

APPENDIX A

Sample Event Summary and Surface Water Sampling Field Sheets

September 15, 2009 Sampling Event

Surface water samples were collected on September 15, 2009, as soon as practical following the storm event that occurred on September 12. Surface water was present at sampler S-3 in sufficient quantities to sample. The storm event measured 0.4 inches at samplers S-3. Although rainfall from a trace to 0.7 inches was recorded at samplers S-1, S-2 and S-4, these samplers did not contain surface water and the associated drainages did not show signs of recent run-off. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-3. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event.

Appendix A-1 contains the Surface Water Field Data Sheet for this sampling event.

September 21, 2009 Sampling Event

Surface water samples were collected on September 21, 2009, as soon as practical following the storm event that occurred the day prior. Surface water was present at sampler S-3 in sufficient quantities to sample. The storm event measured 0.2 inches at sampler S-3. Although rainfall from 0.2 to 0.3 inches was recorded at samplers S-1, S-2 and S-4, these samplers did not contain surface water and the associated drainages did not show signs of recent run-off. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-3. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event.

Appendix A-2 contains the Surface Water Field Data Sheet for this sampling event.

February 9, 2010 Sampling Event

Surface water samples were collected on February 9, 2010, as soon as practical following the snowmelt event that occurred the day prior. Surface water was present at sampler S-3 in sufficient quantities to sample. Although snowmelt was observed at samplers S-1 and S-2, no water was flowing in the associated drainages and did not collect in these samplers. No snowmelt was observed in the vicinity of sampler S-4. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-3. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event.

Appendix A-3 contains the Surface Water Field Data Sheet for this sampling event.

February 12, 2010 Sampling Event

Surface water samples were collected on February 12, 2010, as soon as practical following the snowmelt event that occurred the day prior. Surface water was present at sampler S-1 in sufficient quantities to sample. Although snowmelt was observed at samplers S-2 and S-3, no water was flowing in quantities sufficient to collect in these samplers. No snowmelt was observed in the vicinity of sampler S-4. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-1. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event.

Appendix A-4 contains the Surface Water Field Data Sheet for this sampling event.

March 1, 2010 Sampling Event

Surface water samples were collected on March 1, 2010, as soon as practical following the snowmelt event that occurred the day prior. Surface water was present at samplers S-1, S-2 and S-3 in sufficient quantities to sample. Although snowmelt was observed at sampler S-4, no water was flowing in quantities sufficient to collect in this sampler. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, pre-cleaned liners and pre-filtration apparatus' were installed in samplers S-1, S-2 and S-3. The used apparatus' from the samplers were decontaminated, placed in clean plastic bags, and stored for use following the next sampling event.

Appendix A-5 contains the Surface Water Field Data Sheets for this sampling event.

Although flow was observed into S-3 again on March 3, 2010, it was not collected as it was a consecutive snowmelt event and within two weeks of the March 1 event.

March 9, 2010 Sampling Event

Surface water samples were collected on March 9, 2010, as soon as practical following the snowmelt event that occurred the day prior. Surface water was present at sampler S-4 in sufficient quantities to sample. Snowmelt was not observed at samplers S-1, S-2 and S-3 as much of the snow in these drainages had melted off in the previous week. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-4. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event.

Appendix A-6 contains the Surface Water Field Data Sheet for this sampling event.

July 30, 2010 Sampling Event

Surface water samples were collected on July 30, 2010, as soon as practical following the storm event that occurred the night prior. The storm event measured 01.7, 3.1, 3.0 and 2.6 inches at samplers S-1, S-2, S-3 and S-4 respectively. Due to the intensity of the July 29 precipitation event, sampler S-1 was $\frac{3}{4}$ full, samplers S-2 and S-3 were completely full, and sampler S-4 was $\frac{1}{4}$ full of sediment. Surface water from S-1 was collected from both the polyethylene liner and polymer concrete vault. Surface water from S-2 and S-3 was collected from nearby areas within the drainage (approximately 40' and 100' downstream, respectively) that had standing water. Surface water from S-4 was collected completely from the liner, as is typically done. The samples from samplers S-1 and S-4 were collected using a dedicated disposable polyethylene bailer. The samples collected from standing water in the drainages near to samplers S-2 and S-3 were collected using a peristaltic pump. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Intense storm events in the following days (July 31, August 2, August 3, August 4, and August 5) prevented clean-out and placement of pre-cleaned liners and pre-filtration apparatus' in samplers S-1, S-2, S-3 and S-4 until August 10. The used apparatus' from the samplers were decontaminated, placed in clean plastic bags, and stored for use following the next sampling event.

