000	100.1	0.0
5/14/20	1500	23.4	4.10	7.10	10.03	230.6	1.038	99.5	0.6	4.0	7.00	10.0	232.2	1.000	99.8	0.0
5/15/20	1400	22.7	3.87	6.93	9.95	234.6	1.060	98.5	3.2	4.0	7.00	10.0	233.0	1.000	99.8	0.0

Notes:



CALIBRATION LOG - WATER QUALITY METER

Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: Buhun

Serial Number: ~~8647~~ ^{BL} 3881

Type: YSI ProDSS^{PC} YSI EX01

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/18/20	1522	25.3	4.04	6.95	9.85	210	1212	93.8	-0.96	4.00	7.01	10.00	231.9	1250	92.7	0.00
5/19/20	1525	21.9	4.03	7.18	10.18	243.7	1213	92.9	-0.19	4.00	7.01	10.03	234.7	1265	93.0	0.00
5/20/20	1340	22.3	4.13	6.96	9.83	233.3	1320	93.4	0.27	4.00	7.01	10.03	234.3	1323	93.5	0.00
5/21/20	1820	23.1	4.49	7.46	10.02	241.9	1118	92.5	-0.29	4.00	7.01	10.00	233.1	1135	92.9	0.00

Notes:



Task Name: GW Monitoring	Task No.: H02	Rental from: EQUIPCO	Task Manager: Jesse Bunkers
Field Personnel: <u>Dylan Davis</u>	Serial Number: 16J104980	Type: YSI ProDSS	

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (µS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/4/20	1449	31.4	3.95	6.95	9.93	218	1.003	94.7%	-0.8	4.01	7.01	10.01	218	1.003	93.6%	0.0
						212.4	1.000									
5/5/20	1510	25.5	4.14	7.11	10.06	234.5	1.062	92.9%	0.3	4.00	7.00	10.0	235.00	1.000	93.6%	0
5/6/20	1459	27.4	4.00	6.97	10.03	231.6	1.104	92.8%	0.6	4.00	7.01	10.03	231.0	1.000	93.8%	0
5/7/20	1448	26.1	4.04	7.08	9.97	231.4	0.951	93.4%	0.0	4.00	7.01	10.03	231.0	1.000	93.0%	0
5/8/20	1453	25.6	4.12	7.06	10.04	224.1	0.882	93.2%	0.4	4.02	7.00	10.02	234.0	1.003	93.0%	0
5/11/20	1532	23.7	4.03	7.02	10.03	233.0	1.004	92.0%	0.1	4.00	7.01	10.00	231.0	1.004	92.8%	0
5/12/20	1515	25.8	3.89	6.99	9.99	236.5	0.906	95.3%	0.9	4.00	7.02	10.05	237.5	1.000	92.8%	0
5/13/20	1530	21.2	4.06	7.14	10.10	234.7	0.978	89.0%	1.4	4.00	7.02	10.01	237.5	1.000	92.9%	0
5/14/20	1524	21.0	3.99	7.05	10.05	238.0	0.987	95.0%	3.2	4.00	7.00	10.00	237.5	1.000	93.0%	0

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: Dylan Davis

Serial Number: 17M101693

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/15/20	1355	21.7	3.78	6.93	9.75	234.3	0.994	93.5	-0.1	4.0	7.02	10.05	236.1	1.000	93.1	0.0
5/18/20	1304	22.2	4.30	7.36	10.20	236.1	1.057	94.5	0.0	4.00	7.03	10.03	237.1	1.000	92.7	0.0
5/19/20	1314	21.5	4.27	7.41	10.19	235.5	0.978	92.2	0.2	4.00	7.02	10.04	235.7	1.000	93.1	0.0
5/20/20	1247	21.3	4.20	7.32	10.04	235.8	1.110	93.5	0.1	4.00	7.02	10.04	235.8	1.000	93.6	0.0
5/21/20	1801	21.4	3.82	7.23	9.77	235.2	1.105	92.5	0.4	4.00	7.02	10.04	235.8	1.087	93.0	0.0

Notes:



Task Name: GW Monitoring Task No.: H02 Rental from: EQUIPCO Task Manager: Jesse Bunkers
 Field Personnel: J. Masters Serial Number: 195101002 Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/11/20	1510	22.5	4.20	7.05	10.07	223.3	0.926	92.1	0.1	4.00	7.00	10.00	233.7	1.000	94.2	0.0
5/12/20	1445	31.7	4.25	7.03	10.09	219.4	1.077	93.1	-0.3	4.01	7.00	10.00	232.5	1.000	93.1	0.0
5/13/20	1445	24.0	4.07	7.07	10.06	236.7	0.884	91.3	0.0	4.00	7.01	10.00	234.4	1.000	93.4	0.0
5/14/20	1500	23.4	3.92	7.00	9.86	235.0	1.022	93.8	0.32	4.00	7.00	9.99	232.8	1.000	97.7	0.0
5/15/20	1400	22.8	3.91	6.99	10.25	234.1	1.001	93.3	-0.52	4.00	7.00	10.00	233.7	1.000	100.1	0.0
5/18/20	1400	26.9	4.21	7.15	9.94	232.9	1.019	93.0	-0.66	4.00	7.01	10.00	233.9	1.000	98.7	0.0
5/19/20	1430	21.7	3.95	7.07	10.09	203.7	1.130	99.5	-0.32	4.00	7.00	10.00	235.5	1.000	98.8	0.0
5/20/20	1330	22.5	3.97	7.12	10.07	205.6	1.085	92.5	-0.54	4.00	7.00	10.00	236.3	1.000	99.2	0.0

Notes:



Task Name: GW Monitoring	Task No.: H02	Rental from: EQUIPCO	Task Manager: Jesse Bunkers
Field Personnel: <i>Jokanan</i>		Serial Number: <i>28</i>	Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/18/2020	1530	23.5	4.20	7.04	9.94	224.0	1.041	101.2	-0.34	4.00	7.00	10.00	232.6	1.000	100	0
5/19/2020	1445	22.1	3.97	7.05	10.02	223.7	0.943	99.7	0.01	4.00	7.00	10.00	234.8	1.000	100	0
5/20/2020	1530	22.3	3.94	6.98	9.91	242.1	0.980	100.6	-0.14	4.00	7.00	10.00	234.4	1.000	100	0
5/21/2020	1630	22.5	4.04	6.98	9.96	228.4	0.984	97.5	0.04	4.0	7.0	10.0	234.0	1.000	100	0

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: J. Bunkers

Serial Number: YSI PRO DSS.38

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/4/20	1600	21.4	4.05	7.05	9.70	232.0	1.078	94.0	-2.40	4.00	7.00	10.00	236.3	1.080	94.4	0.00
5/5/20	1600	21.2	4.00	7.01	9.98	236.3	1.078	94.6	0.00	4.00	7.00	10.00	236.3	1.080	95.0	0.00
5/6/20	1615	21.3	4.01	7.00	10.00	236.4	1.048	96.4	0.01	4.00	7.01	10.00	236.3	1.050	95.5	0.00
5/7/20	1530	21.2	4.00	7.00	10.00	236.4	1.051	95.5	0.00	4.00	7.00	10.00	236.3	1.048	96.2	0.00
5/8/20	1545	21.2	4.02	7.02	10.03	235.7	1.060	95.8	0.00	4.00	7.00	10.00	236.3	1.050	95.5	0.00
5/11/20	1600	21.3	4.01	7.01	10.00	237.5	1.048	94.3	0.00	4.00	7.00	10.00	236.3	1.048	96.2	0.00
5/12/20	1600	21.3	4.00	7.00	10.00	236.3	1.053	94.6	0.00	4.00	7.00	10.00	236.3	1.048	96.0	0.00
5/19/20	1600	21.4	4.03	7.05	9.91	238.5	1.054	94.3	0.02	4.00	7.00	10.00	236.3	1.050	96.0	0.00
5/21/20	1840	22.2	5.50	8.30	10.85	232.1	1.083	99.0	0.06	4.00	7.00	10.00	234.7	1.045	99.7	0.00

Notes:

YSI-25



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO GeoTech

Task Manager: Jesse Bunkers

Field Personnel: J. Bunkers

Serial Number: 3881

Type: YSI ProDSS EXO 1

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
5/7/20	0750	24.9	4.01	7.00	10.00	216.2	1.060	94.2	0.0	4.01	7.00	10.00	229.4	1.030	98.5	0.0
5/8/20	1600	22.5	4.02	7.05	10.01	236.2	1.050	95.3	0.0	4.00	7.00	10.00	236.3	1.045	96.2	0.0
5/12/20	1530	22.4	4.00	7.00	10.00	238.5	1.040	95.2	0.0	4.00	7.00	10.00	236.3	1.048	94.5	0.0
5/14/20	1445	22.1	4.07	7.05	9.98	239.0	1.048	93.9	0.0	4.00	7.01	10.00	236.3	1.048	94.4	0.0
5/15/20	1430	22.1	4.22	7.10	10.03	245.0	1.048	94.4	1.77	4.00	7.02	10.05	236.3	1.048	94.4	0.0

Notes:



MAY 2020 Sampling Event

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

Issues/Concerns

IWF, SWF, AWF, AP5 Wells	DTW taken with Geotech Water Level Meter Serial #7053.
IWF, SWF, AWF, AP5 Wells	TWD taken with Heron Instruments dipper-T, serial # 1168-T. Some wells TWD probe too large to bypass pump/motor; had to use DTW probe to obtain TWD level.
PC99R2/R3	When taking TWD/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 MAY052020. Will be done on a Monthly basis by ETI.
**ART-1, ART-2, ART-2A,	**TWD changed from 5/2019 to 5/2020 more than 1 foot. Data recorded on Field Sheet.
**ART-3, ART-8A, ART-9, PC-120,	
**PC-116R, PC-120, E1-1, E2-2	
**I-B, I-K, I-L, I-O, I-R, I-W, I-Z	
*PC-116R, PC-117, PC-119,	*All have more than 1-foot difference in DTW from 4/2020 to 5/2020. Data recorded on field sheet
*PC-120, PC-121, ART-1, ART-1A, ART-2,	
*ART-2A, ART-3A, ART-4, ART-7B, ART-9,	
*PC-150, I-AC, I-AD, I-AR, I-B, I-C, I-E, I-F,	
*I-J, I-K, I-O, I-P, I-Q, I-R, I-U, I-W, I-Y	
ART-2 and ART-2A	Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 5 11 20
I-AB, I-AC, I-AD	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.
I-Y, I-P	ETI daily DTW measurements.
	Emily McGuire, John Sapp, and Thomas McDaniel sampled May 2020

FD/EB

SWF	PC-118 5 6 20 - FD	PC-119 5 6 20 - EB
AWF	ART-2/2A 5 11 20 - FD	ART-3A 5 11 20 - EB
IWF	I-Y 5 14 20 - FD	I-Z 5 13 20 - EB
AP5 Wells	E2-3 5 5 20 - FD	E2-4 5 5 20 - 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.

WATER SAMPLING FIELD LOG

	Well: I-AA
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: sunny	

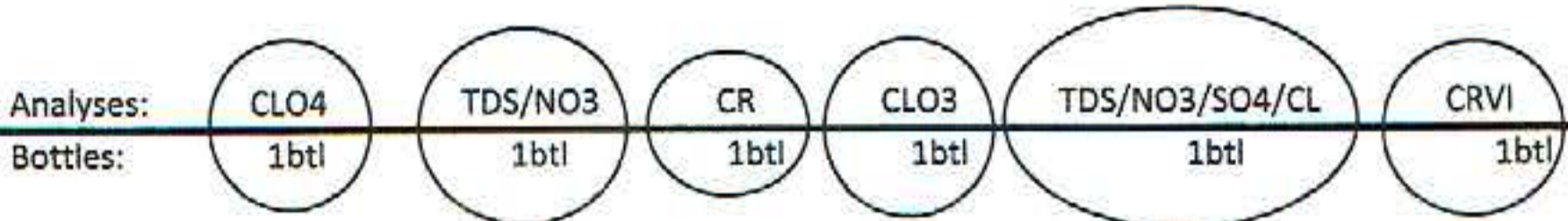
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1031
Total Well Depth(ft): 48.23 <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 38.81	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 9.42		

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: 5/14/20	Start Time: 1100		
Sample Time	pH	EC/MC	Temp	Well Observations
1101	7.40 <small>pH</small>	5.15 <small>mS/Cm</small>	27.9 <small>°C</small>	
Sample Appearance: clear w/ floaties				
Finish Time: 1103				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: <u>I-AB</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>5/14/20</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny</u>	

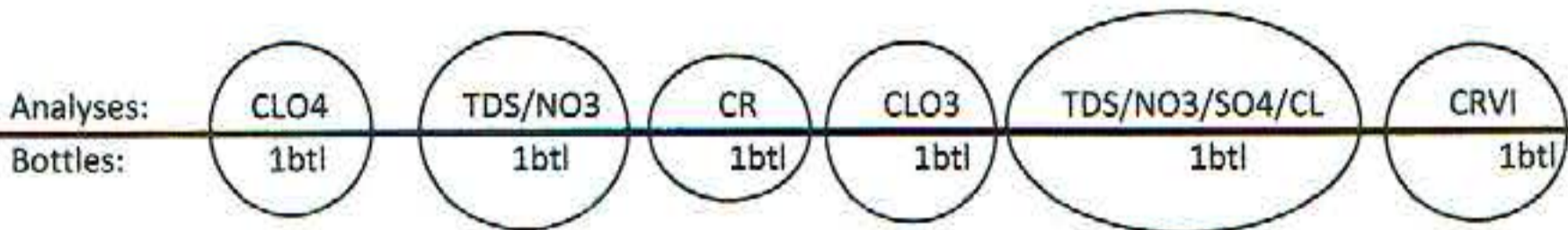
DTW ONLY

Well Depth Information-	Date: <u>5/14/20</u>	Time: <u>1034</u>
Total Well Depth(ft): <u>48.95</u> <small>(*NM*) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>32.89</u>	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): <u>16.06</u>		

Well Purge Required

Turned pump on at <u>1059</u> , flowing at <u>7</u> gpm. Purged for <u>4</u> minutes, <u>2</u> minutes required per well purge spreadsheet. Turned well off at <u>1110</u> .
--

Field Measurements-		Date: <u>5/14/20</u>	Start Time: <u>1104</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>1105</u>	<u>7.55</u> <small>pH</small>	<u>5.06</u> <small>mS/Cm</small>	<u>27.4</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1110</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-AC
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: sunny	

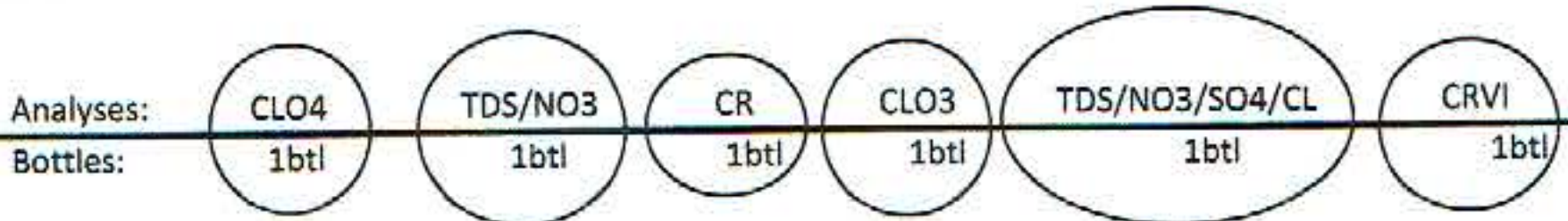
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1104
Total Well Depth(ft):	52.09	
<small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	28.72	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):	23.31	

Well Purge Required

Turned pump on at 1104 , flowing at 1.71 gpm, Purged for 4 minutes, 4 minutes required per well purge spreadsheet. Turned well off at 1115 .

