Attachment A – Pore Water Sampling Worksheet

Date: 12/9/20

Location ID: WWW-PW-1(A)

Weather Conditions: Sunny, 46°

Sampler's Name: TAZ

Water Depth ~~(ft)~~: 3'11

Sampler Screen ~~Interval (ft) (below water surface)~~ top 3'

Sediment Thickness ~~(ft)~~ (est): 25'

Sample Depth (ft below ground surface of the river bottom): 3-3.13

Start time 15:53

Sample Time 16:15

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
15:45				3.7		654		11.47		4.2		6.9		2.79	
15:55					5.1		837		0.49		-13.6		7.5		10,8
16:00					5.0		841		.43		-24.2		7.47		5.50
16:05					4.9		842		.41		-28.9		7.56		19.3
16:10					4.8		842		.41		-27.2		7.54		13.7

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/20

Location ID: WWW-PW-1(B)

Weather Conditions: Sunny, 46°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 5'

Sampler Screen ~~Interval (ft)~~ ~~(below water surface)~~ top 4'

Sediment Thickness ~~(ft)~~ (est): 2.5'

Sample Depth (ft below ground surface of the river bottom): 4-4.13

Start time 16:35

Sample Time 16:55

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
16:30	–	–		3.7		654		11.47		4.2		6.9		2.79	
16:35	–	–			4.5		849		.42		-31		7.52		32.3
16:40					4.5		622		.40		-33		7.49		17.5
16:45					4.5		560		.11		-38.2		7.52		9.5
16:50					4.5		450.1		.08		-39.6		7.47		10.8

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/2020

Location ID: WVNW - PW - 2(A)

Weather Conditions: Sunny, 45°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 4''

Sampler Screen ~~Interval (ft) (below water surface)~~: top ~~2.3'~~ 2.33'

Sediment Thickness ~~(ft)~~ (est): Sediment / Clay - 2'

Sample Depth (ft below ground surface of the river bottom): 2.33-2.46

Start time 14:20

Sample Time 14:40

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
14:10	—	-		3.6		654		11.17		-9.8		8.51		6.06	
14:20	—	—	100ml		5.8		597		.80		-29.3		6.93		6.85
14:25	—	-	100 ml		5.7		599		.23		-21.4		6.89		3.44
14:30	—	—	100 ml		5.8		608		.10		-25.4		6.87		2.47
14:35	—	-	100 ml		5.9		613		.19		-28.2		6.87		2.53

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/20

Location ID: WWW-PW-2(B)

Weather Conditions: Sunny, 46°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 4''

Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~3.3'~~ 3.33'

Sediment Thickness ~~(ft)~~ (est): Sediment/clay - 2'

Sample Depth (ft below ground surface of the river bottom): 3.33-3.46

Start time 15:00

Sample Time 15:20

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
~~14:50~~ ~~Time~~	—	—		3.6		654		11.18		-9.7		8.51		6.06	
15:00	—	—	100 ml		5.5		631		.22		-15.7		6.94		9.34
15:05	—	—	100 ml		5.6		631		.10		-20.9		6.89		~~9.23~~ 2.94
15:10	—	—	100 ml		5.6		631		.11		-23		6.89		1.95
15:15	—	—	100 ml		5.6		631		.09		-25.4		6.87		1.37

Attachment A – Pore Water Sampling Worksheet

★ MS/MSD taken

Date: 12/2/20

Location ID: WWW-PW-3 (A)

Weather Conditions: Sunny, 45°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 12"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 18"

Sediment Thickness ~~(ft)~~ (est): 16"

Sample Depth (ft below ground surface of the river bottom): 1.5-1.63

Start time 1425

Sample Time 1440

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
14:20	–	–		2.6		C23		12.95		171.7		7.8		9	
1425			150		7.2		554		1.4		171		7.7		26
1430			150		7.3		557		1.2		157		7.6		5
1435			150		7.4		557		1.1		143		7.6		7
1440			150		7.4		557		1.1		133		7.5		1

☆ DUP taken "WVNW-PW-4(A)-DUP"

Attachment A – Pore Water Sampling Worksheet

Date: 12/2/20

Location ID: WVNW-PW-4(A)

Weather Conditions: mid 40's, sunny

Sampler's Name: JAL / MKM

Water Depth ~~(ft)~~: 12"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 20"

Sediment Thickness ~~(ft)~~ (est): 19"

Sample Depth (ft below ground surface of the river bottom): 1.67-1.79

Start time 1140

Sample Time 1200

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1135				2.1		498		26.3		137		9.6		5	
1145			150		6.2		604		5.2		167		8.4		2616
1150			150		6.8		706		1.4		43		7.9		279
1155			150		6.8		716		1.3		-24		7.5		78
1200			150		6.9		716		1.2		-41		7.5		16