Appendix A-7 contains the Surface Water Field Data Sheets for this sampling event.

August 16, 2010 Sampling Event

Surface water samples were collected on August 16, 2010, as soon as practical following the storm event that occurred that day. Surface water was present at sampler S-3 in sufficient quantities to sample. The storm event measured 0.3 inches at sampler S-3. Although rainfall from 0.1 to 0.2 inches was recorded at samplers S-1, S-2 and S-4, these samplers did not contain surface water and the associated drainages did not show signs of recent run-off. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, a pre-cleaned liner and pre-filtration apparatus were installed in sampler S-3. The used apparatus from the sampler was decontaminated, placed in a clean plastic bag, and stored for use following the next sampling event. The specific conductance probe was malfunctioning and a specific conductance measured could not be obtained for this sample.

Appendix A-8 contains the Surface Water Field Data Sheet for this sampling event.

August 17, 2010 Sampling Event

Surface water samples were collected on August 17, 2010, as soon as practical following the storm event that occurred the night prior. Surface water was present at samplers S-1, S-2 and S-4 in sufficient quantities to sample. Sampler S-3 filled with sediment and was unable to be sampled. The storm event measured 0.2, 0.2, 0.5 and 0.3 inches at samplers S-1, S-2, S-3 and S-4, respectively. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, pre-cleaned liners and pre-filtration apparatus' were installed in samplers S-1, S-2, S-3 and S-4. The used apparatus' from the samplers were decontaminated, placed in clean plastic bags, and stored for use following the next sampling event.

Appendix A-9 contains the Surface Water Field Data Sheets for this sampling event.

September 23, 2010 Sampling Event

Surface water samples were collected on September 23, 2010, as soon as practical following the storm event that occurred the night prior. Surface water was present at samplers S-1, S-2, S-3 and S-4 in sufficient quantities to sample. The storm event measured 0.4, 0.45, 0.6 and 0.5 inches at samplers S-1, S-2, S-3 and S-4, respectively. The samples were collected using a dedicated disposable polyethylene bailer. The samples contained high amounts of sediment and were determined to be unfilterable using available field equipment. Therefore, filtering of the dissolved constituent samples was performed in the laboratory. Field parameters were measured from a grab sample during the sampling event.

Following sample collection, pre-cleaned liners and pre-filtration apparatus' were installed in samplers S-1, S-2, S-3 and S-4. The used apparatus' from the samplers were decontaminated, placed in clean plastic bags, and stored for use following the next sampling event.

Appendix A-10 contains the Surface Water Field Data Sheets for this sampling event.