Field Measurements-	Date: 5/13/20	Start Time: 1104		
Sample Time	pH	EC/MC	Temp	Well Observations
1108	7.23 <small>pH</small>	7.52 <small>mS/Cm</small>	27.2 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1114				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: <u>I-AD</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>5/13/20</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny</u>	

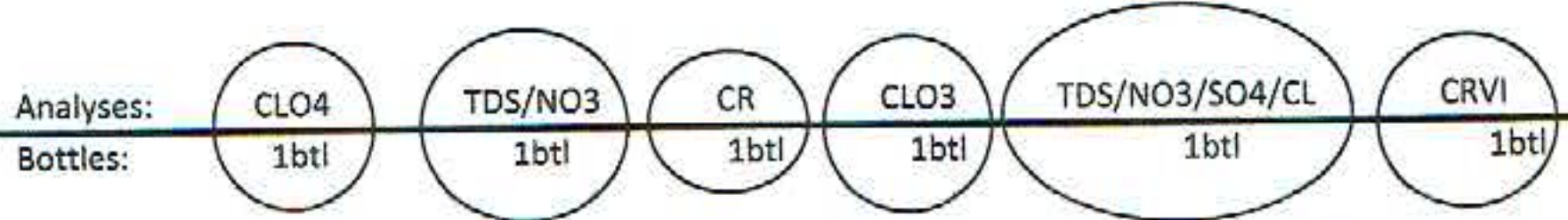
DTW ONLY

Well Depth Information-	Date: <u>5/13/20</u>	Time: <u>1116</u>
Total Well Depth(ft): <u>SM 29.1 53.09</u>	('NM') - No measurement taken, manually measured annually	
Depth to Water(ft): <u>29.1</u>	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): <u>23.99</u>		

Well Purge Required

Turned pump on at 1117, flowing at 13.2 gpm. Purged for 2 minutes, 2 minutes required per well purge spreadsheet. Turned well off at 1122.

Field Measurements-		Date: <u>5/13/20</u>	Start Time: <u>1104^{em} 1117</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>1120 1108^{em}</u>	<u>7.53</u> <small>pH</small>	<u>6.75</u> <small>mS/Cm</small>	<u>25.6</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1122</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-AR
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

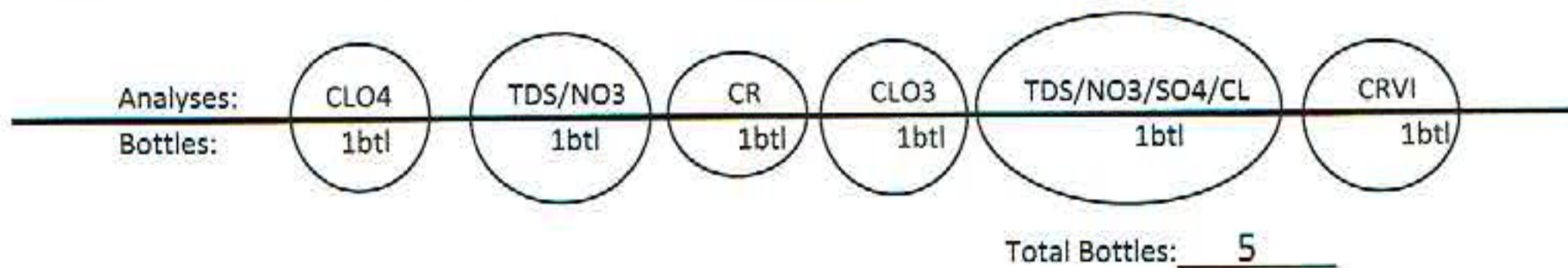
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1149
Total Well Depth(ft):	43.78	
<small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	35.81	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	7.97	

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: 5/14/20	Start Time: 1150		
Sample Time	pH	EC/MC	Temp	Well Observations
1151	7.54 <small>pH</small>	6.39 <small>mS/Cm</small>	28.2 <small>°C</small>	
Sample Appearance: cloudy rust orange				
Finish Time: 1158				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-B
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: Sunny	

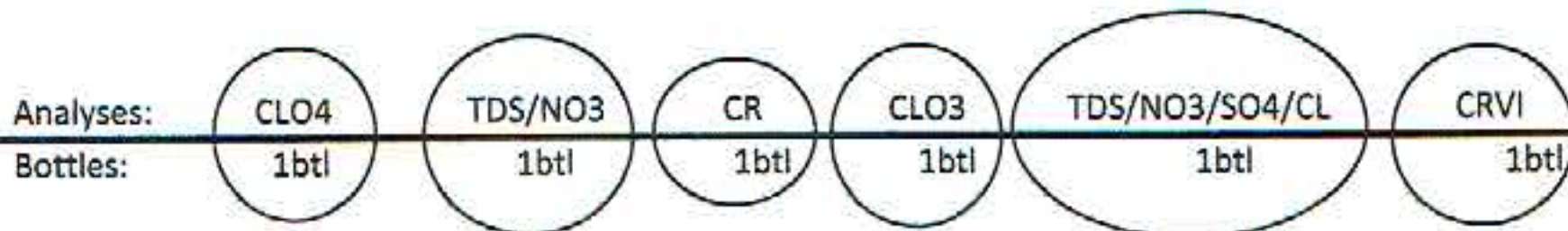
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1039
Total Well Depth(ft): 45.80	('NM') - No measurement taken, manually measured annually	
Depth to Water(ft): 42.09	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 3.71		

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: 5/14/20	Start Time: 1112		
Sample Time	pH	EC/MC	Temp	Well Observations
1113	7.24 <small>pH</small>	5.69 <small>mS/Cm</small>	27.1 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1116				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-D
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14 /20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

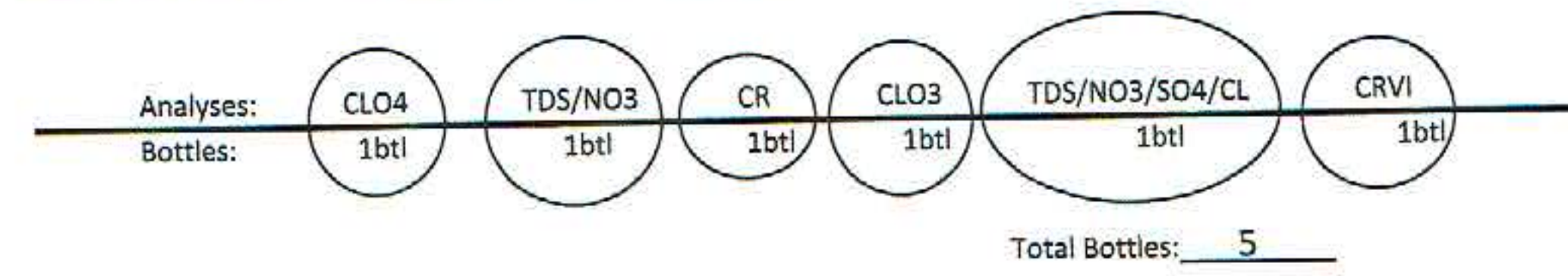
DTW ONLY

Well Depth Information-	Date: 5/14 /20	Time: 1224
Total Well Depth(ft): 48.39 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 28.26	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 20.13		

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: 5/14 /20	Start Time: 1224SM6		
Sample Time	pH	EC/MC	Temp	Well Observations
1224	8.60 <small>pH</small>	8.42 <small>mS/Cm</small>	27.9 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1231				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-E
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions:	

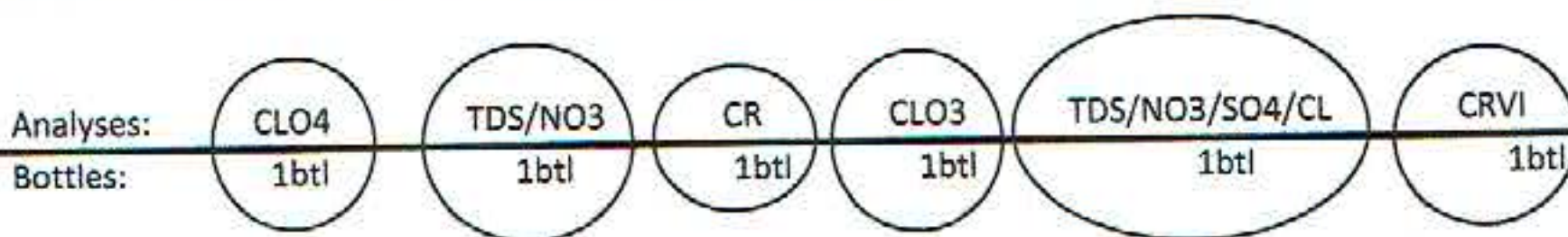
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1236
Total Well Depth(ft): 47.14	('NM') - No measurement taken, manually measured annually	
Depth to Water(ft): 28.26	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 18.88		

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: 5/14/20	Start Time: 1241		
Sample Time	pH	EC/MC	Temp	Well Observations
1242	7.53 <small>pH</small>	7.75 <small>mS/Cm</small>	28.1 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1245				



Total Bottles: 5

DUP EC Reading	QC
7.78 <small>mS/Cm</small>	
28.1 <small>°C</small>	<small>pH</small>

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-F
Sampling Team: Emily McGuire	Date(s): 5/14/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

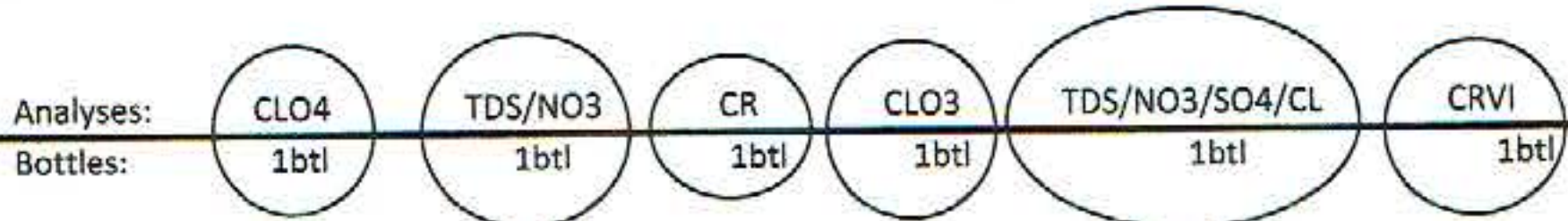
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1253
Total Well Depth(ft): 46.80 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 27.91		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 18.89		

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: 5/14/20	Start Time: 1259
Sample Time	pH	EC/MC	Temp	Well Observations	
1300	7.49 <small>pH</small>	9.02 <small>mS/Cm</small>	27.8 <small>°C</small>		
Sample Appearance: yellow					
Finish Time: 1302					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-G
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions:	

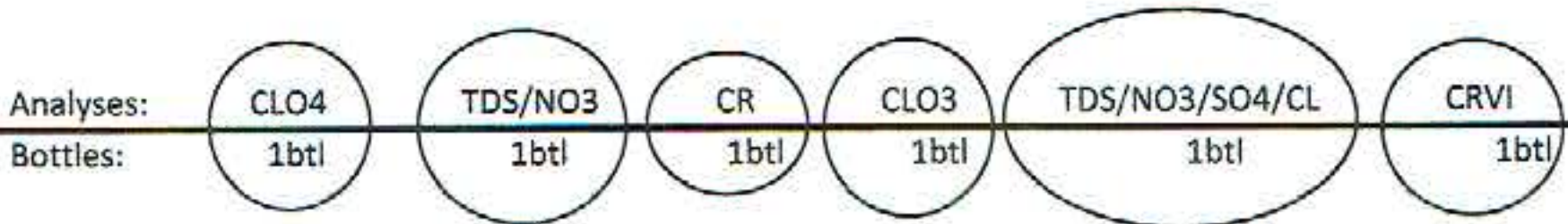
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 0947
Total Well Depth(ft): 42.63 <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 29.00	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 13.63		

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: 5/13/20	Start Time: 1255		
Sample Time	pH	EC/MC	Temp	Well Observations
1256	7.23 <small>pH</small>	10.59 <small>mS/Cm</small>	29.6 <small>°C</small>	
Sample Appearance: yellow w/ floaties				
Finish Time: 1259				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-H
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

