WATER-RESOURCE SAMPLING IN AREAS OF OIL AND GAS DEVELOPMENT

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Montana Bureau of Mines and Geology

In collaboration with the Montana Department of Environmental Quality and the Montana Department of Natural Resources and Conservation

Montana Bureau of Mines and Geology Open-File Report 702

2018

Montana Bureau of Mines and Geology

Water-resource sampling in areas of oil and gas development

Appendices (A, B are attached to the report)

A. List of analytes
B. Sample sites

Appendices (C, D, E, F, G are attached here)

C. Inorganic results: Surface water
D. Inorganic results: Groundwater
E. Organic and radiochemistry results: Surface water
   E1. Complete results
   E2. Summary of detections
   E3. Methane and organic carbon results
F. Organic and radiochemistry results: Groundwater
G. Radiochemistry of Deer Creek

C. Inorganic results: Surface water

Station ID	Activity Start	Station Name Aquatic Standards (acute/chronic) Human Health Standard	Activity ID	Activity Type	Alkalinity, total as CaCO3	Aluminum~ ~ Dissolved	Aluminum~~ Dissolved	Aluminum ~~ Dissolved
						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00	Bennie Peer Creek at Hwy 23 crossing	4058-W(PAH)	Sample-Routine	598	0.109		
Y23BENPC03	6/25/2013 16:30	Bennie Peer Creek at Hwy 23 crossing	4089-W(PAH)	Sample-Routine	705	ND		
Y23BENPC03	8/7/2013 10:32	Bennie Peer Creek at Hwy 23 crossing	4118-W	QCS Field Replicate	590	0.196		
Y23BENPC03	8/7/2013 10:32	Bennie Peer Creek at Hwy 23 crossing	4116-W	Sample-Routine	589	0.164		
Y23BENPC03	10/23/2013 15:30	Bennie Peer Creek at Hwy 23 crossing	4303-F	Sample-Routine	555	ND		
Y23BENPC03	4/15/2014 18:13	Bennie Peer Creek at Hwy 23 crossing	4325-W	Sample-Routine	450	0.051	ND	
Y23BENPC03	6/24/2014 16:36	Bennie Peer Creek at Hwy 23 crossing	4341-W	Sample-Routine	812	ND	0.01	0.011
Y23BENPC03	8/12/2014 15:11	Bennie Peer Creek at Hwy 23 crossing	4408-W	Sample-Routine	970	0.524	0.011	0.016
Y23BENPC03	10/23/2014 15:35	Bennie Peer Creek at Hwy 23 crossing	5118-F	Sample-Routine	970	ND	0.151	ND
M50BMDYC11	7/12/2012 9:30	Big Muddy Creek at Hwy 2 crossing at USGS ga	4013-W	Sample-Routine	509	0.05		
M50BMDYC11	7/12/2012 9:45	Big Muddy Creek at Hwy 2 crossing at USGS ga	4014-W	QCS Field Replicate				
M50BMDYC11	10/17/2012 11:00	Big Muddy Creek at Hwy 2 crossing at USGS ga	4033-F	Sample-Routine	730	0.07		
M50BMDYC11	10/17/2012 11:15	Big Muddy Creek at Hwy 2 crossing at USGS ga	4034-W	QCS Field Replicate	730	0.07		
M50BMDYC11	4/23/2013 13:30	Big Muddy Creek at Hwy 2 crossing at USGS ga	4063-W(PAH)	QCS Field Replicate	172	0.101		
M50BMDYC11	4/23/2013 13:30	Big Muddy Creek at Hwy 2 crossing at USGS ga	4060-W(PAH)	Sample-Routine	174	0.087		
M50BMDYC11	6/25/2013 8:16	Big Muddy Creek at Hwy 2 crossing at USGS ga	4086-W(PAH)	Sample-Routine	434	0.013		
M50BMDYC11	8/6/2013 13:03	Big Muddy Creek at Hwy 2 crossing at USGS ga	4114-W(PAH)	Sample-Routine	460	ND		
M50BMDYC11	10/23/2013 7:50	Big Muddy Creek at Hwy 2 crossing at USGS ga	4300-W(PAH)	Sample-Routine	383	ND		
M50BMDYC11	4/15/2014 12:34	Big Muddy Creek at Hwy 2 crossing at USGS ga	4323-W	Sample-Routine	372	ND	ND	
M50BMDYC11	6/24/2014 12:11	Big Muddy Creek at Hwy 2 crossing at USGS ga	4339-W	Sample-Routine	568	ND	ND	ND
M50BMDYC11	8/12/2014 11:40	Big Muddy Creek at Hwy 2 crossing at USGS ga	4406-W	Sample-Routine	570	ND	0.01	ND
M50BMDYC11	10/23/2014 11:15	Big Muddy Creek at Hwy 2 crossing at USGS ga	5115-F	Sample-Routine	600	0.013	0.133	ND
M50BMDYC11	4/28/2015 12:15	Big Muddy Creek at Hwy 2 crossing at USGS ga	5156-F	Sample-Routine	570	0.009		
M50BMDYC11	6/17/2015 13:21	Big Muddy Creek at Hwy 2 crossing at USGS ga	4424-W	Sample-Routine	510	0.014		
M50BMDYC11	8/4/2015 12:15	Big Muddy Creek at Hwy 2 crossing at USGS ga	5207-W	Sample-Routine		0.034		
M50BMDYC11	10/20/2015 11:24	Big Muddy Creek at Hwy 2 crossing at USGS ga	5134-W	Sample-Routine	730	ND		
M50BMDYC11	6/21/2016 15:42	Big Muddy Creek at Hwy 2 crossing at USGS ga	5226-W	Sample-Routine	580	ND		