APPENDIX A-1
September 15, 2009
Surface Water Sampling Field Data Sheet



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-3	<input checked="" type="checkbox"/> Disposable Bailer Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	AM/DR	1340 MST	9/15/09	
Rainfall at site: (read on rain gauge on post)			Meter Calibration			
0.4"			Time: 0500mat	Date: 7/28/2009	Automatic Calibrations? Yes	
			pH <input checked="" type="checkbox"/>	Cond. <input checked="" type="checkbox"/>	D.O. <input checked="" type="checkbox"/> ORP	
Water Level in Sample Box (in.)	24"	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH pH std. # 1 = 4.01 at 22.1 °C Calibration Evaluation pH std. # 2 = 7.00 at 22.1 °C 1 Bars			
Amount of Water Removed For Sampling from sample Box (in.)	15"		Slope = -56.4 mV/pH Assymetry = -9 mV			
Amount of Water Discarded in Drainage from sample Box (in.)	9"	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance Cell Constant = 0.47 1/cm Calibration Evaluation 3 Bars			
Water Level in The Containment Box (in.)	12"		Dissolved Oxygen Relative Slope = 0.89 at 23 °C Calibration Evaluation 1 Bars			
Amount of Water Discarded in the Drainage from containment Box (in.)	11"	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i	Oxygen-Reduction Potential			
Amount of Water Remaining in Containment Box (in.)	1"	Other: (Describe Below)	Conductance Standard: 220 mV Reads: 206 mV			
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
1340 MST	21.3	7.68	166.00	1.94	94	Fairly Muddy
Condition of Sampler: Good.			Full Suite: / No			
			#	Duplicate \ No	#	
			Partial Suite: Yes /	Rinsate \ No	#	
			SW-3	Trip Blank \ No	#	
Additional Comments: Archie found a dead lizard in sampler, post sampling calibration performed @ 1410 MST.			PPE Utilized	Gloves <input checked="" type="checkbox"/>		
				Safety Glasses <input checked="" type="checkbox"/>		
			Signature: <i>Douglas Roberts</i>			

APPENDIX A-2
September 21, 2009
Surface Water Sampling Field Data Sheet

APPENDIX A-3
February 9, 2010
Surface Water Sampling Field Data Sheet

APPENDIX A-4
February 12, 2010
Surface Water Sampling Field Data Sheet

APPENDIX A-5
March 1, 2010
Surface Water Sampling Field Data Sheets

APPENDIX A-6
March 9, 2010
Surface Water Sampling Field Data Sheet



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-4	<input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	1720MST	3/9/10	
Rainfall at site: (read on rain gauge on post)	Other: (Describe Below)	Other: (Describe Below)	Meter Calibration			
Snow Melt Event			Time: 1644mst Date: 3/9/2010 Automatic Calibrations? Yes pH <input checked="" type="checkbox"/> Cond. <input checked="" type="checkbox"/> D.O. <input checked="" type="checkbox"/> ORP			
Water Level in Sample Box (in.)	24	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH pH std. # 1 = 7.00 at 20.5 °C Calibration Evaluation pH std. # 2 = 10.00 at 20.5 °C 0 Bars Slope = -53.3 mV/pH Assymetry = -1 mV			
Amount of Water Removed For Sampling from sample Box (in.)	12	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance Cell Constant = 0.453 1/cm Calibration Evaluation 3 Bars			
Amount of Water Discarded in Drainage from sample Box (in.)	12		Dissolved Oxygen Relative Slope = 0.67 at 20.4 °C Calibration Evaluation 1 Bars			
Water Level in The Containment Box (in.)	3	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Oxygen-Reduction Potential Conductance Standard: RH28 @ 20.5 °C Reads: 223 mV			
Amount of Water Discarded in the Drainage from containment Box (in.)	2					
Amount of Water Remaining in Containment Box (in.)	1					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
1640MST	1.2	6.67	10.00	7.96	146	Fairly Clear
Condition of Sampler: Very Good, all working well.			Full Suite: / No	Duplicate \ No #		
Additional Comments: Post calibration @ 2008 MST on 3/1/10.			Partial Suite: / No	Rinsate \ No #		
				Trip Blank \ No #		
			PPE Utilized	Gloves <input checked="" type="checkbox"/>		
				Safety Glasses <input checked="" type="checkbox"/>		
			Signature: <i>Jason W. Jellison</i>			