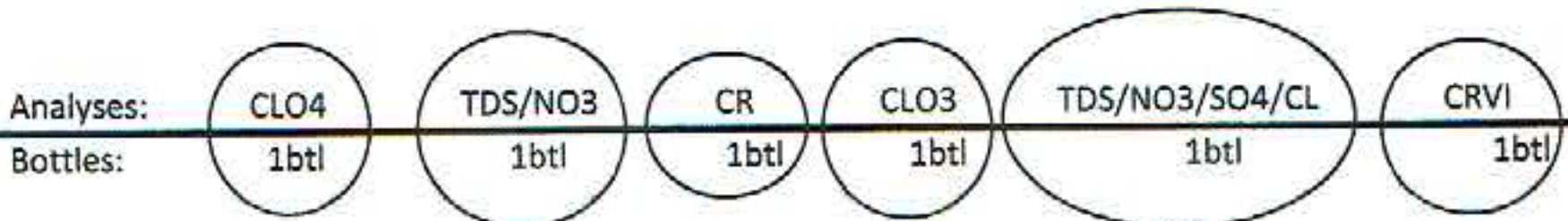
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 0959
Total Well Depth(ft): 46.60 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 31.59	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 15.01		

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: 5/13/20	Start Time: 1307		
Sample Time	pH	EC/MC	Temp	Well Observations
1308	7.50 <small>pH</small>	10.48 <small>mS/Cm</small>	27.9 <small>°C</small>	
Sample Appearance: yellow w/ floaties				
Finish Time: 1310				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-I
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

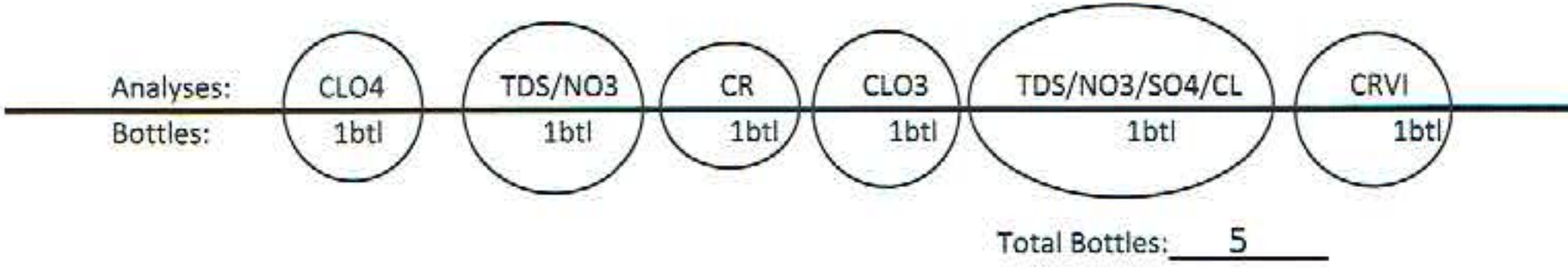
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1049
Total Well Depth(ft): 42.62 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 22.28	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 20.34		

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: 5/13/20	Start Time: 1154	
Sample Time	pH	EC/MC	Temp	Well Observations
1155	7.06 <small>pH</small>	7.67 <small>mS/Cm</small>	26.4 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1157				



DUP EC Reading	QC
7.66 <small>mS/Cm</small>	6.97 <small>pH</small>
26.4 <small>°C</small>	

WATER SAMPLING FIELD LOG

	Well: <u>I-J</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>5/13/20</u>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny</u>	

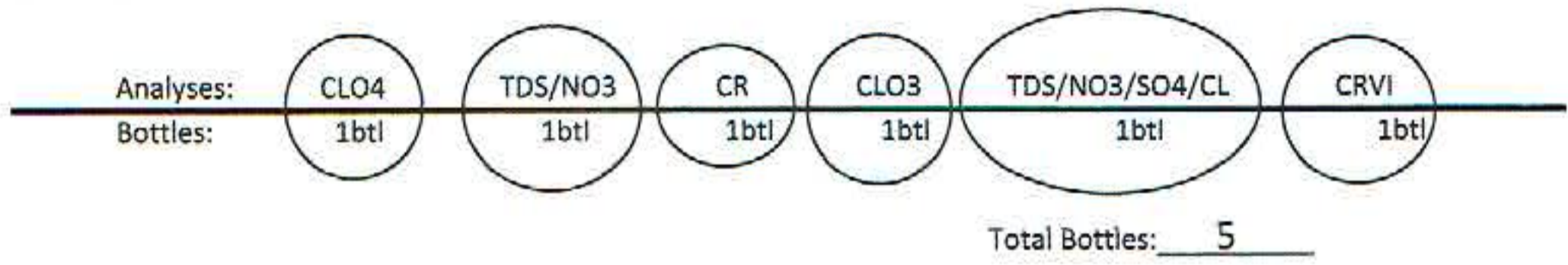
DTW ONLY

Well Depth Information-	Date: <u>5/13/20</u>	Time: <u>1136</u>
Total Well Depth(ft):	<u>44.60</u>	
<small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<u>36.29</u>	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	<u>8.31</u>	

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: <u>5/13/20</u>	Start Time: <u>1143</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>1144</u>	<u>7.04</u> <small>pH</small>	<u>6.44</u> <small>mS/Cm</small>	<u>26.8</u> <small>°C</small>	
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>1147</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-K
Sampling Team: Emily McGuire	Date(s): 5/13/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions:	

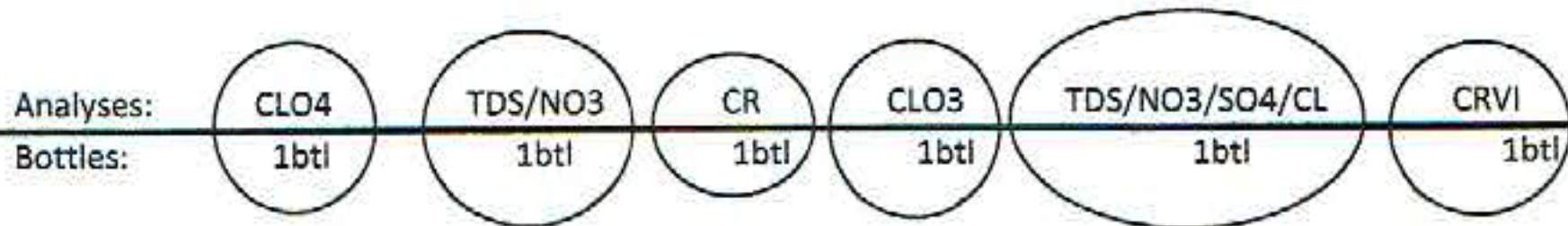
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1129
Total Well Depth(ft): 38.95 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 34.53		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 4.42		

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: 5/13/20	Start Time: 1130		
Sample Time	pH	EC/MC	Temp	Well Observations
1131	7.18 <small>pH</small>	7.56 <small>mS/Cm</small>	29.8 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1134				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-L
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

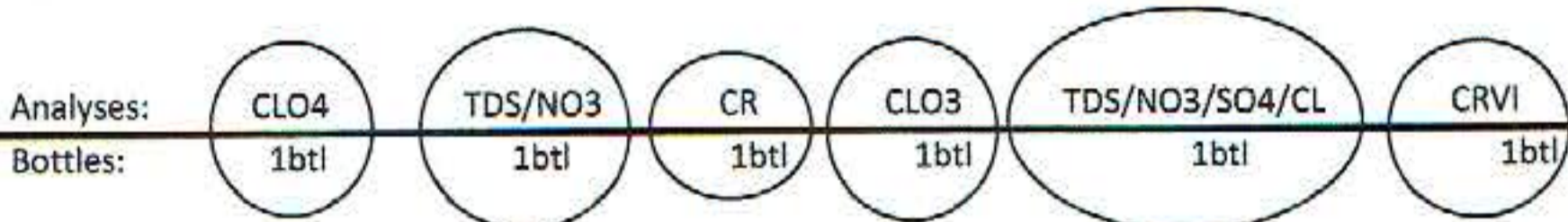
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1051
Total Well Depth(ft): 42.48	('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 30.11	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 12.37		

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: 5/14/20	Start Time: 1131		
Sample Time	pH	EC/MC	Temp	Well Observations
1132	7.47 <small>pH</small>	647 <small>mS/Cm</small>	27.6 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1137				



Total Bottles: 5

DUP EC Reading	QC
6.48 <small>mS/Cm</small>	6.99 <small>pH</small>
27.6 <small>°C</small>	

WATER SAMPLING FIELD LOG

	Well: I-m
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

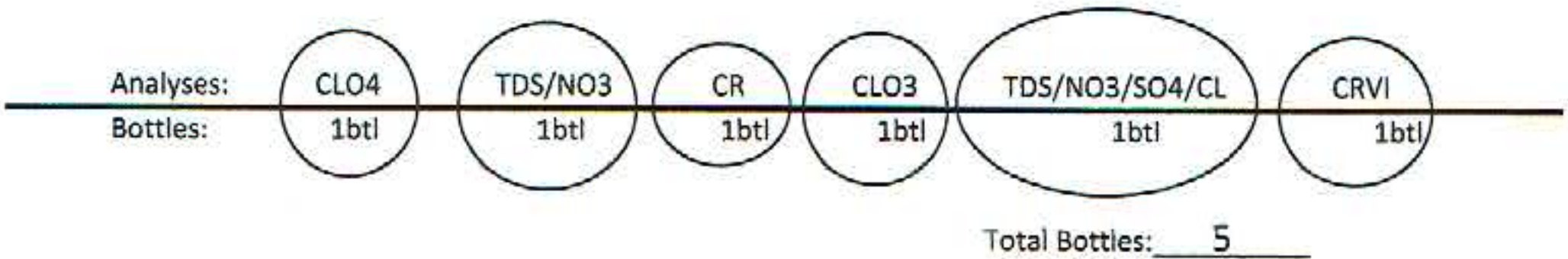
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1233
Total Well Depth(ft): 44.12 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 28.58		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 15.54		

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: 5/14/20	Start Time: 1238		
Sample Time	pH	EC/MC	Temp	Well Observations
1239	7.69 <small>pH</small>	7.80 <small>mS/Cm</small>	27.7 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1241				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-N
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1249
Total Well Depth(ft): 41.52 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 28.39	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 13.13		

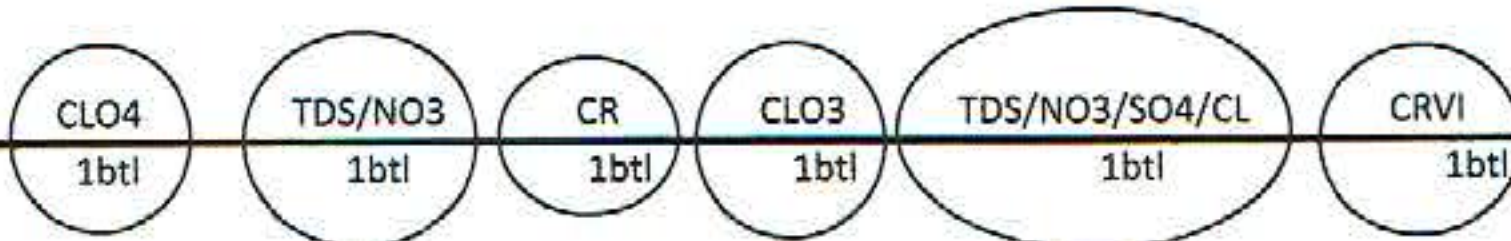
Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.

Field Measurements-	Date: 5/14/20	Start Time: 1252		
Sample Time	pH	EC/MC	Temp	Well Observations
1253	7.40	8.25	27.6	
Sample Appearance: pale yellow				
Finish Time: 1255				

Analyses:

Bottles:



Total Bottles: 5

DUP EC Reading	QC
8.26 <small>mS/Cm</small>	 <small>pH</small>
27.8 <small>°C</small>	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-0
Sampling Team: Emily McGuire	Date(s): 5/13/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

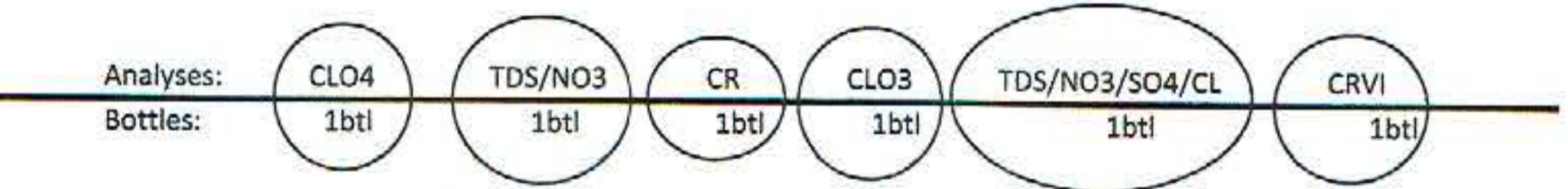
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1009
Total Well Depth(ft): 43.21 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 29.00		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 14.21		

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: 5/13/20	Start Time: 1316											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Sample Time</th> <th style="width: 15%;">pH</th> <th style="width: 15%;">EC/MC</th> <th style="width: 15%;">Temp</th> <th style="width: 40%;">Well Observations</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1317</td> <td style="text-align: center;">7.29 <small>pH</small></td> <td style="text-align: center;">10.08 <small>mS/Cm</small></td> <td style="text-align: center;">29.8 <small>°C</small></td> <td></td> </tr> </tbody> </table>	Sample Time	pH	EC/MC	Temp	Well Observations	1317	7.29 <small>pH</small>	10.08 <small>mS/Cm</small>	29.8 <small>°C</small>				
Sample Time	pH	EC/MC	Temp	Well Observations									
1317	7.29 <small>pH</small>	10.08 <small>mS/Cm</small>	29.8 <small>°C</small>										
Sample Appearance: yellow w/ floaties													
Finish Time: 1319													



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-P
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