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						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09	Big Muddy Creek at Hwy 2 crossing at USGS ga	4293-W	Sample-Routine	580	0.017		
M50BMDYC11	10/4/2016 10:45	Big Muddy Creek at Hwy 2 crossing at USGS ga	5176-W	Sample-Routine	590	ND		
M50BMDYC12	6/13/2012 18:32	Big Muddy Creek at USGS gage near Manning L	4563-W	Sample-Routine	609	0.04		
Y23CABNC08	4/22/2013 11:16	Cabin Creek at Shortcut Rd crossing on state la	4054-W(PAH)	Sample-Routine	121	0.092		
Y23CABNC08	6/24/2013 11:34	Cabin Creek at Shortcut Rd crossing on state la	4080-W(PAH)	Sample-Routine	102	0.033		
Y23CABNC08	8/5/2013 13:10	Cabin Creek at Shortcut Rd crossing on state la	4108-W(PAH)	Sample-Routine	78.8	ND		
Y23CABNC08	10/22/2013 8:54	Cabin Creek at Shortcut Rd crossing on state la	4146-F	Sample-Routine	188	ND		
Y23CABNC08	4/16/2014 12:05	Cabin Creek at Shortcut Rd crossing on state la	4329-W	Sample-Routine	258	0.031	ND	
Y23CABNC08	6/25/2014 15:03	Cabin Creek at Shortcut Rd crossing on state la	4346-W	Sample-Routine	363	ND	ND	ND
Y23CABNC08	8/13/2014 13:22	Cabin Creek at Shortcut Rd crossing on state la	4413-W	Sample-Routine	290	0.041	0.024	0.081
Y23CABNC08	10/24/2014 14:30	Cabin Creek at Shortcut Rd crossing on state la	5122-W	Sample-Routine	330	0.044	0.199	0.03
Y23CABNC08	4/29/2015 19:30	Cabin Creek at Shortcut Rd crossing on state la	5168-F	Sample-Routine	420	ND		
Y23CABNC08	6/18/2015 18:56	Cabin Creek at Shortcut Rd crossing on state la	4430-W	Sample-Routine	390	0.082		
Y23CABNC08	8/6/2015 9:17	Cabin Creek at Shortcut Rd crossing on state la	5216-W	Sample-Routine		ND		
Y23CABNC08	10/21/2015 14:42	Cabin Creek at Shortcut Rd crossing on state la	5144-W	Sample-Routine	340	ND		
Y23CABNC08	6/23/2016 16:07	Cabin Creek at Shortcut Rd crossing on state la	5237-W	Sample-Routine	230	0.447		
Y23CABNC08	8/25/2016 8:22	Cabin Creek at Shortcut Rd crossing on state la	4441-W	Sample-Routine	250	0.394		
Y23CABNC08	10/5/2016 14:38	Cabin Creek at Shortcut Rd crossing on state la	5184-W	Sample-Routine	170	0.874		
Y23CEDRC04	4/22/2013 9:00	Cedar Creek on BLM land	4053-W(PAH)	Sample-Routine	90.2	0.042		
Y23CEDRC04	6/24/2013 9:16	Cedar Creek on BLM land	4078-W(PAH)	Sample-Routine	104	ND		
Y23CEDRC04	8/5/2013 9:35	Cedar Creek on BLM land	4107-W(PAH)	Sample-Routine	125	ND		
Y23CEDRC04	10/21/2013 15:00	Cedar Creek on BLM land	4145-F	QCS Field Replicate	250	0.011		
Y23CEDRC04	10/21/2013 15:00	Cedar Creek on BLM land	4145-W(PAH)	Sample-Routine	201	ND		
Y23CEDRC04	4/16/2014 8:00	Cedar Creek on BLM land	4328-W	QCS Field Replicate	173	0.039		
Y23CEDRC04	4/16/2014 8:00	Cedar Creek on BLM land	4327-W	Sample-Routine	174	0.035	ND	
Y23CEDRC04	6/25/2014 13:05	Cedar Creek on BLM land	4345-W	Sample-Routine	221	ND	ND	0.009
Y23CEDRC04	8/13/2014 11:14	Cedar Creek on BLM land	4412-W	Sample-Routine	280	ND	0.049	ND