Pore Water Sampling Procedure **SOP A27**

DUP

Attachment A – Pore Water Sampling Worksheet

Date: 7/20/22 **Location ID:** WYNW-PW-5(A)

Weather Conditions: mostly sunny, humid, 80° **Sampler's Name:** M. Myers

Water Depth ~~(ft)~~: 3" **Sampler Screen ~~Interval (ft) (below water surface)~~ top:** 12"

Sediment Thickness ~~(ft)~~ (est): 0 (gravel)

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1045 **Sample Time** 1100

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1040	—	—	—	22.4		618		7.36		202		8.0		3.2	
1045	—	—	600		17.1		780		2.45		206		7.27		1.1
1050	—	—	↓		16.9		790		1.82		192		7.21		2.1
1055	—	—			16.9		794		1.72		184		7.21		1.1
1100	—	—			16.8		800		1.48		175		7.20		1.1

MS/MSD

Attachment A – Pore Water Sampling Worksheet

Date: 7/20/22

Location ID: WNW-PW-(A)

Weather Conditions: Mostly sunny, 80's, humid

Sampler's Name: M. Myers

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below~~ top ~~sed water surface)~~ 12"

Sediment Thickness ~~(ft)~~ (est): 1"

Sample Depth
(ft below ground surface of the river bottom): 1-1.13

Start time 1350

Sample Time 1405

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1345	—	—	—	23.7		618		7.55		174		8.14		1.9	
1355	—	—			18.5		461		2.5		174		7.37		8.6
1400	—	—			18.5		459		2.5		169		7.33		4.5
1405	—	—			18.6		453		2.5		157		7.31		45

Attachment A – Pore Water Sampling Worksheet

Location ID: ~~[illegible]~~ WVNW-PW-6(B)

Date: 7/20/22

Weather Conditions: Mostly sunny, 80's, humid

Sampler's Name: M. Myers

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below sed/water surface)~~: ~~20"~~ top 20.4"

Sediment Thickness ~~(ft)~~ (est): 1"

Sample Depth (ft below ground surface of the river bottom): 1.7-1.83

Start time 1420

Sample Time 1435

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1415	—	—	—	23.8		619		7.46		152		8.12		2.1	
1425	—	—			17.2		426		4.5		144		7.41		13.8
1430	—	—			17.2		427		4.5		125		7.36		9.6
1435	—	—													

Attachment A – Pore Water Sampling Worksheet

Date: 7/20/22

Location ID: WVNW-PW-7A)

Weather Conditions: Mostly sunny, 85°F, humid

Sampler's Name: MMyers

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ ~~5d~~ ~~16"~~ top 15.6"

Sediment Thickness ~~(ft)~~ (est): 4"

Sample Depth (ft below ground surface of the river bottom): 1.3-1.43

Start time ~~0800~~ 1513

Sample Time 1525

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1510	—	—	—	24.1		619		7.96		185		8.16		2.2	
1515	—				20.1		419		0.60		58		7.61		5.6
1520	—				20.3		418		0.5		-14		7.5		3.5
1525	—				20.2		419		<.5		-35		7.5		<5

Attachment A – Pore Water Sampling Worksheet

Date: 11/30/20

Location ID: Area19 - PW-1 (A)

Weather Conditions: Overcast, 34°

Sampler's Name: MKM

Water Depth ~~(ft)~~: 12"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 0 12"

Sediment Thickness ~~(ft)~~ (est): 12"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1020

Sample Time 1035

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
10:20	12"	—	—	4.2		596.0		13.13		256.1		8.57		4	
1025		—	300		6		582		1.4		256		7.9		4
1030		—	300		6		582		1.3		198		7.8		2
1035		—	300		6		582		1.3		130		7.6		1

Attachment A – Pore Water Sampling Worksheet

Date: 11/30/20

Location ID: Area19- PW-2(A)

Weather Conditions: Overcast

Sampler's Name: MKM

Water Depth ~~(ft)~~: 9"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): No sediment

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1335

Sample Time 1355

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1335	9"	—	—	4.2		548		27.1		250		7.9		3	
1340			150	~~6.0~~	6.0		1289		4.9		200		7.5		30
1345			150		6.0		1292		2.6		186		7.4		46
1350			150		6.0		1289		2.1		107		7.3		29
1355			150		6.0		1286		1.7		43		7.4		65

Attachment A – Pore Water Sampling Worksheet

Date: 11/30

Location ID: Area19-PW-2(B)