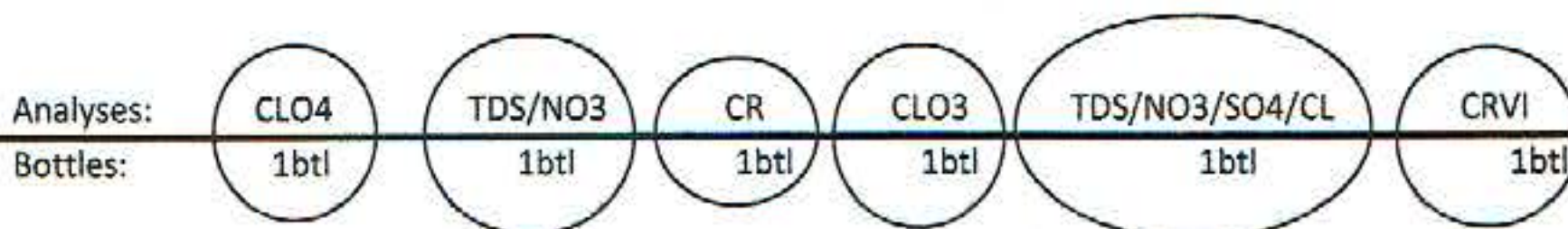
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1003
Total Well Depth(ft): 47.22 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 28.34	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 18.88		

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: 5/13/20	Start Time: 1310	
Sample Time	pH	EC/MC	Temp	Well Observations
1311	7.39 <small>pH</small>	10.51 <small>mS/Cm</small>	28.1 <small>°C</small>	
Sample Appearance: yellow w/ floaties				
Finish Time: 1313				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-Q
Sampling Team: Emily McGuire	Date(s): 5/13/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

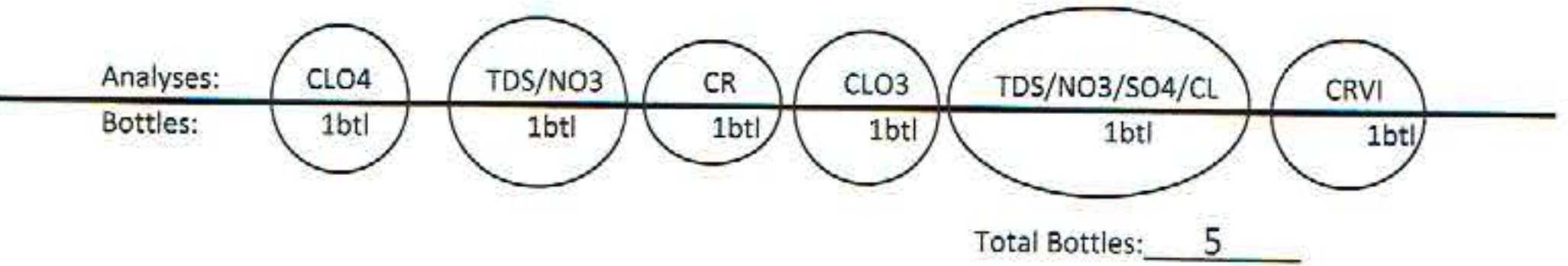
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1003
Total Well Depth(ft): unable to measure <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 29.56		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): unable to measure		

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: 5/13/20	Start Time: 1251
Sample Time	pH	EC/MC	Temp	Well Observations	
1252	6.96 <small>pH</small>	10.72 <small>mS/Cm</small>	28.5 <small>°C</small>		
Sample Appearance: yellow					
Finish Time: 1254					



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-R
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

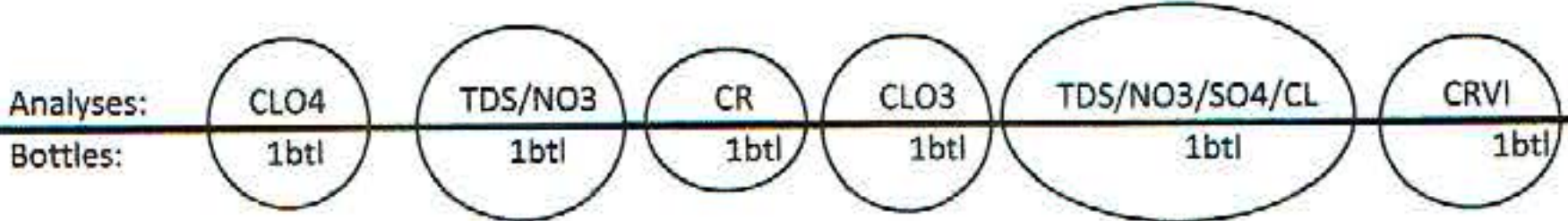
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1045
Total Well Depth(ft): 42.26 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 18.51	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 23.75		

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: 5/14/20	Start Time: 1117	
Sample Time	pH	EC/MC	Temp	Well Observations
1118	7.21 <small>pH</small>	6.68 <small>mS/Cm</small>	29.1 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1121				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-5
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1138
Total Well Depth(ft): 48.21 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 28.92	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 19.29		

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: 5/14/20	Start Time: 1139		
Sample Time	pH	EC/MC	Temp	Well Observations
1140	7.33 <small>pH</small>	6.79 <small>mS/Cm</small>	28.3 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1145				

Analyses:

Bottles:

CLO4

1btl

TDS/NO3

1btl

CR

1btl

CLO3

1btl

TDS/NO3/SO4/CL

1btl

CRVI

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-T
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

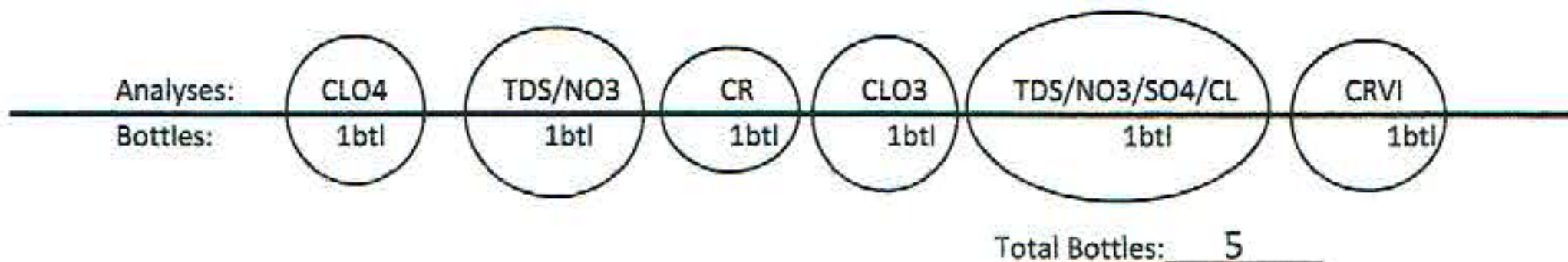
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 0951
Total Well Depth(ft): 47.90 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 31.09	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 16.81		

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: 5/13/20	Start Time: 1259		
Sample Time	pH	EC/MC	Temp	Well Observations
1300	7.21 <small>pH</small>	10.93 <small>mS/Cm</small>	29.7 <small>°C</small>	
Sample Appearance: yellow w/ floaties				
Finish Time: 1303				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-U
Sampling Team: Emily McGuire	Date(s): 5/13/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

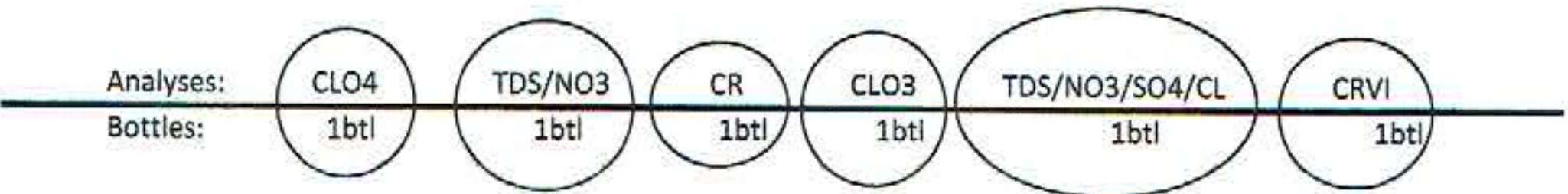
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1038 ^{5M} 0956
Total Well Depth(ft): 47.48 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 34.50		
Height of Water Column(ft): 12.98		

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: 5/13/20	Start Time: 1303	
Sample Time	pH	EC/MC	Temp	Well Observations
1304	7.34 <small>pH</small>	11.15 <small>mS/Cm</small>	30.0 <small>°C</small>	
Sample Appearance: yellow				
Finish Time: 1306				



Total Bottles: 5

DUP EC Reading	QC
11.24 <small>mS/Cm</small>	6.99 <small>pH</small>
30.2 <small>°C</small>	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: I-V
Sampling Team: Emily McGuire	Date(s): 5/13/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1038
Total Well Depth(ft): 43.68 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 29.70		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 13.98		

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: 5/13/20	Start Time: 1158		
Sample Time	pH	EC/MC	Temp	Well Observations
1159	7.24 <small>pH</small>	9.05 <small>mS/Cm</small>	25.9 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 12030				

Analyses:	CLO4	TDS/NO3	CR	CLO3	TDS/NO3/SO4/CL	CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl	1btl
Total Bottles: <u>5</u>						

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-W
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

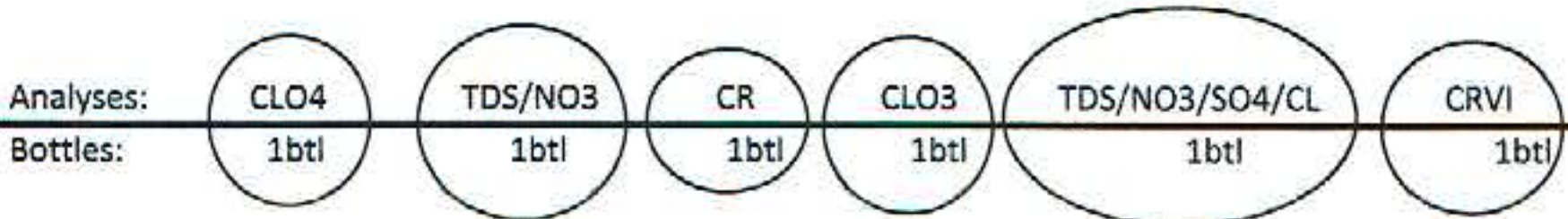
DTW ONLY

Well Depth Information-	Date: 5/13/20	Time: 1005
Total Well Depth(ft): 54.00 <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 28.24	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 25.76		

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: 5/13/20	Start Time: 1313		
Sample Time	pH	EC/MC	Temp	Well Observations
1314	7.39 <small>pH</small>	10.19 <small>mS/Cm</small>	29.2 <small>°C</small>	
Sample Appearance: yellow				
Finish Time: 1316				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-X
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

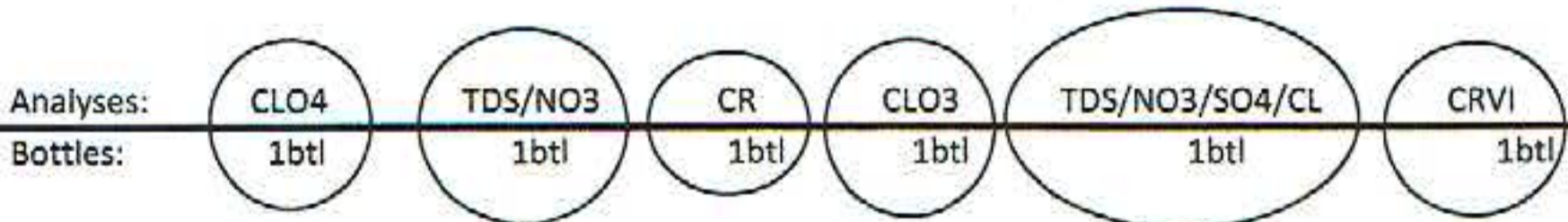
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1251
Total Well Depth(ft): 52.54 <small>("NM") - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 27.62 <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 24.92		

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: 5/14/20	Start Time: 1255		
Sample Time	pH	EC/MC	Temp	Well Observations
1256	7.55 <small>pH</small>	8.84 <small>mS/Cm</small>	27.1 <small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1258				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: I-4
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/14/20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: Sunny	

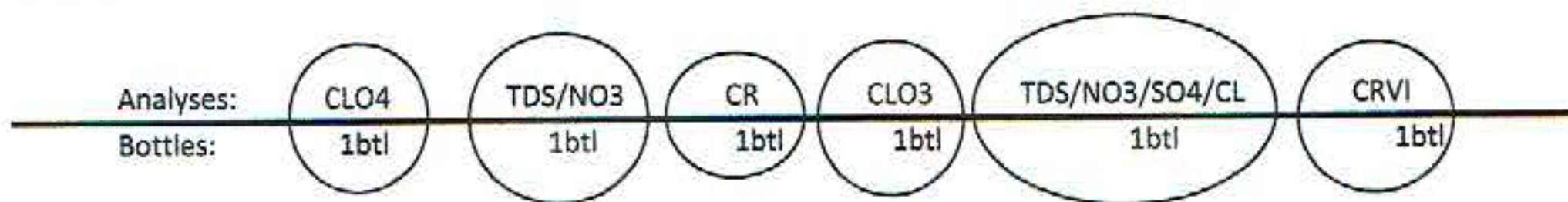
DTW ONLY

Well Depth Information-	Date: 5/14/20	Time: 1049
Total Well Depth(ft): 52.53	('NM') - No measurement taken, manually measured annually	
Depth to Water(ft): 34.17	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 18.36		

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: 5/14/20	Start Time: 1121		
Sample Time	pH	EC/MC	Temp	Well Observations
1122	7.29 <small>pH</small>	6.46 <small>mS/Cm</small>	27.7 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1130				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

I-4 5 14 20-FD

Collected at same time ~~for~~ before moving to next well, for same analysis

pH: 7.26 EC: 6.46 °C: 27.7

WATER SAMPLING FIELD LOG

	Well: I-7
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/13/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: sunny	

DTW ONLY

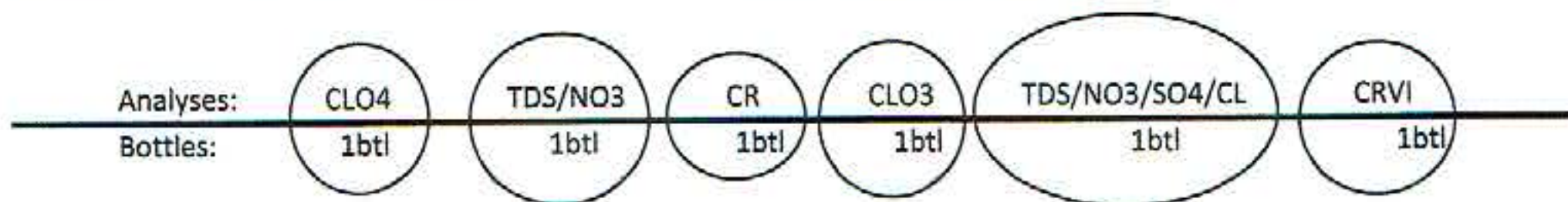
Well Depth Information-	Date: 5/13/20	Time: 1054
Total Well Depth(ft):	33.50*	
<small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	27.31	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	6.19*	

*cant get meter past pump

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: 5/13/20	Start Time: 1149		
Sample Time	pH	EC/MC	Temp	Well Observations
1150	7.22	7.23	26.6	
	<small>pH</small>	<small>mS/Cm</small>	<small>°C</small>	
Sample Appearance: pale yellow				
Finish Time: 1154				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

I-7 5 13 20-EB
collected for same
analysis before moving
on to next well.