APPENDIX A-7
July 30, 2010
Surface Water Sampling Field Data Sheets



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-2	<input checked="" type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Peristaltic Pump Other: (Describe Below)	<input checked="" type="checkbox"/> pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	1302 MST	7/30/10	
Rainfall at site: (read on rain gauge on post)	Other: (Describe Below)	Other: (Describe Below)	Meter Calibration			
3.1"			Time: 0644mst	Date: 7/30/2010	Automatic Calibrations?	Yes
Water Level in Sample Box (in.)	Full of Mud	<input checked="" type="checkbox"/> Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH pH std. # 1 = 7.00 at 22.8 °C Calibration Evaluation pH std. # 2 = 10.00 at 22.8 °C 3 Bars Slope = -57.9 mV/pH Assymetry = -14 mV			
Amount of Water Removed For Sampling from sample Box (in.)	0	<input checked="" type="checkbox"/> Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance Cell Constant = 0.474 1/cm Calibration Evaluation 3 Bars			
Amount of Water Discarded in Drainage from sample Box (in.)	0		Dissolved Oxygen Relative Slope = 0.90 at 26 °C Calibration Evaluation 3 Bars			
Water Level in The Containment Box (in.)	Full of Mud	<input checked="" type="checkbox"/> Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Oxygen-Reduction Potential Conductance Standard: RH28 @ 23 °C Reads: 218 mV			
Amount of Water Discarded in the Drainage from containment Box (in.)	0					
Amount of Water Remaining in Containment Box (in.)	0					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
1302MST	21.2	7.72	318	4.17	138	Muddy
Condition of Sampler: Major flood event, sampler and containment completely filled with sand/mud mix, not able to sample. Found large puddle = 40' downstream, sampled puddle with peristaltic pump.			Full Suite: / No # Duplicate \ No # Partial Suite: Yes # Rinsate \ No # # Trip Blank \ No #			
Additional Comments: Post calibration @ 1751 MST on 7/30/10.			PPE Utilized Gloves <input checked="" type="checkbox"/> Safety Glasses <input checked="" type="checkbox"/>			
			Signature: <i>Jess W. Scallan</i>			



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-3	<input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Peristaltic Pump Other: (Describe Below)	<input checked="" type="checkbox"/> pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	1518 MST	7/30/10	
Rainfall at site: (read on rain gauge on post)	Other: (Describe Below)	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Meter Calibration Time: 0644ms Date: 7/30/2010 Automatic Calibrations? Yes pH <input checked="" type="checkbox"/> Cond. <input checked="" type="checkbox"/> D.O. <input checked="" type="checkbox"/> ORP			
3.0"			pH pH std. # 1 = 7.00 at 22.8 °C Calibration Evaluation pH std. # 2 = 10.00 at 22.8 °C 3 Bars Slope = -57.9 mV/pH Assymetry = -14 mV			
Water Level in Sample Box (in.)	Full of Mud	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance Cell Constant = 0.474 1/cm Calibration Evaluation 3 Bars			
Amount of Water Removed For Sampling from sample Box (in.)	0		Dissolved Oxygen Relative Slope = 0.90 at 26 °C Calibration Evaluation 3 Bars			
Amount of Water Discarded In Drainage from sample Box (in.)	0		Oxygen-Reduction Potential Conductance Standard: RH28 @ 23 °C Reads: 218 mV			
Water Level In The Containment Box (in.)	Full of Mud	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)				
Amount of Water Discarded in the Drainage from containment Box (in.)	0					
Amount of Water Remaining in Containment Box (in.)	0					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
1518MST	20.1	7.74	294	4.23	131	Muddy
Condition of Sampler: Major flood event, sampler and containment completely filled with sand/mud mix, not able to sample. Found large puddle = 100' downstream, sampled puddle with peristaltic pump.			Full Suite: <input type="checkbox"/> / <input type="checkbox"/> No			
Additional Comments: Post calibration @ 1751 MST on 7/30/10.			# Duplicate <input type="checkbox"/> \ No #			
			Partial Suite: <input checked="" type="checkbox"/> Yes			
			Rinsate <input type="checkbox"/> \ No # Trip Blank <input type="checkbox"/> \ No #			
			PPE Utilized Gloves <input checked="" type="checkbox"/> Safety Glasses <input checked="" type="checkbox"/>			
			Signature: <i>[Handwritten Signature]</i>			