Weather Conditions: Cloudy, Low 30's

Sampler's Name: TAL/MKM

Water Depth ~~(ft)~~: 9"

Sampler Screen ~~interval (ft) (below water surface)~~ top: 17"

Sediment Thickness ~~(ft)~~ (est): none

Sample Depth (ft below ground surface of the river bottom): 1.42-1.54

Start time: 1415

Sample Time: 1430

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1410	9"			4.2		599.0		13.7		-70		7.6		16	
1415			150		6.4		1212		1.4		-28		7.4		6
1420			150		6.5		1212		1.0		<50		7.2		8
1425			150		6.8		1230		1.0		-68		7.1		10
1430			150		6.7		1237		1.1		-74		7.1		7

Attachment A – Pore Water Sampling Worksheet

Date: 11/30/20 **Location ID:** ~~Area19-~~PW-3(A)

Weather Conditions: Overcast, 34° **Sampler's Name:** JAL

Water Depth ~~(ft)~~: 3" **Sampler Screen Interval ~~(ft) (below water surface)~~** top 12"

Sediment Thickness ~~(ft)~~ (est): none Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1520 **Sample Time** 1535

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1515	3"	—	—	4.4		600		13.3		-61	[illegible]	7.5		4	
1520			150		6.9		760		8.2		-15		7.4		14
1525			150		6.60		762		6.1		-5.4		7.4		20
1530			150		7.0		737		5.5		9.4		7.4		12
1535			150		6.7		737		5.3		23.1		7.9		10

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/20

Location ID: Area 19 - PW-4(A)

Weather Conditions: Partly Sunny, 30°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 9"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): 2"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1035

Sample Time 1050

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
10:25	9"	—	—	3.2		523.9		19.38		121.9		9.43		3	
1035		—	150		5.7		946		1.9		122		8.3		296
1040		—	150		5.8		962		1.2		107		8.0		114
1045		—	150		6.0		952		1.2		96.0		7.8		78
1050		—	150		5.7		941		1.2		84		7.7		70

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/20 Location ID: Araln-PW-4(B)

Weather Conditions: Sunny, 30° Sampler's Name: TAL

Water Depth ~~(ft)~~: 9" Sampler Screen ~~Interval (ft) (below water surface)~~ top 17"

Sediment Thickness ~~(ft)~~ (est): 2" Sample Depth (ft below ground surface of the river bottom): 1.42-1.54

Start time 1120 Sample Time 1135

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
11:15				3.2		534		11.8		79		7.9		17	
1120			150		5.2		931		1.4		94		7.7		192
1125			150		5.3		921		1.2		90		7.7		71
1130			150		5.3		906		1.3		89		7.7		56
1135			150		5.4		890		1.4		89		7.6		70

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/2020

Location ID: Area19-PW-5(A)

Weather Conditions: Sunny 34°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): 4"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1205

Sample Time 1220

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
12:00				3.3		522.8		12.32		147.6		7.95		24	
1205			150		6.3		528		1.3		144		7.8		74
1210			150		6.5		534		0.8		6.2		7.7		20
1215			150		6.7		533		0.7		-42		7.6		9
1220			150		6.7		533		0.8		-58		7.5		5
~~1225~~			"												

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/20 **Location ID:** Trail9-PW-6(A)

Weather Conditions: Sunny, 38° **Sampler's Name:** TAL

Water Depth ~~(ft)~~: ~~8"~~ 12" **Sampler Screen ~~Interval (ft) (below water surface)~~** top ~~12"~~ 18"

Sediment Thickness ~~(ft)~~ (est): ~~3"~~ 3"

Sample Depth (ft below ground surface of the river bottom): 1.5-1.63

Start time 1500 **Sample Time** 1515

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
14:55				3.7		520.2		12.8		195.2		8.13		2	
1500				~~3.4~~	6.4		562		1.2		179		7.9		478
1505					6.9		562		1.0		34		7.8		40
1510					6.9		562		1.0		-27		7.7		32
1515					6.9		561		1.0		-48		7.6		17

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/20

Location ID: Area19-PW-6(B)

Weather Conditions: Sunny, 39°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 12"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 24"

Sediment Thickness ~~(ft)~~ (est): 3"

Sample Depth (ft below ground surface of the river bottom): 2-2.13

Start time 15:35

Sample Time 15:50

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
15:30	–	–		3.7		518.7		12.4		-11.1		7.96		8	
15:35	–	–		6.8	6.6		559.7	1.20	1.11		8.1		7.79		55
15:40	–	–			6.9		561.5		.75		-38.6		7.70		26
15:45	–	–			6.9		561.9		.78		-48.9		7.63		14
15:50	–	–			6.8		561.8		.78		-55.4		7.57		9