Time: 1152 pH: 8.70 EC: 0.02 °C: 2

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <u>ART-1</u>
Sampling Team: Emily McGuire	Date(s): <u>5/11/20</u>
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny</u>	

DTW ONLY

Well Depth Information-	Date: <u>5/11/20</u>	Time: <u>1029</u>
Total Well Depth(ft): <u>52.98</u>	<small>('NM') - No measurement taken, manually measured annually</small>	
Depth to Water(ft): <u>30.57</u>	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): <u>22.41</u>		

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: <u>5/ /20</u>	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: ART-1A
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/11/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

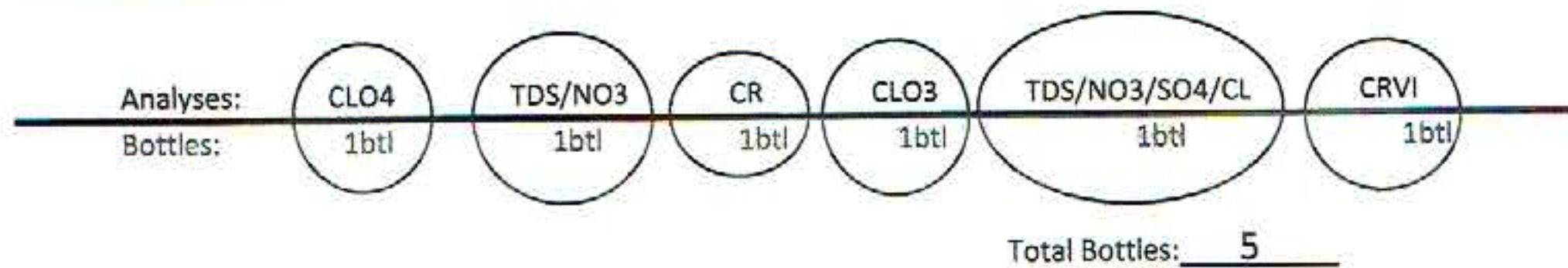
DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1028
Total Well Depth(ft):	54.93	
('NM') - No measurement taken, manually measured annually)		
Depth to Water(ft):	33.21	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	21.72	

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: 5/11/20	Start Time: 1109		
Sample Time	pH	EC/MC	Temp	Well Observations
1110	7.97 <small>pH</small>	6.97 <small>mS/Cm</small>	28.3 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1114				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Well: **ART-2**

Project/Site: NERT Project - Henderson Nevada Date(s): 5/11/20

Sampling Team: Emily McGuire

Sampling Method: Collected From Sample Port Hand Bailed due to well Location

Weather Conditions: **Sunny**

* Bottles labeled ART-2/2A 5 11 20, as both wells are pumping.

DTW ONLY

Well Depth Information- Date: 5/11/20 Time: **1034**

Total Well Depth(ft): **42.26**
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): **33.15**
 Manually Taken at Well Taken at Control Panel

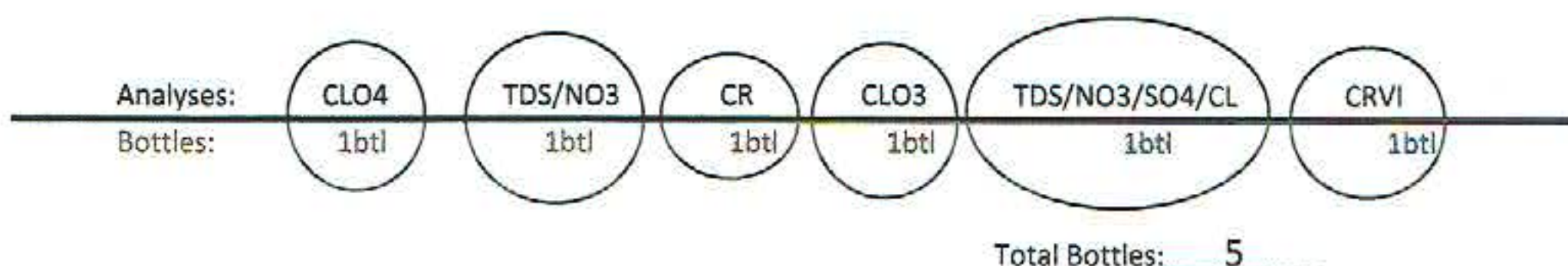
Height of Water Column(ft): **9.11**

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: 5/11/20 Start Time: **1114**

Sample Time	pH	EC/MC	Temp	Well Observations
1115	7.58 <small>pH</small>	12.94 <small>mS/Cm</small>	29.9 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1121				



DUP EC Reading	QC
12.98 <small>mS/Cm</small>	pH
30.5 <small>°C</small>	

ART-2/2A 5 11 20-FD
 Collected at same time for same analysis, before moving to next well.
 pH: 7.60 EC: 12.98 °C: 30.5

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-2A*
Sampling Team: Emily McGuire	Date(s): 5/11/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

* Bottles labeled ART-2/2A 5 20,
both wells pumping

<input checked="" type="checkbox"/> DTW ONLY		
Well Depth Information-	Date: 5/11/20	Time: 1033
Total Well Depth(ft): 56.95 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 35.14		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 21.81		

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: 5/11/20	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
See	ART-2 _{pH}	Field log	°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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: ART-3
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/11/20
Sampling Team: Emily McGuire	
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1044
Total Well Depth(ft): 47.57 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 36.04	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 11.53		

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: 5/ /20	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: ART-3A
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/ 11 /20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/ 11 /20	Time: 1042
Total Well Depth(ft):	54.48	
('NM' - No measurement taken, manually measured annually)		
Depth to Water(ft):	45.68	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):	8.80	

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: 5/ 11 /20	Start Time: 1121	
Sample Time	pH	EC/MC	Temp	Well Observations
1122	7.61 <small>pH</small>	9.68 <small>mS/Cm</small>	26.3 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1126				

Analyses:	CLO4	TDS/NO3	CR	CLO3	TDS/NO3/SO4/CL	CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl	1btl
Total Bottles: <u>5</u>						

DUP EC Reading	QC
mS/Cm	pH
°C	

ART-3 5 11 20-EB
Collected here for same analysis before moving to next well.

Time: 1124 pH: 8.55 EC: 0.05 °C: 25.1

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-4
Sampling Team: Emily McGuire	Date(s): 5/ 11 /20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

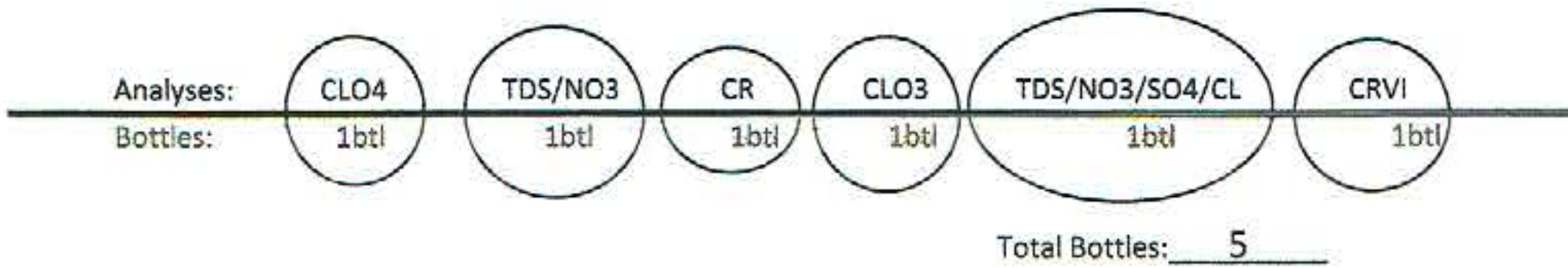
DTW ONLY

Well Depth Information-	Date: 5/ 11 /20	Time: 1049
Total Well Depth(ft): 43.43 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 43.43 38.70		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 4.73		

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: 5/ 11 /20	Start Time: 1126	
Sample Time	pH	EC/MC	Temp	Well Observations
1127	7.50	7.36	28.5	
Sample Appearance: clear				
Finish Time: 1131				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-4A
Sampling Team: Emily McGuire	Date(s): 5/ 11 /20
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/ 11 /20	Time: 1047
Total Well Depth(ft): 45.17 <small>(*NM*) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 35.08		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 10.09		

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: 5/ /20	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <u>ART-6</u>
Sampling Team: Emily McGuire	Date(s): <u>5/11/20</u>
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny</u>	

DTW ONLY

Well Depth Information-	Date: <u>5/11/20</u>	Time: <u>1019</u>
Total Well Depth(ft): <u>34.18</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>30.57</u> <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): <u>3.61</u>		

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: <u>5/ /20</u>	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-7A
Sampling Team: Emily McGuire	Date(s): 5/11/20
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1015
Total Well Depth(ft): 38.03 <small>(*NM*) - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 30.12	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 7.91		

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: 5/ /20	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: ART-7B
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/11/20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: Sunny	

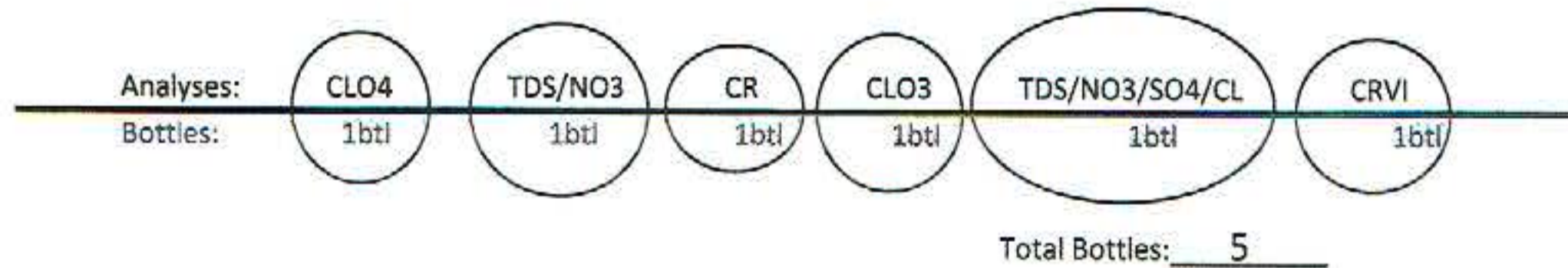
DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1013
Total Well Depth(ft): 47.51	<small>(*NM*) - No measurement taken, manually measured annually)</small>	
Depth to Water(ft): 41.73	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 5.78		

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: 5/11/20	Start Time: 1131	
Sample Time	pH	EC/MC	Temp	Well Observations
1132	7.50 <small>pH</small>	9.32 <small>mS/Cm</small>	27.3 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1134				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-8
Sampling Team: Emily McGuire	Date(s): 5/11/20
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1040
Total Well Depth(ft): 41.41 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 35.51 <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 5.90		

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: 5/ /20	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	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: 0

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-8A
Sampling Team: Emily McGuire	Date(s): 5/ 11 /20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

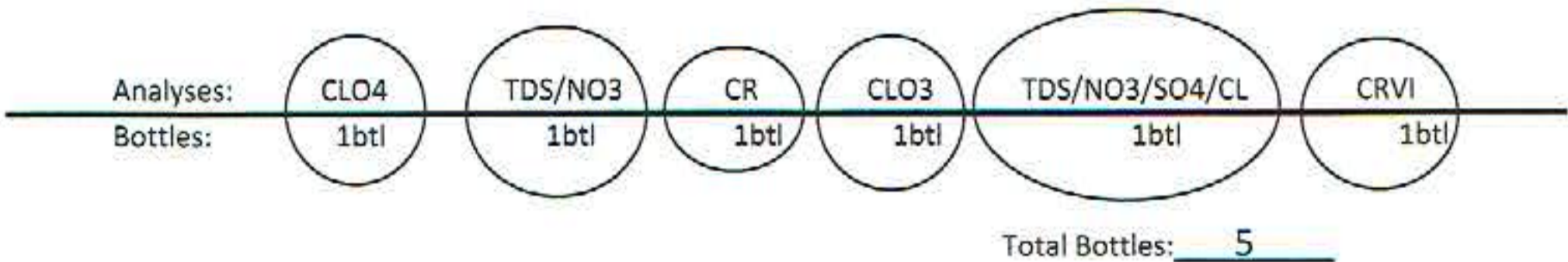
DTW ONLY

Well Depth Information-	Date: 5/ 11 /20	Time: 1036
Total Well Depth(ft): 54.87 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 40.99		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 13.88		

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: 5/ 11 /20	Start Time: 1135
Sample Time: 1136	pH: 7.38	EC/MC: 12.45
	<small>pH</small>	<small>mS/Cm</small>
		Temp: 26.5
		<small>°C</small>
Sample Appearance: Clear		
Finish Time: 1139		



DUP EC Reading	QC
12.47 <small>mS/Cm</small>	6.98 <small>pH</small>
26.4 <small>°C</small>	

WATER SAMPLING FIELD LOG

	Well: ART-9
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/11/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