APPENDIX A-8
August 16, 2010
Surface Water Sampling Field Data Sheet

APPENDIX A-9
August 17, 2010
Surface Water Sampling Field Data Sheets



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-2	<input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	0930 MST	8/17/10	
Rainfall at site: (read on rain gauge on post)			Meter Calibration			
0.2"			Time: 0712mst Date: 8/17/2010 Automatic Calibrations? Yes pH <input checked="" type="checkbox"/> Cond. <input checked="" type="checkbox"/> D.O. <input checked="" type="checkbox"/> ORP			
Water Level in Sample Box (in.)	24	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH pH std. # 1 = 7.00 at 22.1 °C Calibration Evaluation pH std. # 2 = 10.00 at 22.1 °C 2 Bars Slope = -57.7 mV/pH Assymetry = -14 mV			
Amount of Water Removed For Sampling from sample Box (in.)	8		Specific Conductance Cell Constant = 0.452 1/cm Calibration Evaluation 3 Bars			
Amount of Water Discarded in Drainage from sample Box (in.)	0	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Dissolved Oxygen Relative Slope = 0.88 at 23.3 °C Calibration Evaluation 3 Bars			
Water Level in The Containment Box (in.)	24		Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)			
Amount of Water Discarded in the Drainage from containment Box (in.)	1	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Conductance Standard: RH28 @ 22.2 °C Reads: 224 mV			
Amount of Water Remaining in Containment Box (in.)	0					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
0930MST	20.8	8.38	119.00	2.87	123	Muddy
Condition of Sampler: Normal event, 3/4 sand/mud in both sampler and containment. Used all water from sampler and most of the water in the containment to get samples.			Full Suite: <input type="checkbox"/> No			
Additional Comments: Post calibration @ 1844 MST on 8/17/10.			#	Duplicate	No	#
			Partial Suite: <input checked="" type="checkbox"/> Yes	Rinse	\ No	#
				Trip Blank	\ No	#
			PPE Utilized	Gloves	<input checked="" type="checkbox"/>	
				Safety Glasses	<input checked="" type="checkbox"/>	
			Signature:	<i>[Handwritten Signature]</i>		

APPENDIX A-10
September 23, 2010
Surface Water Sampling Field Data Sheets



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-1	<input checked="" type="checkbox"/> Disposable Bailor Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	0814 MST	9/23/10	
Rainfall at site: (read on rain gauge on post)			Meter Calibration			
0.4"			Time: 0700 mat Date: 9/23/2010 Automatic Calibrations? Yes pH <input checked="" type="checkbox"/> Cond. <input checked="" type="checkbox"/> D.O. <input checked="" type="checkbox"/> ORP			
Water Level in Sample Box (in.)	24	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH pH std. # 1 = 7.00 at 19.6 °C Calibration Evaluation pH std. # 2 = 10.00 at 19.6 °C 2 Bars Slope = -57.8 mV/pH Assymetry = -14 mV			
Amount of Water Removed For Sampling from sample Box (in.)	12		Specific Conductance Cell Constant = 0.468 1/cm Calibration Evaluation 3 Bars			
Amount of Water Discarded In Drainage from sample Box (in.)	0	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Dissolved Oxygen Relative Slope = 0.88 at 23.7 °C Calibration Evaluation 3 Bars			
Water Level In The Containment Box (in.)	20		Oxygen-Reduction Potential Conductance Standard: RH28 @ 19.6 °C Reads: 221 mV			
Amount of Water Discarded in the Drainage from containment Box (in.)	8	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)				
Amount of Water Remaining in Containment Box (in.)	0					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
0814MST	12.4	7.78	269	1.02	146	Muddy
Condition of Sampler: About half sand/mud in both sampler and containment. Used only water from sampler for samples.			Full Suite: / No			
			#	Duplicate	No	#
			Partial Suite: Yes	Rinsate	\ No	#
				Trip Blank	\ No	#
Additional Comments: Post calibration @ 1810 MST on 9/23/10.			PPE Utilized		Gloves	<input checked="" type="checkbox"/>
					Safety Glasses	<input checked="" type="checkbox"/>
			Signature: <i>Joe W. Tully</i>			