Attachment A – Pore Water Sampling Worksheet

Date: 12/1/20

Location ID: Area 9- PW-7 (A)

Weather Conditions: Sunny 38°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 2"

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 5'

Sediment Thickness/Muck ~~(ft)~~ (est): 4.5'

Sample Depth (ft below ground surface of the river bottom): 5-5.13

Start time 1625

Sample Time 1640

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1620				3.6		519.6		12.19		48.8		7.81		10	
1625				~~8.3~~	8.3		644		1.24		82		7.6		49
1630					7.9		697		0.7		59		7.4		28
1635					8.0		698		0.7		40		7.6		12
1640					8.0		699		0.7		30		7.5		

Attachment A – Pore Water Sampling Worksheet

Date: 7/19/22

Location ID: Area19-PW-8A

Weather Conditions: sunny, humid, 85°

Sampler's Name: M. Myers

Water Depth ~~(ft)~~: 18"

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 12 ~~12.5~~"

Sediment Thickness ~~(ft)~~ (est): 12"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time: 1020

Sample Time: 1105

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
955	—	—	—	20.7		609		9.11		228		8.03		2.2	
1025	—	—	—		20.3		627		5.81		223		7.31		25.5
1030	—	—	—		20.4		624		5.20		223		7.23		22.2
1035	—	—	—		20.6		627		4.91		222		7.20		9.1
1040	—	—	—		20.8		627		4.86		220		7.20		4.5
1045 (moved flow-thru cell into shade)	—	—	—		21.2		630		4.92		214		7.20		2.7
1050	—	—	—		19.8		628		4.69		208		7.18		<5
1055	—	—	—		20.3		624		4.50		196		7.19		<5
1100	—	—	—		20.7		625		4.49		196		7.19		<5
1105	—	—	150		20.9		629		4.52		197		7.19		<5

Revision 02
Publication Date 09/15/2020
Review Date 05/13/2022

Attachment A – Pore Water Sampling Worksheet

Date: 7/19/22

Location ID: Area 19 - PW - 9A

Weather Conditions: mostly sunny, humid, 86°

Sampler's Name: M. Myers

Water Depth (~~ft~~): ~~9"~~ 3"

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 12" - ~~12.5"~~

Sediment Thickness ~~(ft) (est)~~: ~~32"~~

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1345

Sample Time 1420

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1320	—	—	—	22.5		609		10.66		209		8.2		2.5	
1350	—	—			18.7		886		<1.5		-83		7.11		2.2
1355	—	—			18.8		881		<1.5		-99		7.05		2.5
1400	—	—			18.6		868		<1.5		-111		7.04		<1
1405	—	—			18.6		862		<1.5		-118		7.03		<1
1410	—	—			18.5		854		<1.5		-125		7.03		<1
1415	—	—			18.4		852		<1.5		-129		7.03		<1
1420	—	—	250		18.5		847		<1.5		-133		7.03		<1

Attachment A – Pore Water Sampling Worksheet

Date: 7/19/22

Location ID: Area 19-PW-9B

Weather Conditions: mostly sunny, 86°, humid

Sampler's Name: M. Myers

Water Depth (ft): 3"

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 18"

Sediment Thickness (ft) (est): 2"

Sample Depth (ft below ground surface of the river bottom): 1.5-1.63

Start time 1440

Sample Time 1505

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1435	—	—		23.2		612		10.88		-38		8.3		2.5	
1445	—	—			17.7		843		<.5		-106		7.07		6.0
1450	—	—			18.3		852		<.5		-108		7.05		3.2
1455	—	—			18.1		863		<.5		-109		7.03		5.3
1500	—	—			18.1		866		<.5		-110		7.03		5.7
1505	—	—			18.3		865		<.5		-111		7.02		5.8

PW = 24 5/8 | 24'
RW = 22 3/4 | ~~24~~ 24 1/16'

Pore Water Sampling Procedure **SOP A27**

Attachment A – Pore Water Sampling Worksheet

Date: 7/19/22 **Location ID:** Area 19 - PW-10A

Weather Conditions: mostly sunny, 85°, humid **Sampler's Name:** M. Myers / J. Thompson

Water Depth (ft): 3" **Sampler Screen ~~Interval (ft) (below water surface)~~ top** 12" ~~12.5"~~

Sediment Thickness (ft) (est): 0 (sand)