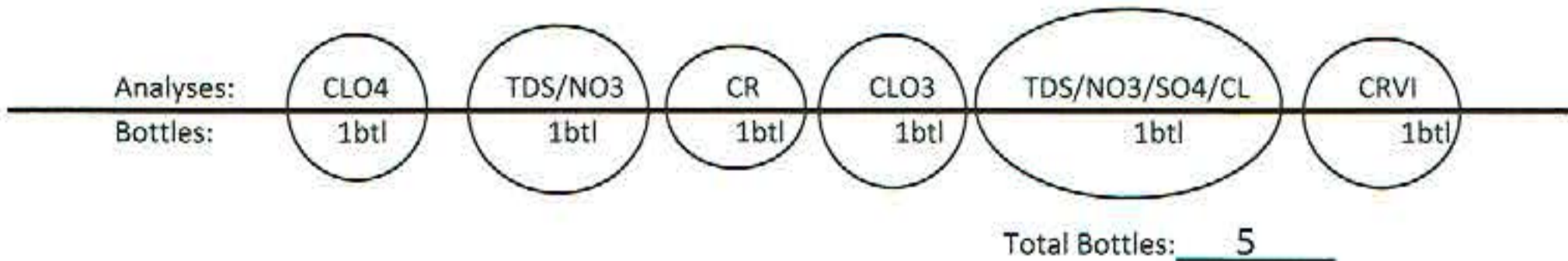
DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1017
Total Well Depth(ft): 42.13 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 32.99	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 9.14		

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: 5/11/20	Start Time: 1139		
Sample Time	pH	EC/MC	Temp	Well Observations
1140	7.66 <small>pH</small>	7.59 <small>mS/Cm</small>	26.7 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1142				



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: PC-99 R2/R3
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/ <u>6</u> /20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>Sunny</u>	

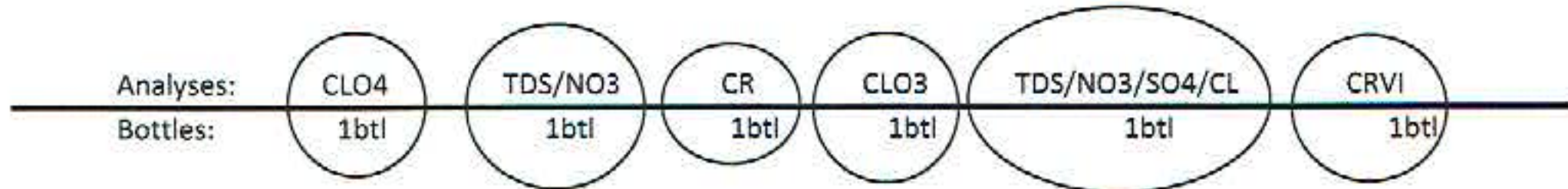
DTW ONLY

Well Depth Information-	Date: 5/ <u>6</u> /20	Time: <u>1156</u> ^{am} <u>1305</u>
Total Well Depth(ft):	<u>Unable to get probe in.</u> <small>('NM') - No measurement taken, manually measured annually</small>	
Depth to Water(ft):	<u>10.75</u>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> 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: 5/ <u>6</u> /20	Start Time: <u>1156</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>1157</u>	<u>7.20</u> <small>pH</small>	<u>4.99</u> <small>mS/Cm</small>	<u>22.9</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1200</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: PC-115R
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/6/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

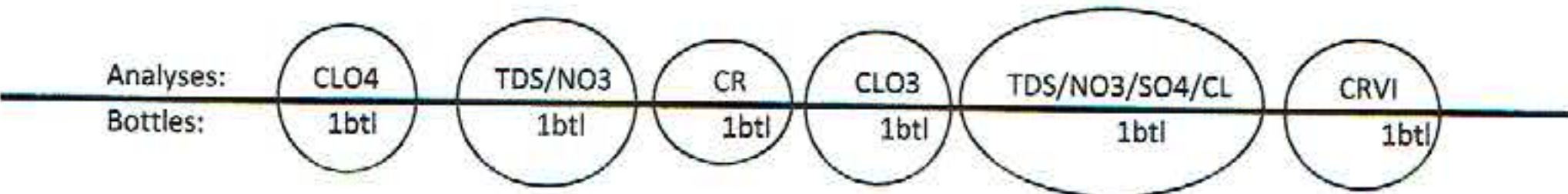
Well Depth Information-	Date: 5/6/20	Time: 1105
Total Well Depth(ft): 12.78*	('NM') - No measurement taken, manually measured annually)	
Depth to Water(ft): 11.41	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 1.37		

**Not hitting bottom. Couldn't get any farther into well.*

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: 5/6/20	Start Time: 1200	
Sample Time	pH	EC/MC	Temp	Well Observations
1201	7.38	4.27	24.8	
Sample Appearance: Clear				
Finish Time: 1203				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: PC-116R
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/6/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

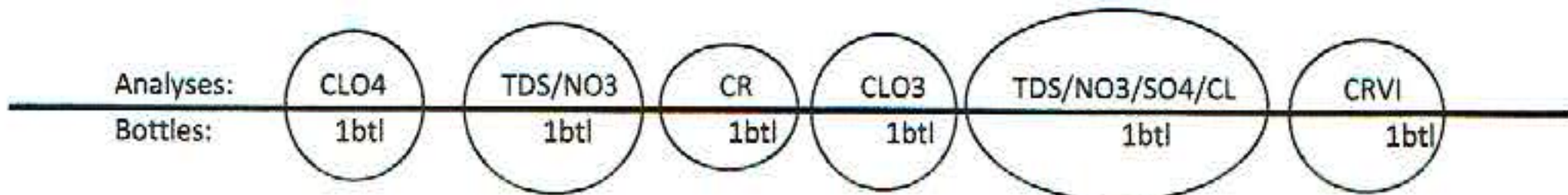
DTW ONLY

Well Depth Information-	Date: 5/6/20	Time: 1052
Total Well Depth(ft): 30.02 <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 14.71	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 15.31		

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: 5/6/20	Start Time: 1203		
Sample Time	pH	EC/MC	Temp	Well Observations
1204	7.41 <small>pH</small>	4.60 <small>mS/Cm</small>	24.6 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1206				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

	Well: PC-117
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/6 /20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

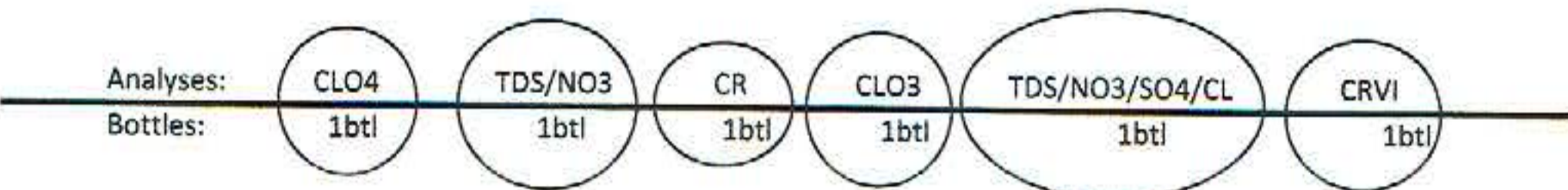
DTW ONLY

Well Depth Information-	Date: 5/6 /20	Time: 1049
Total Well Depth(ft): 47.07 <small>(*NM*) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 14.25	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 32.82		

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: 5/6 /20	Start Time: 1206	
Sample Time	pH	EC/MC	Temp	Well Observations
1206	7.43 <small>pH</small>	3.74 <small>mS/Cm</small>	23.9 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1211				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: PC-118
Sampling Team: Emily McGuire	Date(s): 5/6/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

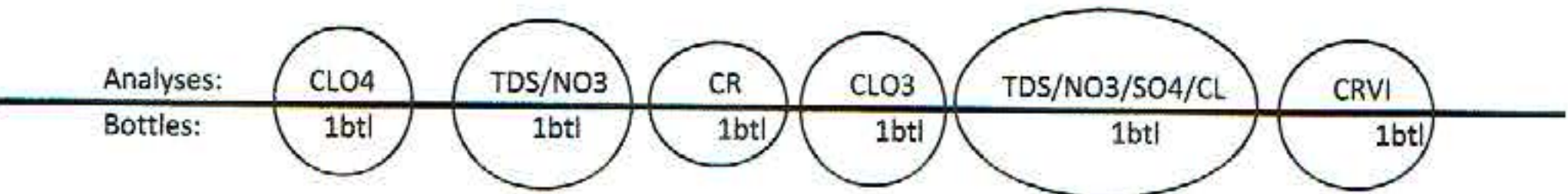
DTW ONLY

Well Depth Information-	Date: 5/6/20	Time: 1117
Total Well Depth(ft): 48.25 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 7.30		
Height of Water Column(ft): 40.95		

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: 5/6/20	Start Time: 1212
Sample Time: 1213	pH: 7.48	EC/MC: 3.77
Sample Appearance: Clear	Temp: 23.6	Well Observations:
Finish Time: 1215		



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

PC-118 5 6 20 - FD
 Collected time for same analysis before moving to next well.
 pH: 7.48 EC: 3.76 °C: 23.6

WATER SAMPLING FIELD LOG

	Well: PC-119
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/ 6 /20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

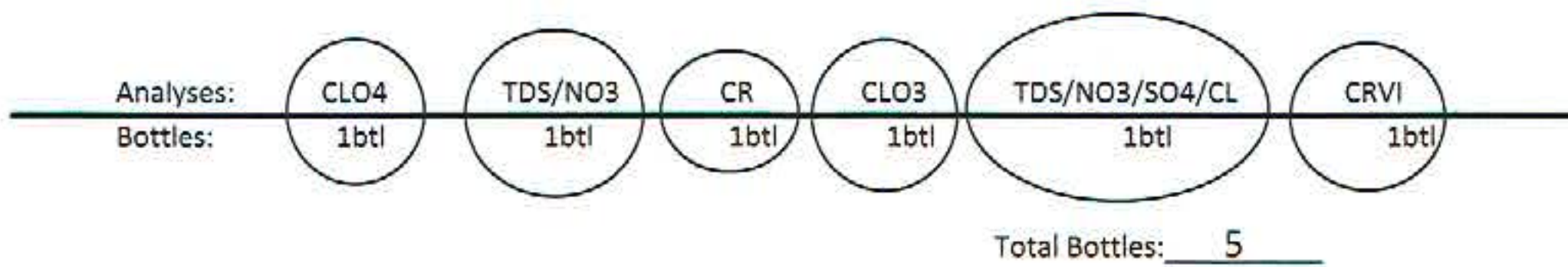
DTW ONLY

Well Depth Information-	Date: 5/ 6 /20	Time: 1125
Total Well Depth(ft): 47.00 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 6.50	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 40.50		

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: 5/ 6 /20	Start Time: 1216		
Sample Time	pH	EC/MC	Temp	Well Observations
1217	7.52 <small>pH</small>	3.02 <small>mS/Cm</small>	22.9 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1220				



DUP EC Reading	QC
3.04 <small>mS/Cm</small>	6.98 <small>pH</small>
22.9 <small>°C</small>	

PC-119 5 6 20 - EB
 Collected for same analysis before moving to next well
 TIME:
 EC **0.05** PH **8.51**
EM EM °C: **31.4**

WATER SAMPLING FIELD LOG

	Well: PC-120
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/6/20
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

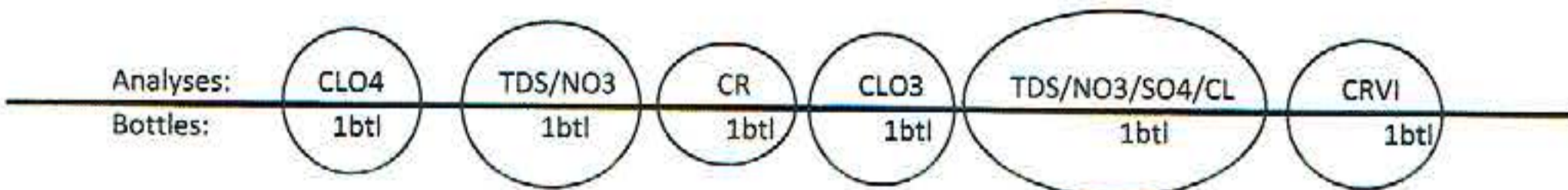
DTW ONLY

Well Depth Information-	Date: 5/6/20	Time: 1131
Total Well Depth(ft):	40.50	
<small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	5.09	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):	35.41	

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: 5/6/20	Start Time: 1221
Sample Time	pH	EC/MC	Temp	Well Observations	
1222	7.48 <small>pH</small>	2.67 <small>mS/Cm</small>	22.4 <small>°C</small>		
Sample Appearance: clear					
Finish Time: 1224					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: PC-121
Sampling Team: Emily McGuire	Date(s): 5/6/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

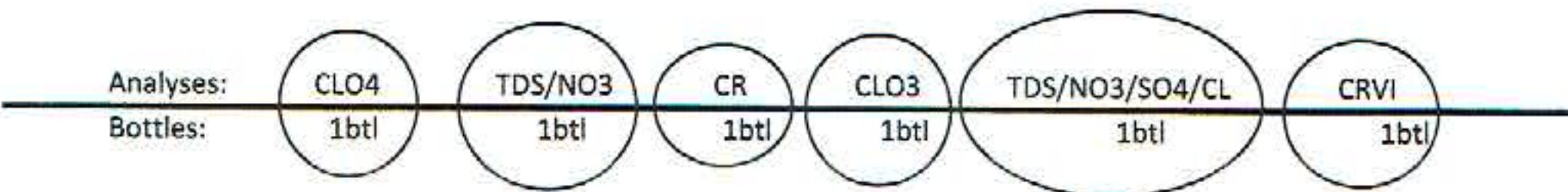
DTW ONLY

Well Depth Information-	Date: 5/6/20	Time: 1135
Total Well Depth(ft): 36.04 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 4.92 <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 31.12		

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: 5/6/20	Start Time: 1224	
Sample Time	pH	EC/MC	Temp	Well Observations
1225	7.52	3.01	22.4	
Sample Appearance: clear				
Finish Time: 1227				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: PC-133
Sampling Team: Emily McGuire	Date(s): 5/ 6 /20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