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date	
SW-2	<input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	0918 MST	9/23/10	
Rainfall at site: (read on rain gauge on post)			Meter Calibration			
0.5"			Time: 0700 met	Date: 9/23/2010	Automatic Calibrations? Yes	
Water Level in Sample Box (in.)	24	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	pH <input checked="" type="checkbox"/>	Cond. <input checked="" type="checkbox"/>	D.O. <input checked="" type="checkbox"/>	
Amount of Water Removed For Sampling from sample Box (in.)	12		pH pH std. # 1 = 7.00 at 19.6 °C Calibration Evaluation pH std. # 2 = 10.00 at 19.6 °C 2 Bars Slope = -57.8 mV/pH Assymetry = -14 mV			
Amount of Water Discarded in Drainage from sample Box (in.)	12	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance			
Water Level in The Containment Box (in.)	14		Cell Constant = 0.468 1/cm	Calibration Evaluation 3 Bars		
Amount of Water Discarded in the Drainage from containment Box (in.)	13	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Dissolved Oxygen			
Amount of Water Remaining in Containment Box (in.)	0		Relative Slope = 0.88 at 23.7 °C	Calibration Evaluation 3 Bars		
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description
0918MST	13.6	8.59	102	3.48	134	Muddy
Condition of Sampler: Only an inch or so of sand/mud in both sampler and containment. Used only water from sampler for samples.			Full Suite: / No			
			#	Duplicate	No #	
			Partial Suite: Yes		Rinsate \ No #	
					Trip Blank \ No #	
Additional Comments: Post calibration @ 1810 MST on 9/23/10.			PPE Utilized		Gloves <input checked="" type="checkbox"/>	
					Safety Glasses <input checked="" type="checkbox"/>	
			Signature: <i>[Handwritten Signature]</i>			



SURFACE WATER SAMPLING FIELD DATA SHEET

Sampler No.	Sampling Equipment	Analytical Equipment	Sampler's Initials	Time	Date		
SW-3	<input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Peristaltic Pump Other: (Describe Below)	pH and Temp <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	JWF	1052 MST	9/23/10		
Rainfall at site: (read on rain gauge on post)			Meter Calibration				
0.6"			Time: 0700 mat Date: 9/23/2010 Automatic Calibrations? Yes pH <input checked="" type="checkbox"/> Cond. <input checked="" type="checkbox"/> D.O. <input checked="" type="checkbox"/> ORP				
Water Level in Sample Box (in.)	24	Specific Conductivity <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	<p style="text-align: center;">pH</p> pH std. # 1 = 7.00 at 19.6 °C Calibration Evaluation pH std. # 2 = 10.00 at 19.6 °C 2 Bars Slope = -57.8 mV/pH Assymetry = -14 mV				
Amount of Water Removed For Sampling from sample Box (in.)	12	Dissolved Oxygen <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Specific Conductance				
Amount of Water Discarded in Drainage from sample Box (in.)	2		Cell Constant = 0.468 1/cm Calibration Evaluation 3 Bars				
Water Level in The Containment Box (in.)	20	Oxygen-Reduction Potential <input checked="" type="checkbox"/> WTW 3400i Other: (Describe Below)	Dissolved Oxygen				
Amount of Water Discarded in the Drainage from containment Box (in.)	9		Relative Slope = 0.88 at 23.7 °C Calibration Evaluation 3 Bars				
Amount of Water Remaining in Containment Box (in.)	0	Oxygen-Reduction Potential					
		Conductance Standard: RH28 @ 19.6 °C Reads: 221 mV					
Time (MST)	Temperature (°C)	pH (s.u.)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Visual Description	
1052MST	13.5	7.98	145	1.63	124	Muddy	
Condition of Sampler: Around half sand/mud in both sampler and containment. Used only water from sampler for samples.			Full Suite: / No				
Additional Comments: Post calibration @ 1810 MST on 9/23/10.			#		Duplicate	Yes	#
			Partial Suite: Yes		Rinsate	\ No	#
					Trip Blank	\ No	#
PPE Utilized			Gloves		<input checked="" type="checkbox"/>		
			Safety Glasses		<input checked="" type="checkbox"/>		
Signature: <i>Jessie W. Fullbright</i>							