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1605 **Sample Time** 1640

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1600				23.7		~~417~~ 617		11.7		124.7		8.37		2.8	
1620 ~~1615~~				~~20.1~~	20.4		621		<~~0.5~~		-76.4		7.40		~~79~~ <1
1630					20.4		619		<~~0.5~~		-78.9		7.39		<~~1~~
1635					20.4		618		<0.5		-79.4		7.39		–
1640					20.4		617		<0.5		-79.2		7.39		–

Attachment A – Pore Water Sampling Worksheet

Date: 12/7/20

Location ID: WV/CH-PW-1(A)

Weather Conditions: Cloudy, 29°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 3"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 9"

Sediment Thickness ~~(ft)~~ (est): 0"

Sample Depth (ft below ground surface of the river bottom): 0.75-0.88

Start time 10:45

Sample Time 1100

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1040	-	-	-	2.8		892		12.0		147		8.4		2.9	
1045					4.3		1104		0.9		-58		7.4		3.6
1050					4.8		1101		1.1		-77		7.4		2.5
1055					4.7		1100		0.8		-90		7.4		2.8
1100					4.6		1102		0.8		-95		7.4		3.0

Attachment A – Pore Water Sampling Worksheet

Date: 12/7/20

Location ID: WV/CH-PW-2(A)

Weather Conditions: Cloudy 31°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 5"

Sampler Screen ~~Interval (ft)~~ ~~(below water surface)~~ top 9"

Sediment Thickness ~~(ft)~~ (est): 2"

Sample Depth (ft below ground surface of the river bottom): 0.75-0.88

Start time 1140

Sample Time 1155

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1135	–	–		2.8		604		11.82		113.4		8.45		3.76	
1140	–	–	150		5.4		788		0.3		-42		7.4		1.4
1145	–	–	150		5.2		790		0.2		-60		7.5		0.2
1150	–	–	150		5.2		790		0.1		-65		7.4		0.3
1155	–	–	150		4.8		790		0.1		-69		7.4		3.0

Attachment A – Pore Water Sampling Worksheet

Date: 12/7/20

Location ID: WV/CH -PW-3(A)

Weather Conditions: Cloudy, 30°s

Sampler's Name: TAL

Water Depth ~~(ft)~~: 7"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): ~~Ft~~ 0"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1425

Sample Time 1440

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1420				3.2		603.0		13.0		124		8.8		36	
1425					4.9		711		6.8		170		7.6		8.6
1430					4.9		722		6.7		192		7.6		5.4
1435					4.9		721		6.7		213		7.6		3.9
1440					4.9		723		6.7		227		7.6		1.3

MS/MSD taken

Attachment A – Pore Water Sampling Worksheet

Date: 12/7/20

Location ID: [redacted] WW/CH-PW-4(A)

Weather Conditions: Cloudy, 35°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 5"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): 0"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1515

Sample Time 1530

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
15:10	—	—		3.3		604		13.6		213.8		8.73		2.68	
1515	5"		150		5.2		1015		0.3		2.0		6.9		2.3
1520			150		5.3		1024		0.1		-25		7.1		0.6
1525			150		5.4		1024		0.1		-32		7.1		0.4
1530			150		5.4		1025		0.1		-37		7.1		0.4

Attachment A – Pore Water Sampling Worksheet

Date: 12/8/2020

Location ID: WV/CH-PW-5(A)

Weather Conditions: Cloudy, 33

Sampler's Name: TAL

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 10"

Sediment Thickness ~~(ft)~~ (est): 0"

Sample Depth (ft below ground surface of the river bottom): 0.83-0.96

Start time 11:15

Sample Time 11:30

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
11:10	—	—		3.4		674		5.05		97.3		8.47		2.9	
11:15			100ml		5.3		786		1.43		97.5		7.46		295
11:20			100ml		5.3		797		.16		58.6		7.28		36.9
11:25			100ml		5.3		796		.11		43.4		7.33		13.4
11:30			100ml		5.3		798		.09		31.6		7.28		15.6

Attachment A – Pore Water Sampling Worksheet

Date: 12/8/20

Location ID: WV/LH-PW 6(A)

Weather Conditions: Cloudy, 38°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 5"

Sampler Screen ~~Interval (ft) (below water surface)~~ top of 12"

Sediment Thickness ~~(ft)~~ (est): 4"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 12:10

Sample Time 12:30

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
12:00	—	-		3.3		674		12.78		216.7		8.42		8.9	
12:10			100		5.5		747		.96		-46.1		7.06		7.97
12:15					5.5		743		.47		-63.4		7.03		3.58
12:20					5.5		743.7		.46		-66.5		7.03		2.07
12:25					5.4		749		.47		-67.3		7.07		.99