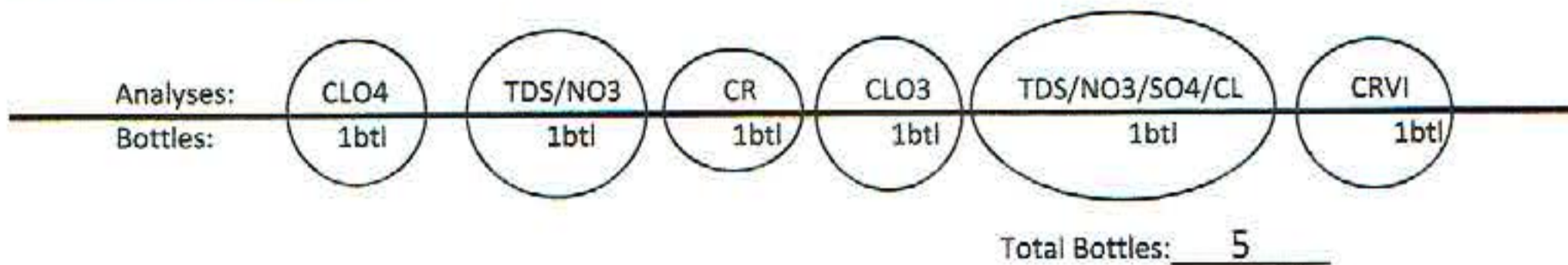
DTW ONLY

Well Depth Information-	Date: 5/ 6 /20	Time: 1039
Total Well Depth(ft): 24.86 <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 20.61 <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 4.25		

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: 5/ 6 /20	Start Time: 1228
Sample Time	pH	EC/MC	Temp	Well Observations	
1229	7.47 <small>pH</small>	2.95 <small>mS/Cm</small>	23.3 <small>°C</small>		
Sample Appearance: clear					
Finish Time: 1231					



DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: PC-150
Sampling Team: Emily McGuire	Date(s): 5/11/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

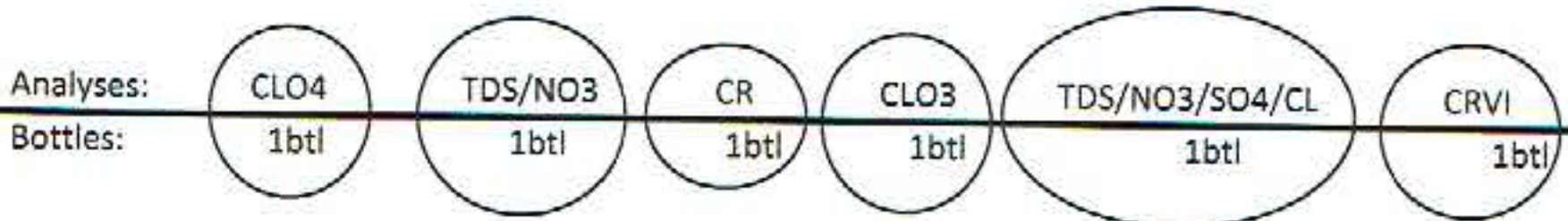
DTW ONLY

Well Depth Information-	Date: 5/11/20	Time: 1052
Total Well Depth(ft): 42.58 <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 38.06		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): 4.52		

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: 5/11/20	Start Time: 1142	
Sample Time	pH	EC/MC	Temp	Well Observations
1143	7.30 <small>pH</small>	6.51 <small>mS/Cm</small>	30.5 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1146				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E1-1
Sampling Team: Emily McGuire	Date(s): 5/5 /20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/5 /20	Time: 1055
Total Well Depth(ft): 46.12	('NM') - No measurement taken, manually measured annually	
Depth to Water(ft): 43.69	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft): 2.43		

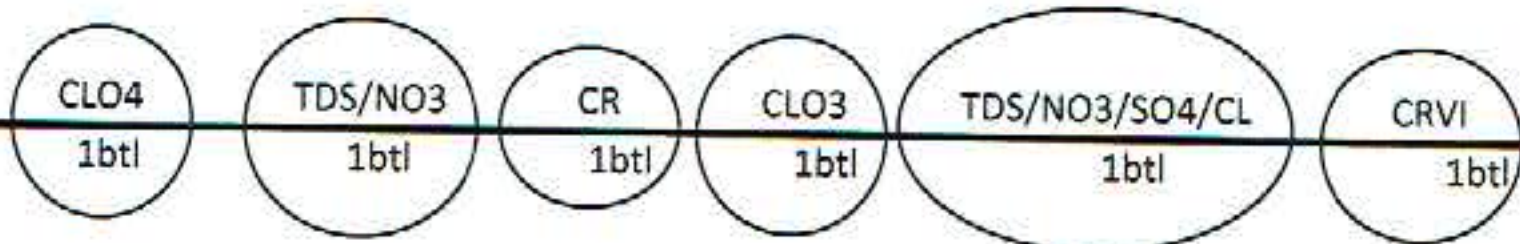
Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.

Field Measurements-		Date: 5/5 /20	Start Time: 1121	
Sample Time	pH	EC/MC	Temp	Well Observations
1122	7.33 <small>pH</small>	4.94 <small>mS/Cm</small>	26.4 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1126				

Analyses:

Bottles:



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E1-2
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

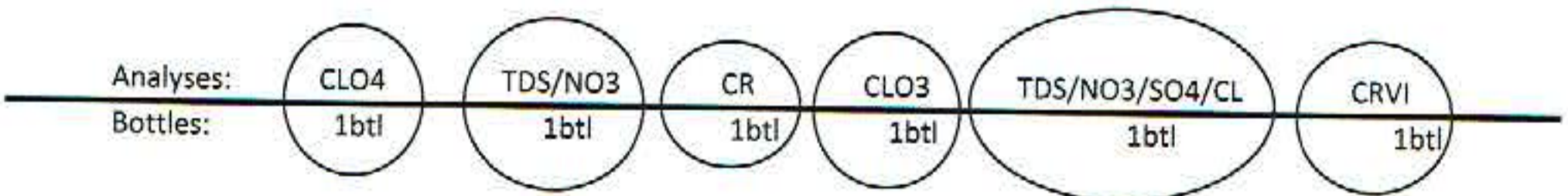
DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1054
Total Well Depth(ft):	47.50	
<small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	44.91	
Height of Water Column(ft): 2.59		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		

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: 5/5/20	Start Time: 1127	
Sample Time	pH	EC/MC	Temp	Well Observations
1128	7.05 <small>pH</small>	6.74 <small>mS/Cm</small>	26.4 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1131				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E1-3
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1053
Total Well Depth(ft):	46.31	
<small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	44.97	
Height of Water Column(ft): 1.34		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		

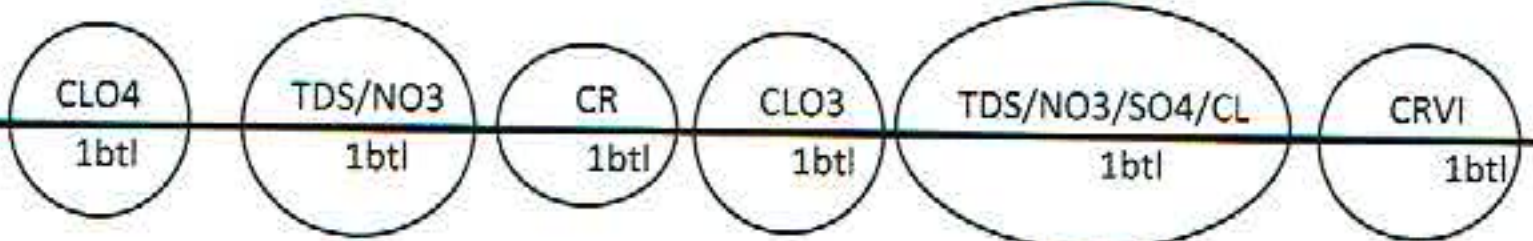
Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.

Field Measurements-		Date: 5/5/20	Start Time: 1132	
Sample Time	pH	EC/MC	Temp	Well Observations
1133	7.20 <small>pH</small>	6.20 <small>mS/Cm</small>	26.5 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1136				

Analyses:

Bottles:



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E2-1
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

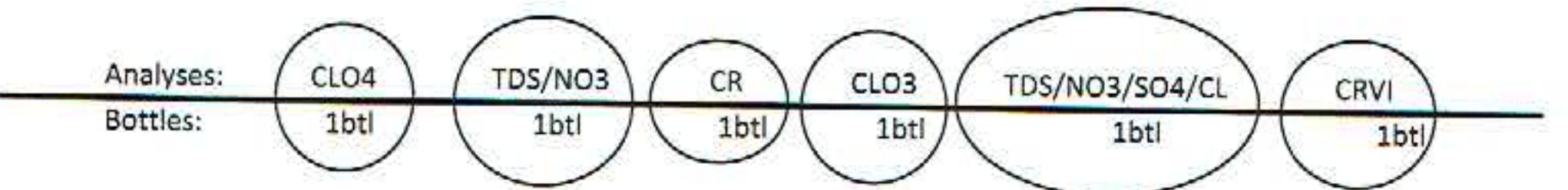
DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1057
Total Well Depth(ft):	51.24	
<small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	39.32	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	11.92	

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: 5/5/20	Start Time: 1148
Sample Time	pH	EC/MC	Temp	Well Observations	
1149	7.26 <small>pH</small>	4.07 <small>mS/Cm</small>	25.6 <small>°C</small>		
Sample Appearance: clear					
Finish Time: 1153					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E2-2
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

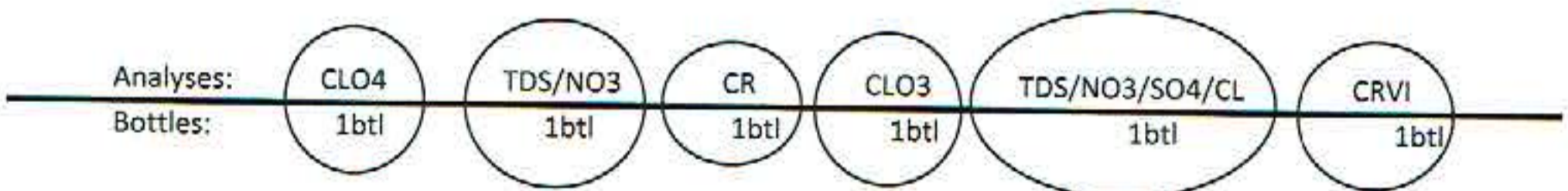
DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1103
Total Well Depth(ft):	51.98	
<small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	36.82	
Height of Water Column(ft): 15.16		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		

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: 5/5/20	Start Time: 1150	
Sample Time	pH	EC/MC	Temp	Well Observations
1151	7.27 <small>pH</small>	4.35 <small>mS/Cm</small>	25.7 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1158				



Total Bottles: 5

DUP EC Reading	QC
4.36 <small>mS/Cm</small>	7.01 <small>pH</small>
25.7 <small>°C</small>	

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E2-3
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

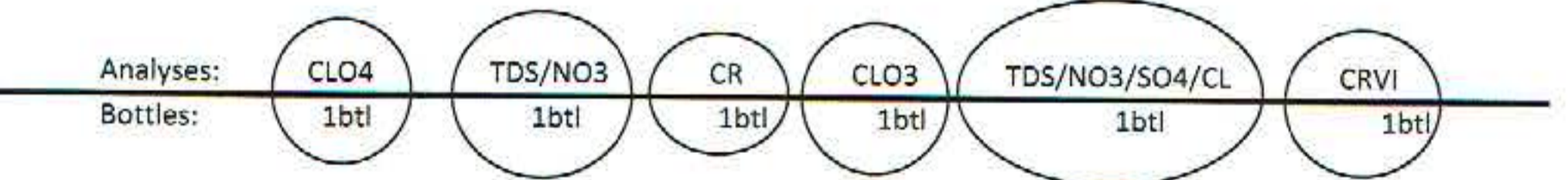
DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1105
Total Well Depth(ft):	49.15	
<small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	33.68	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	15.47	

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: 5/5/20	Start Time: 1159	
Sample Time	pH	EC/MC	Temp	Well Observations
1200	7.32 <small>pH</small>	4.97 <small>mS/Cm</small>	25.7 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1207				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

E2-3 5 5 20-FD
 collected at same time
 for same analysis before
 moving to next well.

pH: 7.31 EC: 4.99 °C: 25.7

WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: E2-4
Sampling Team: Emily McGuire	Date(s): 5/5/20
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: Sunny	

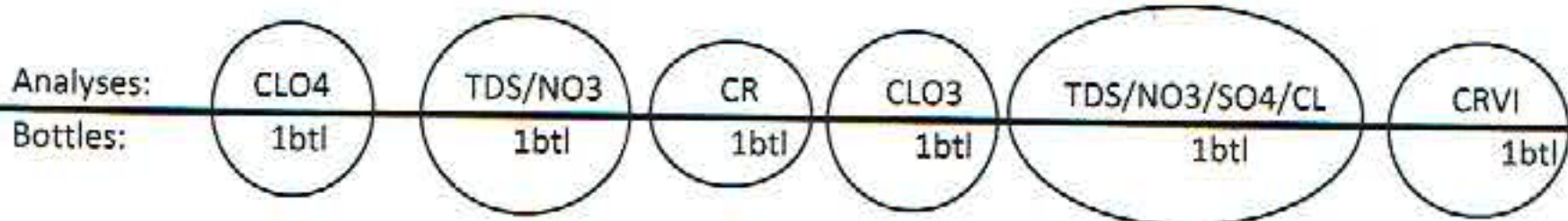
DTW ONLY

Well Depth Information-	Date: 5/5/20	Time: 1115
Total Well Depth(ft):	48.32	
<small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	35.50	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):	12.82	

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: 5/5/20	Start Time: 1208	
Sample Time	pH	EC/MC	Temp	Well Observations
1209	7.31 <small>pH</small>	5.77 <small>mS/Cm</small>	26.5 <small>°C</small>	
Sample Appearance: clear				
Finish Time: 1215				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

E2-4 5 5 20-EB
 Collected for same analysis before moving to next well.