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						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15	Cedar Creek on BLM land	5121-W	Sample-Routine	250	0.012	0.014	ND
Y23CEDRC04	4/30/2015 8:45	Cedar Creek on BLM land	5169-W	Sample-Routine	340	ND		
Y23CEDRC04	6/19/2015 17:37	Cedar Creek on BLM land	4435-W	Sample-Routine	210	0.045		
Y23CEDRC04	8/5/2015 15:48	Cedar Creek on BLM land	5215-W	Sample-Routine		0.221		
Y23CEDRC04	10/21/2015 12:56	Cedar Creek on BLM land	5143-W	Sample-Routine	330	ND		
Y23CEDRC04	6/22/2016 20:21	Cedar Creek on BLM land	5234-W	Sample-Routine	210	0.089		
Y23CEDRC04	8/24/2016 14:24	Cedar Creek on BLM land		Sample-Routine	230	0.258		
Y23CEDRC04	10/5/2016 12:33	Cedar Creek on BLM land	5183-W	Sample-Routine	190			
M51CHLYC04	6/13/2012 13:53	Charlie Creek East	4248-W	Sample-Routine	740	0.06		
M51CHLYC04	7/11/2012 18:00	Charlie Creek East	4012-W	Sample-Routine	476	0.06		
M51CHLYC04	10/17/2012 16:10	Charlie Creek East	4031-W	Sample-Routine	904	0.15		
M51CHLYC04	4/23/2013 11:30	Charlie Creek East	4062-W(PAH)	Sample-Routine	275	0.095		
M51CHLYC04	6/25/2013 12:12	Charlie Creek East	4085-W(PAH)	Sample-Routine	380	ND		
M51CHLYC04	8/6/2013 16:25	Charlie Creek East	4113-W(PAH)	Sample-Routine	378	ND		
M51CHLYC04	10/23/2013 11:30	Charlie Creek East	4302-W(PAH)	Sample-Routine	743	ND		
M51CHLYC04	4/15/2014 11:13	Charlie Creek East	4322-W	Sample-Routine	508	ND	ND	
M51CHLYC04	6/24/2014 10:47	Charlie Creek East	4338-W	Sample-Routine	570	ND	ND	ND
M51CHLYC04	8/12/2014 10:32	Charlie Creek East	4405-W	Sample-Routine	790	ND	ND	ND
M51CHLYC04	10/23/2014 10:00	Charlie Creek East	5114-F	Sample-Routine	850	ND	0.01	ND
M51CHLYC04	4/28/2015 11:00	Charlie Creek East	5155-F	Sample-Routine	680	ND		
M51CHLYC04	6/17/2015 11:22	Charlie Creek East	4423-W	Sample-Routine	570	ND		
M51CHLYC04	8/4/2015 10:42	Charlie Creek East	5206-W	Sample-Routine		ND		
M51CHLYC04	10/20/2015 10:09	Charlie Creek East	5133-W	Sample-Routine	860	ND		
M51CHLYC04	6/21/2016 12:56	Charlie Creek East	5225-W	Sample-Routine	780	ND		
M51CHLYC04	8/23/2016 10:31	Charlie Creek East	4292-W	Sample-Routine	640	ND		
M51CHLYC04	10/4/2016 9:35	Charlie Creek East	5175-W	Sample-Routine	460	0.01		
M51CHLYC05	6/13/2012 15:49	Charlie Creek West	4249-W	Sample-Routine	574	0.04		