Attachment A – Pore Water Sampling Worksheet

Date: 12/8/20 Location ID: WV/LH-PW-6(B)

Weather Conditions: Cloudy, 34° Sampler's Name: TAL

Water Depth ~~(ft)~~: 5" Sampler Screen ~~Interval (ft) (below water surface)~~ top 24"

Sediment Thickness ~~(ft)~~ (est): 4"

Sample Depth (ft below ground surface of the river bottom): 2-2.13

Start time 12:50 Sample Time 13:10

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
12:45	—	—		3.3		674		12.78		216.7		8.42		8.5	
12:50			100ml		6.9		686		1.20		-82.1		7.40		4.06
12:55			100		7.0		695		1.52		-95.1		7.34		1.61
13:00			100		7.0		684		1.67		-86.4		7.33		~~1.84~~ 1.4
13:05			100		7.0		686		1.29		-89.6		7.38		

Attachment A – Pore Water Sampling Worksheet

Date: 12/3/20 Location ID: HS - PW-1 (A)

Weather Conditions: Cloudy & 30's Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 12 in Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~22~~ " 24"

Sediment Thickness ~~(ft)~~ (est): 10 in Sample Depth (ft below ground surface of the river bottom): 2-2.13

Start time 1150 Sample Time 1205

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1140				2.8		513.8		6.62		268.6		7.86		1	
1150			150		4.6	~~1053~~	1053		2.09		225.9	~~7.60~~	7.60		4
1155			150		6.1		1066		1.24		189.0		7.48		3
1200			150		5.8		1064		1.22		181.2		7.44		2
1205			150		5.6		1067		1.19		177		7.4		2

Attachment A – Pore Water Sampling Worksheet

Date: 12/3/20

Location ID: HS-PW-1(3)

Weather Conditions: Cloudy & 30's

Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 12in

Sampler Screen ~~Interval (ft) (below water surface)~~ top 30 in.

Sediment Thickness ~~(ft)~~ (est): 10in

Sample Depth (ft below ground surface of the river bottom): 2.5-2.63

Start time 1230

Sample Time 1250

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1220				2.6		571.9		12.84		186.2		7.83		15	
1230															
1235					5.9		1060		2.48		198.8		7.40		4
1240					6.0		1061		1.22		192.4		7.36		3
1245					6.1		1062		1.05		187.8		7.31		2
1250					5.8		1064		0.9		185		7.3		1

YSI turned off

Attachment A – Pore Water Sampling Worksheet

Date: 12/4/2020 Location ID: HS - PW - 2 (A)

Weather Conditions: cloudy & 30s Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 5 in Sampler Screen ~~Interval (ft) (below water surface)~~ top: 12 in

Sediment Thickness ~~(ft)~~ (est): 2 in * Pore water has strong sulfur odor

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1430 Sample Time 1445

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1415				2.9		566.5		16.30		240.3	.	7.94		76	
1430			150		5.9		809		1.13		143.1		7.84		2
1435			150		5.7		818		1.03		-75.4		7.74		4
1440			150		5.9		819		0.94		-110.8		7.66		2
1445			150		5.9		820		0.94		-123		7.63		2

Attachment A – Pore Water Sampling Worksheet

Date: 1/26/21

Location ID: HS-PW-~~3~~2.5(A)

Weather Conditions: snow, low 20's, cloudy

Sampler's Name: Mallayla Myers

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~6-12~~ 6"

Sediment Thickness ~~(ft)~~ (est): 6-12"

Sample Depth (ft below ground surface of the river bottom): 0.5-0.63

Start time 1015 (arrive & setup)

Sample Time 1130

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1110				0.0		623		12.8		418		8.5		6.8	
1115					5.4		466		1.69		240		7.3		3.2
1118					5.5		466		0.57		232		7.3		2.1
1125					5.5		465		0.15		225		7.2		N.R.
1130					5.7		463		0.09		221		7.2		

Sample: WVNW-PW-3(A)

Attachment A – Pore Water Sampling Worksheet

Date: 1/26/21

Location ID: HS-PW-2.5(B)

Weather Conditions: SNOW

Sampler's Name: Mallory La Rogers

Water Depth (~~ft~~): 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~12 - 18"~~ 12"

Sediment Thickness ~~(ft)~~ (est): 12 - 18"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1155

Sample Time 1215

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1155				0.0		623		12.8		481		8.5		6.8	
1200					7.0		454		1.7		398		7.4		8.0
1205					6.9		464		0.4		385		7.4		3
1210					6.9		465		0.2		380		7.4		3
1215					6.9		466		0.1		378		7.4		3

Attachment A – Pore Water Sampling Worksheet

Date: 12/4/20

Location ID: HS-PW-3 (A)