Time:

pH: 7.83 EC: 0.08 °C: 23.2

WATER SAMPLING FIELD LOG

	Well: E2-5
Project/Site: NERT Project - Henderson Nevada	Date(s): 5/5 /20
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: Sunny	

DTW ONLY

Well Depth Information-	Date: 5/5 /20	Time: 1116
Total Well Depth(ft):	52.61	
('NM') - No measurement taken, manually measured annually)		
Depth to Water(ft):	34.78	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):	17.83	

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: 5/5 /20	Start Time: 1216		
Sample Time	pH	EC/MC	Temp	Well Observations
1217	7.00 <small>pH</small>	5.95 <small>mS/Cm</small>	27.3 <small>°C</small>	
Sample Appearance:	Clear			
Finish Time:	1220			

Analyses:

Bottles:

CLO4

1btl

TDS/NO3

1btl

CR

1btl

CLO3

1btl

TDS/NO3/SO4/CL

1btl

CRVI

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

DAILY SAMPLING RIG INSPECTION SHEET

Date: 5/5/20

Completed By: Emily McGuire

Pre Sampling Safety Meeting-		Time: <u>1006</u>
Wells to be sampled today: <u>APS - NERT Flushing</u>		
Dangers and hazards with wells to be sampled:		
Name: <u>Emily McGuire</u>	Signature: <u>E. McGuire</u>	
Name:	Signature:	

Sampling Equipment Inspection-		Time:
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Coolers		
<input checked="" type="checkbox"/> Forms		
<input checked="" type="checkbox"/> pH probe (calibrated)		
<input checked="" type="checkbox"/> DTW meter		
<input checked="" type="checkbox"/> Vault Keys	<u>Didn't need</u>	
<input checked="" type="checkbox"/> Water		
<input checked="" type="checkbox"/> PPE		

Vehicle Inspection-		Time:
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Tires and Lug Nuts		
<input checked="" type="checkbox"/> Steering Wheel		
<input checked="" type="checkbox"/> Lights		
<input checked="" type="checkbox"/> Horn		
<input checked="" type="checkbox"/> Radiator Fluid		
<input checked="" type="checkbox"/> Engine Oil		
<input checked="" type="checkbox"/> Parking Brake		
<input checked="" type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input checked="" type="checkbox"/> Oil Light		
<input checked="" type="checkbox"/> Battery Light		



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 5/5/20

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	1035/EM
Temp Comp Value	25.0	
Calibration Value	1290	
Standard Temp	24.9	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	1029/EM
Calibration Value	7.01	8.04	
Buffer Temp	25.4	25.8	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
E2-2	4.35	25.7	4.36	25.7

QC's
7.01
Closing QC
7.02

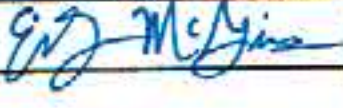
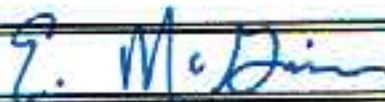
G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: *E. McDim*



ETI Daily Sampling Log Sheet

Date: 5/5/20		Well Field(s): AP5		Start Time: 1006	Finish Time: 1239
Time In	Time Out	Name	Signature	Company/Purpose	
1006	1239	Emily McGuire		ETI | Sampling	
Time	Observation				
1040	Found Plot Z offline for faulty leak alarm fixed and wells back online.				
1045	Completed DTWs / totalizer forms				
1120	Sampled Plot 1 / Plot 2				
Completed By: 					

DAILY SAMPLING RIG INSPECTION SHEET

Date: 5/6/20

Completed By: E. McGuire

Pre Sampling Safety Meeting-

Time: 0919

Wells to be sampled today: PC wells

Dangers and hazards with wells to be sampled: enclosed space

Name: Emily McGuire

Signature: E. McGuire

Name: John Sapp

Signature: John Sapp

Sampling Equipment Inspection-

Time: 0950

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Coofers		
<input checked="" type="checkbox"/> Forms		
<input checked="" type="checkbox"/> pH probe (calibrated)		
<input checked="" type="checkbox"/> DTW meter		
<input checked="" type="checkbox"/> Vault Keys		
<input checked="" type="checkbox"/> Water		
<input checked="" type="checkbox"/> PPE		

Vehicle Inspection-

Time: 0930

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Tires and Lug Nuts		
<input checked="" type="checkbox"/> Steering Wheel		
<input checked="" type="checkbox"/> Lights		
<input checked="" type="checkbox"/> Horn		
<input checked="" type="checkbox"/> Radiator Fluid		
<input checked="" type="checkbox"/> Engine Oil		
<input checked="" type="checkbox"/> Parking Brake		
<input checked="" type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input checked="" type="checkbox"/> Oil Light		
<input checked="" type="checkbox"/> Battery Light		



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 5/6/20

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0927/EM
Temp Comp Value	25.0	
Calibration Value	1291	
Standard Temp	24.7	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	0924/EM
Calibration Value	7.01	8.02	
Buffer Temp	25.0	25.1	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
PC-119	3.02	22.9	3.04	22.9

QC's
6.98
7.01
Closing QC

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: ~~7053~~ ^{EM} H198130

Verified By: E. McGin



ETI Daily Sampling Log Sheet

Date: <u>5/6/20</u>		Well Field(s): <u>PC wells</u>		Start Time: <u>0919</u>	Finish Time: <u>1310</u>
Time In	Time Out	Name	Signature	Company/Purpose	
<u>0919</u>	<u>1310</u>	<u>Emily McGuire</u>	<u>E. McGuire</u>	<u>ETI / sampling</u>	
<u>0919</u>	<u>1310</u>	<u>John Sapp</u>	<u>John Sapp</u>	<u>ETI / sampling</u>	
Time	Observation				
<u>1000</u>	<u>Left for well field</u>				
<u>1310</u>	<u>Completed sampling</u>				
Completed By:			<u>E. McGuire</u>		

DAILY SAMPLING RIG INSPECTION SHEET

Date: 5/11/20

Completed By: Emily McGuire

Pre Sampling Safety Meeting-

Time: 0900

Wells to be sampled today: ART wells

Dangers and hazards with wells to be sampled: vaults

Name: E. McGuire

Signature: E. McGuire

Name: T. McDaniel

Signature: T. McDaniel

Sampling Equipment Inspection-

Time: 0945

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Coolers		
<input checked="" type="checkbox"/> Forms		
<input checked="" type="checkbox"/> pH probe (calibrated)		
<input checked="" type="checkbox"/> DTW meter		
<input checked="" type="checkbox"/> Vault Keys		
<input checked="" type="checkbox"/> Water		
<input checked="" type="checkbox"/> PPE		

Vehicle Inspection-

Time: 0945

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Tires and Lug Nuts		
<input checked="" type="checkbox"/> Steering Wheel		
<input checked="" type="checkbox"/> Lights		
<input checked="" type="checkbox"/> Horn		
<input checked="" type="checkbox"/> Radiator Fluid		
<input checked="" type="checkbox"/> Engine Oil		
<input checked="" type="checkbox"/> Parking Brake		
<input checked="" type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input checked="" type="checkbox"/> Oil Light		
<input checked="" type="checkbox"/> Battery Light		



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 5/11/20

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0942/EM
Temp Comp Value	25.0	
Calibration Value	1290	
Standard Temp	24.7	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	0940/EM
Calibration Value	7.01	8.00	
Buffer Temp	25.0	25.4	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
8A	12.45	26.5	12.47	26.4

QC's
6.98
Closing QC
7.01

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. McDi



ETI Daily Sampling Log Sheet

Date: **5/11/20** Well Field(s): **ART** Start Time: **0900** Finish Time: **1220**

Time In	Time Out	Name	Signature	Company/Purpose
0900	1220	E. McGuire	<i>E. McGuire</i>	ETI / Sampling
0900	1100	T McDaniel	<i>T McDaniel</i>	ETI / Sampling

Time	Observation
0900	Meeting / Prep
0955	Left for wells
1010	Completed DTW's and total depths
1100	Completed sampling
1220	Sampling completed

Completed By: *E. McGuire*

DAILY SAMPLING RIG INSPECTION SHEET

Date: 5/13/20 Completed By: E. McGuire

Pre Sampling Safety Meeting-	Time: <u>0925</u>
Wells to be sampled today: <u>IWF</u>	
Dangers and hazards with wells to be sampled: <u>none</u>	
Name: <u>Emily McGuire</u>	Signature: <u>E. McGuire</u>
Name: <u>John Saep</u>	Signature: <u>John Saep</u>

Sampling Equipment Inspection-		Time: <u>0931</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Coolers		
<input checked="" type="checkbox"/> Forms		
<input checked="" type="checkbox"/> pH probe (calibrated)		
<input checked="" type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input checked="" type="checkbox"/> Water		
<input checked="" type="checkbox"/> PPE		

Vehicle Inspection-		Time: <u>0931</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Tires and Lug Nuts		
<input checked="" type="checkbox"/> Steering Wheel		
<input checked="" type="checkbox"/> Lights		
<input checked="" type="checkbox"/> Horn		
<input checked="" type="checkbox"/> Radiator Fluid		
<input checked="" type="checkbox"/> Engine Oil		
<input checked="" type="checkbox"/> Parking Brake		
<input checked="" type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input checked="" type="checkbox"/> Oil Light		
<input checked="" type="checkbox"/> Battery Light		



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 5/13/20

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0930 EM
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	24.7	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	0928 EM
Calibration Value	7.01	8.05	
Buffer Temp	25.1	26.0	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
I-I	7.67	26.4	7.66	26.4
I-U	11.15	30.0	11.24	30.2

QC's
6.97
6.99
Closing QC
7.01

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. McGin



ETI Daily Sampling Log Sheet

Date: **9/13/20** Well Field(s): **1WF** Start Time: **0925** Finish Time:

Time In	Time Out	Name	Signature	Company/Purpose
0925	1320	E. McGuire	E. McGuire	ETI / Sampling
0925	1320	John Sapp	John Sapp	ETI / Sampling

Time	Observation
0945	Began on site DTW/TWD
1020	Went to Borman for DTW.
1200	Left Borman to grab a wash sample
1320	Completed sampling

Completed By: **E. McGuire**

DAILY SAMPLING RIG INSPECTION SHEET

Date: 5/14/20

Completed By: E. McGuire

Pre Sampling Safety Meeting-

Time: 0942

Wells to be sampled today: IWF

Dangers and hazards with wells to be sampled:

Name: E. McGuire

Signature: E. McGuire

Name:

Signature:

Sampling Equipment Inspection-

Time: 0950

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Coolers		
<input checked="" type="checkbox"/> Forms		
<input checked="" type="checkbox"/> pH probe (calibrated)		
<input checked="" type="checkbox"/> DTW meter		
<input checked="" type="checkbox"/> Vault Keys	<u>dont need</u>	
<input checked="" type="checkbox"/> Water		
<input checked="" type="checkbox"/> PPE		

Vehicle Inspection-

Time: 1005

Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Tires and Lug Nuts		
<input checked="" type="checkbox"/> Steering Wheel		
<input checked="" type="checkbox"/> Lights		
<input checked="" type="checkbox"/> Horn		
<input checked="" type="checkbox"/> Radiator Fluid		
<input checked="" type="checkbox"/> Engine Oil		
<input checked="" type="checkbox"/> Parking Brake		
<input checked="" type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input checked="" type="checkbox"/> Oil Light		
<input checked="" type="checkbox"/> Battery Light		



DAILY MAINTENANCE AND CALIBRATION LOG

Date: 5/14/20

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	1001/EM
Temp Comp Value	25.0	
Calibration Value	1293	
Standard Temp	24.4	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.0	8.0	0959/EM
Calibration Value	7.01	8.04	
Buffer Temp	7.21	25.9	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
I-L	6.47	27.6	6.48	27.6
I-C	7.75	26.9	7.77	26.8

QC's
6.99
6.97
Closing QC
7.03

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. McGinn

ETI Daily Sampling Log Sheet

Date: 5/14/20		Well Field(s): IWF		Start Time: 0942	Finish Time:
Time In	Time Out	Name	Signature	Company/Purpose	
0942	1300	Emily McGuire	E. McGuire	ETI / Sampling	
Time	Observation				
1029	Started west IWF field DTW/TWD				
1059	Turned on IAB				
1300	finished sampling				
Completed By:					

TECHNICAL MEMORANDUM

To: Chris Ritchie and Chris Stubbs, Ramboll

Cc: Steve Clough, Nevada Environmental Response Trust
Matthew Edelstein, Craig Knox, Emeryville Lab Data, Ramboll
David Bohmann, Tetra Tech

From: Jesse Bunkers and James Roman

Date: June 19, 2020

Subject: **May 2020 Monthly Las Vegas Wash Surface Water Sampling
Nevada Environmental Response Trust Site
Henderson, NV**

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 May 2020 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The ten sample locations described in the *Surface Water Sampling and Analysis Plan, Revision 3 (SAP), Las Vegas Wash* (Tetra Tech, October 2018) 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 May 1, 2020. For samples from the Wash, each location was accessed either 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. For samples from the C-1 Channel, the channel width, depth of water, and flow were measured and documented in the surface water sampling logs. The diameters of the C-1 Channel #1-W and #1-E were measured to be 2 feet.

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

Deviations from the Wash surface water sampling program encountered during the May 2020 sampling event include:

- Field personnel were not able to sample the designated location for LVW6.6-3 due to the presence of a sandbar at the sample location. The sandbar extended above the water surface; therefore, no surface water was present at the sample location. The sample was collected as close as possible to the original

sample location. The sample location was recorded with a handheld GPS and the sample was collected at the coordinates 36.089462° N, 114.993152° W.

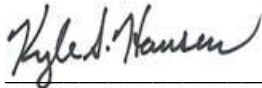
- There was no flow at location C-12 Channel #2; accordingly, a sample was not collected.

Surface water sampling logs are provided in Attachment A. Field investigation daily logs and calibration logs are included in Attachments B and 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 May 2020 monthly Las Vegas Wash surface water sampling summary.



6/19/2020

Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2020