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						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30	Charlie Creek West	4011-W	Sample-Routine	889	0.06		
M51CHLYC05	10/17/2012 14:23	Charlie Creek West	4032-W	Sample-Routine	284			
M51CHLYC05	4/23/2013 9:52	Charlie Creek West	4061-W(PAH)	Sample-Routine	427	0.32		
M51CHLYC05	6/25/2013 10:24	Charlie Creek West	4084-W(PAH)	Sample-Routine	443	0.224		
M51CHLYC05	8/6/2013 14:56	Charlie Creek West	4112-W(PAH)	Sample-Routine	506	ND		
M51CHLYC05	10/23/2013 9:50	Charlie Creek West	4301-F	Sample-Routine	559	ND		
M51CHLYC05	4/15/2014 9:45	Charlie Creek West	4326-W	Sample-Routine	496	ND	ND	
M51CHLYC05	6/24/2014 9:11	Charlie Creek West	4337-W	Sample-Routine	661	ND	0.034	0.041
M51CHLYC05	8/12/2014 8:58	Charlie Creek West	4404-W	Sample-Routine	920	1.28	0.061	0.047
M51CHLYC05	10/23/2014 9:00	Charlie Creek West	5113-F	Sample-Routine	920	0.054	0.241	0.031
M51CHLYC05	4/28/2015 9:51	Charlie Creek West	5154-F	Sample-Routine	830	0.018		
M51CHLYC05	6/17/2015 9:21	Charlie Creek West	4422-W	Sample-Routine	710	0.02		
M51CHLYC05	8/4/2015 9:20	Charlie Creek West	5205-W	Sample-Routine		ND		
M51CHLYC05	10/20/2015 8:54	Charlie Creek West	5132-W	Sample-Routine	1000	0.013		
M51CHLYC05	6/21/2016 10:43	Charlie Creek West	5224-F	Sample-Routine	560	0.759		
M51CHLYC05	8/23/2016 9:08	Charlie Creek West	4291-W	Sample-Routine	850	0.059		
M51CHLYC05	10/4/2016 8:22	Charlie Creek West	5174-W	Sample-Routine	190			
Y23DRMFC01	6/24/2014 19:41	Deer Creek Middle Fork d/s Johnson Reservoir	4342-W	Sample-Routine	617	ND	ND	ND
Y23DRMFC01	8/13/2014 9:06	Deer Creek Middle Fork d/s Johnson Reservoir	4411-W	QCS Field Replicate	740	ND	0.033	ND
Y23DRMFC01	8/13/2014 9:06	Deer Creek Middle Fork d/s Johnson Reservoir	4410-W	Sample-Routine	720	ND	0.033	ND
Y23DRMFC01	10/24/2014 8:20	Deer Creek Middle Fork d/s Johnson Reservoir	5119-W	Sample-Routine	600	0.104	ND	ND
Y23DRMFC01	4/29/2015 11:00	Deer Creek Middle Fork d/s Johnson Reservoir	5162-F	QCS Field Replicate	490	ND		
Y23DRMFC01	4/29/2015 11:00	Deer Creek Middle Fork d/s Johnson Reservoir	5162-W	Sample-Routine	500	ND		
Y23DRMFC01	6/19/2015 12:00	Deer Creek Middle Fork d/s Johnson Reservoir	4433-W	Sample-Routine	640	ND		
Y23DRMFC01	8/5/2015 12:14	Deer Creek Middle Fork d/s Johnson Reservoir	5213-F	Field Msr/Obs				
Y23DRMFC01	10/21/2015 9:58	Deer Creek Middle Fork d/s Johnson Reservoir	5140-W	Sample-Routine	630	ND		
Y23DRMFC01	10/21/2015 10:08	Deer Creek Middle Fork d/s Johnson Reservoir	5141-W	QCS Field Replicate	620	ND		