Weather Conditions: Cloudy & 30s

Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 2:n

Sampler Screen ~~Interval (ft) (below water surface)~~ top 16:n

Sediment Thickness ~~(ft)~~ (est): 2:n

Sample Depth (ft below ground surface of the river bottom): 1.33-1.46

Start time 1020

Sample Time 1040

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1005				3.2		573.6		23.93		252.7		7.16		77.3	
1025					7.2	X	485.1		1.08		257.6		6.81		18.1
1030					6.9		489.7		0.95		178.2		6.60		3.5
1035					7.1		489.9		0.94		120.0		6.54		3.0
1040					7.1		492.1		1.02		71.8		6.51		2.3

Attachment A – Pore Water Sampling Worksheet

HS-PW-3R

Date: 1/26/21

Location ID: HS-PW-3(A) & DUP

Weather Conditions: Snowy, cloudy, 28°F

Sampler's Name: [illegible]

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below~~ top ~~water surface)~~: ~~6-12"~~ 6"

Sediment Thickness ~~(ft)~~ (est): 6-12"

Sample Depth (ft below ground surface of the river bottom): 0.5-0.63

Start time 1410

Sample Time 1430

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1410				0.1		619		13.3		455		8.7		5.3	8
1415					5.0		528		0.88		224		7.3		11
1420					5.0		528		0.22		201		7.2		5.1
1425					5.0		530		0.13		198		7.2		5.7
1430					5.0		531		0.12		197		7.2		3.0

Attachment A – Pore Water Sampling Worksheet

Date: 1/26/21

Location ID: HS-~~Creek~~-3.5(A) PW & MS/MSD

Weather Conditions: snow, cloudy, @ 28°

Sampler's Name: Indigo Amy

Water Depth (~~ft~~): ~~1~~ 1.5'

Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~1 2~~ ~~10 14~~ 10"

Sediment Thickness (~~ft~~) (est): ~~6 12~~ @ 4"

FB @ 1550

Sample Depth (ft below ground surface of the river bottom): 0.83-0.96

Start time 1515

Sample Time 1540

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1510				0.2		617		15.0		337		8.5		4.2	
1515					3.3	NOT >10% difference for all parameters → moved to new spot ~ 5ft downstream									
1520					5.1		720		3.4		228		7.5		5
1525					5.9		780		0.13		258		7.5		2.5
1530					5.2		784		0.10		271		7.5		N.R
1535					5.0		784		0.10		279		7.5		10.6
1540					5.2		781		0.09		295		7.5		12.7

Attachment A – Pore Water Sampling Worksheet

Date: 12/4/20

Location ID: MS-PW-4 (A)

Weather Conditions: Partly sunny & 30s

Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 12in

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 9in.

Sediment Thickness ~~(ft)~~ (est): 2in

Sample Depth (ft below ground surface of the river bottom): 0.75-0.88

Start time 1120

Sample Time 1140

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1116				7.1		671.3		19.05		63.3		6.71		17.5	
1126					9.3				1.04		78.0		6.91		4.8
1130					9.5		655.6		0.73		25.5		7.01		2.0
1135					9.6		655.7		0.67		-10.1		7.05		1.3
1140															

Date: 12/4/20

Attachment A – Pore Water Sampling Worksheet

Location ID: HS- PW- 5 (A)

Weather Conditions: Cloudy and 40s

Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 4 in

Sampler Screen ~~Interval (ft) (below water surface)~~ top 16 in

Sediment Thickness ~~(ft)~~ (est): 2 in

Sample Depth (ft below ground surface of the river bottom): 1.33-1.46

Start time 1400

Sample Time 1420

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1355				4.1		582.6		21.09		285.9		7.41		11.7	
1405					6.5		950		1.38		225.4		7.13		
1410					6.6		951		1.26		160.9		7.08		
1415					6.6		951		1.14		-0.3		6.98		
1420					6.6		953		1.05		-22.3		6.95		

*Turbidimeter Malfunctioning

Attachment A – Pore Water Sampling Worksheet

Date: 12/4/20

Location ID: HS-PW-6 (A)

Weather Conditions: Cloudy and 30s

Sampler's Name: Alexis Blackmore

Water Depth ~~(ft)~~: 2 in

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12 in

Sediment Thickness ~~(ft)~~ (est): 5 in

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 1455

Sample Time 1515

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1445				4.7		644.8		15.73	x	15.41		7.46		x	
1500					6.9		707.8		1.00		13.7		7.38		
1505					6.9		707.6		0.78		-23.9		7.38		
1510					6.9		707.1		0.77		-49.7		7.36		
1515					6.9		707.7		0.70		-66.4		7.34		

Turbidimeter malfunctioning

Attachment A – Pore Water Sampling Worksheet

Date: 12/3/20

Location ID: HS-PW-7 (A)

Weather Conditions: Cloudy & 30s

Sampler's Name: Alexis Blackmon

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top: 18"

Sediment Thickness ~~(ft)~~ (est): 3"

Sample Depth (ft below ground surface of the river bottom): 1.5-1.63

Start time: 1530

Sample Time: 1545

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
1525				3.1		562.1		15.41		-62.5		7.78		4	
1530			150		5.5		857		2.22		-20.7		7.42		0.5
1535			↓		6.0		925		1.18		-57.8		7.37		3
1540					6.1		943		1.16		-75.5		7.20		3
1545					6.1		945		1.14		-78.3		7.18		2

Attachment A – Pore Water Sampling Worksheet

Date: 12/8/2020

Location ID: HS-PW-8(A)

Weather Conditions: Cloudy, 37

Sampler's Name: TAL

Water Depth ~~(ft)~~: 6"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): 4"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 14:45

Sample Time 15:10

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
14:40	—	—		3.5		682		12.66		25.9		8.85			
14:45	—	—	100ml		5.5		660		.35		-172		7.89		36.5
14:50	—	—	100 ml		5.6		660		.21		-175		7.6		3.75
14:55	—	—	100		5.5		660		.21		-175		7.6		3.4
15:00	—	—	100		5.5		661		.22		-175.9		7.64		2.5
15:05	—	—	100		5.6		660		0.24		-176.3		7.66		1.25

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/20

Location ID: HS-PW-9 (A)

Weather Conditions: Cloudy, ~~326~~ 36°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 7"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 12"

Sediment Thickness ~~(ft)~~ (est): 2"

Sample Depth (ft below ground surface of the river bottom): 1-1.13

Start time 16:25

Sample Time 16:45

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
16:20	—	—		3.5		679		12.48		-13.3		8.8		2.87	
16:25	—	—	100 ml		3.9		668		4.49		-44.9		7.74		18.1
16:30	—	—	100 ml		3.8		683		.93		-79.9		7.82		4.03
16:35	—	—	100 ml		3.9		682		.72		-81.7		7.47		0.80
16:40	—	—	100 ml		3.7		682		.71		-83.6		7.75		.63

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/20

Location ID: HS-PW-10(A)

Weather Conditions: Cloudy, 39

Sampler's Name: TAL

Water Depth ~~(ft)~~: ~~5~~ 8"

Sampler Screen ~~Interval (ft) (below water surface)~~ top ~~10' - Seafloor~~ 5'

Sediment Thickness ~~(ft)~~ (est): 4.5', some clay / mud

Sample Depth (ft below ground surface of the river bottom): 5-5.13

Start time 9:45

Sample Time 10:05

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
9:39	-	-		3.0	~~6.4~~	649	~~648~~	10.58	~~3.48~~	58.3		8.49	~~7.82~~	2.79	~~3.15~~
9:45	-	-	100 ml		6.4		648		3.48		-89.3		7.82		3.15
9:50	-	-	100ml		6.7		649		.41		-97.4		7.87		0.71
9:55	-	-	100		6.8		649		.20		-101.2		7.72		0.64
10:00					6.7		649		.11		-105.3		7.97		0.26

Attachment A – Pore Water Sampling Worksheet

Date: 12/9/2020

Location ID: HS-PW-11(A)

Weather Conditions: Cloudy, 40°

Sampler's Name: TAL

Water Depth ~~(ft)~~: 4"

Sampler Screen ~~Interval (ft) (below water surface)~~ top 4.5' ~~4.63~~

Sediment Thickness ~~(ft)~~ (est): 4.2'

Sample Depth (ft below ground surface of the river bottom): 4.5-4.63

Start time 11:15

Sample Time 11:35

Time	Water Level (ft)	Drawdown (ft)	Purge Rate	Temp (°C)		Specific Conductance (us/cm)		Dissolved Oxygen (mg/L)		Oxidation Reduction Potential (mV)		pH (SU)		Turbidity (NTU)	
				River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water	River Water	Pore Water
10:40	—	—	-	3.1		657		10.8		82.4		8.48		5.17	
11:15	—	—	100 ml		5.6		624		.51		-101		7.84		13.1
11:20	—	—	100 ml		5.7		623		.18		-108		7.79		7.24
11:25	—	—	100 ml		5.7		624		.11		-112		7.82		5.25
11:30	—	—	100 ml		5.6		625		.08		-114.8		7.85		