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						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47	Deer Creek Middle Fork d/s Johnson Reservoir	5231-F	Field Msr/Obs				
Y23DRMFC01	8/24/2016 12:10	Deer Creek Middle Fork d/s Johnson Reservoir	4438-F	Field Msr/Obs				
Y23DEERC01	6/25/2014 8:11	Deer Creek off Hwy 254 on private land	4344-W	QCS Field Replicate	523	ND	ND	ND
Y23DEERC01	6/25/2014 8:11	Deer Creek off Hwy 254 on private land	4343-W	Sample-Routine	528	ND	ND	ND
Y23DEERC01	8/13/2014 7:14	Deer Creek off Hwy 254 on private land	4409-W	Sample-Routine	540	ND	0.053	ND
Y23DRSFC01	10/24/2014 9:54	Deer Creek South Fork on private land	5120-F	QCS Field Replicate	630	0.01	ND	ND
Y23DRSFC01	10/24/2014 9:54	Deer Creek South Fork on private land	5120-W	Sample-Routine	640	0.026	ND	ND
Y23DRSFC01	4/29/2015 12:15	Deer Creek South Fork on private land	5164-F	Sample-Routine	630	ND		
Y23DRSFC01	6/19/2015 14:02	Deer Creek South Fork on private land	4434-W	Sample-Routine	830	ND		
Y23DRSFC01	8/5/2015 13:24	Deer Creek South Fork on private land	5214-W	Sample-Routine		0.011		
Y23DRSFC01	10/21/2015 11:30	Deer Creek South Fork on private land	5142-F	Field Msr/Obs				
Y23DRSFC01	6/22/2016 16:56	Deer Creek South Fork on private land	5233-W	QCS Field Replicate	290	ND	0.089	
Y23DRSFC01	8/24/2016 12:54	Deer Creek South Fork on private land	4439-F	Field Msr/Obs				
Y23DRSFC01	10/5/2016 11:00	Deer Creek South Fork on private land	5182-F	Field Msr/Obs				
M51FORMC04	4/23/2013 16:30	Fourmile Creek downstream NF Fourmile Creel	4059-W(PAH)	Sample-Routine	298	0.097		
M51FORMC04	6/25/2013 14:13	Fourmile Creek downstream NF Fourmile Creel	4088-W(PAH)	QCS Field Replicate	446	ND		
M51FORMC04	6/25/2013 14:13	Fourmile Creek downstream NF Fourmile Creel	4087-W(PAH)	Sample-Routine	445	ND		
M51FORMC04	10/23/2013 13:58	Fourmile Creek downstream NF Fourmile Creel	4115-F	Sample-Routine	626	ND		
M51FORMC04	4/15/2014 15:00	Fourmile Creek downstream NF Fourmile Creel	4324-W	Sample-Routine	509	ND	ND	
M51FORMC04	6/24/2014 13:53	Fourmile Creek downstream NF Fourmile Creel	4340-W	Sample-Routine	470	ND	ND	ND
M51FORMC04	8/12/2014 13:40	Fourmile Creek downstream NF Fourmile Creel	4407-W	Sample-Routine	880	ND	0.025	ND
M51FORMC04	10/23/2014 12:30	Fourmile Creek downstream NF Fourmile Creel	5116-F	Sample-Routine	640	ND	0.088	ND
M51FORMC04	4/28/2015 19:15	Fourmile Creek downstream NF Fourmile Creel	5159-F	QCS Field Replicate	580	ND		
M51FORMC04	4/28/2015 19:15	Fourmile Creek downstream NF Fourmile Creel	5159-W	Sample-Routine	580	ND		
M51FORMC04	6/17/2015 17:57	Fourmile Creek downstream NF Fourmile Creel	4428-W	Sample-Routine	460	ND		
M51FORMC04	8/5/2015 8:38	Fourmile Creek downstream NF Fourmile Creel	5211-W	Sample-Routine		ND		
M51FORMC04	10/20/2015 18:31	Fourmile Creek downstream NF Fourmile Creel	5138-W	Sample-Routine	690	ND		

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					mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	Fourmile Creek downstream NF Fourmile Creel	5228-W	Sample-Routine	470	ND		
M51FORMC04	8/24/2016 8:09	Fourmile Creek downstream NF Fourmile Creel	4298-W	Sample-Routine	740	ND		
M51FORMC04	10/4/2016 16:03	Fourmile Creek downstream NF Fourmile Creel	5179-W	Sample-Routine	620	0.022		
Y23FXEFC01	10/23/2014 14:10	Fox Creek East Fork at Hwy 200 crossing	5117-F	Sample-Routine	760	ND	ND	ND
Y23FXEFC02	4/29/2015 9:00	Fox Creek East Fork off CR328	5161-F	Sample-Routine	720	ND		
Y23FXEFC02	6/18/2015 14:02	Fox Creek East Fork off CR328	4429-W	Sample-Routine	270	ND		
Y23FXEFC02	8/5/2015 10:16	Fox Creek East Fork off CR328	5212-W	Sample-Routine		ND		
Y23FXEFC02	10/21/2015 7:35	Fox Creek East Fork off CR328	5139-W	Sample-Routine	640	ND		
Y23FXEFC02	6/22/2016 11:22	Fox Creek East Fork off CR328	5230-W	QCS Field Replicate	230	ND		
Y23FXEFC02	6/22/2016 11:22	Fox Creek East Fork off CR328	5229-W	Sample-Routine	220	ND		
Y23FXEFC02	8/24/2016 9:58	Fox Creek East Fork off CR328	4437-W	Sample-Routine	630	ND		
Y23FXEFC02	10/5/2016 7:55	Fox Creek East Fork off CR328	5181-W	QCS Field Replicate	400	ND		
Y23FXEFC02	10/5/2016 7:55	Fox Creek East Fork off CR328	5180-W	Sample-Routine	400	ND		
Y27LBVRC13	4/22/2013 16:30	Little Beaver Creek southeast of Baker	4057-F	Sample-Routine	409	0.691		
Y27LBVRC13	6/24/2013 16:56	Little Beaver Creek southeast of Baker	4083-W(PAH)	Sample-Routine	338	0.253		
Y27LBVRC13	8/5/2013 17:05	Little Beaver Creek southeast of Baker	4111-W(PAH)	Sample-Routine	131	0.03		
Y27LBVRC13	10/22/2013 13:40	Little Beaver Creek southeast of Baker	4149-W(PAH)	Sample-Routine	378	ND		
Y27LBVRC13	4/16/2014 16:00	Little Beaver Creek southeast of Baker	4331-W	Sample-Routine	388	0.015	ND	
Y27LBVRC13	6/25/2014 18:35	Little Beaver Creek southeast of Baker	4348-W	Sample-Routine	442	ND	0.014	0.018
Y27LBVRC13	8/13/2014 16:26	Little Beaver Creek southeast of Baker	4415-W	Sample-Routine	390	ND	0.058	0.011
Y27LBVRC13	10/24/2014 16:50	Little Beaver Creek southeast of Baker	5124-W	Sample-Routine	430	ND	0.037	ND
Y27LBVRC13	4/29/2015 15:40	Little Beaver Creek southeast of Baker	5165-F	Sample-Routine	490	0.024		
Y27LBVRC13	8/6/2015 13:52	Little Beaver Creek southeast of Baker	5218-F	Sample-Routine		0.024		
Y27LBVRC13	10/21/2015 17:07	Little Beaver Creek southeast of Baker	5146-W	Sample-Routine	420	0.013		
Y27LBVRC13	6/23/2016 20:42	Little Beaver Creek southeast of Baker	5239-W	Sample-Routine	430	0.027		
Y27LBVRC13	8/25/2016 12:59	Little Beaver Creek southeast of Baker	4444-W	Sample-Routine	410	0.039		
Y27LBVRC13	10/6/2016 7:43	Little Beaver Creek southeast of Baker	5186-W	Sample-Routine	340	0.323		

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						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38	Little Boxelder Creek	4245-W	Sample-Routine	159	0.05		
M42LBOXC05	7/10/2012 19:05	Little Boxelder Creek	4007-W	Sample-Routine	214	0.02		
M42LBOXC05	10/16/2012 9:20	Little Boxelder Creek	4027-W	Sample-Routine	272	0.05		
M42LBOXC06	4/23/2013 10:40	Little Boxelder Creek	5093-F	QCS Field Replicate	205	0.044		
M42LBOXC06	4/23/2013 10:40	Little Boxelder Creek	5093-W	Sample-Routine	206	0.044		
M42LBOXC06	6/17/2013 17:15	Little Boxelder Creek	4277-W	Sample-Routine	195	0.082		
M42LBOXC06	8/18/2013 17:45	Little Boxelder Creek	4355-F	Sample-Routine	266	ND		
M42LBOXC06	10/7/2013 16:15	Little Boxelder Creek	4134-F	Sample-Routine	284	ND		
M42LBOXC05	4/14/2014 15:30	Little Boxelder Creek	4321-W	Sample-Routine	199	0.01	ND	
M42LBOXC05	6/23/2014 14:30	Little Boxelder Creek	4335-W	Sample-Routine	231	ND	ND	
M42LBOXC06	8/11/2014 14:10	Little Boxelder Creek	4402-W	Sample-Routine	310	0.109	ND	ND
M42LBOXC05	10/22/2014 13:30	Little Boxelder Creek	5111-W	Sample-Routine	300	ND	0.066	ND
M42LBOXC05	4/27/2015 15:15	Little Boxelder Creek	5152-F	Sample-Routine	240	ND		
M42LBOXC05	6/16/2015 14:23	Little Boxelder Creek	4419-W	Sample-Routine	280	ND		
M42LBOXC05	6/16/2015 14:24	Little Boxelder Creek	4420-W	QCS Field Replicate	280	ND		
M42LBOXC05	8/3/2015 16:33	Little Boxelder Creek	5202-W	Sample-Routine		ND		
M42LBOXC05	8/3/2015 16:47	Little Boxelder Creek	5203-W	QCS Field Replicate		ND		
M42LBOXC05	10/19/2015 13:00	Little Boxelder Creek	5130-F	Sample-Routine	340	ND		
M42LBOXC05	6/20/2016 16:01	Little Boxelder Creek	5222-W	Sample-Routine	210	0.016		
M42LBOXC05	8/22/2016 15:43	Little Boxelder Creek	4289-W	Sample-Routine	290	ND		
M42LBOXC05	10/3/2016 13:05	Little Boxelder Creek	5172-W	Sample-Routine	300	ND		
M50MEDL01	4/28/2015 17:15	Medicine Lake	5158-F	Sample-Routine	520	0.354		
M50MEDL01	6/18/2015 9:44	Medicine Lake	4426-W	Sample-Routine	520	0.054		
M50MEDL01	6/18/2015 10:01	Medicine Lake	4427-W	QCS Field Replicate	530	0.05		
M50MEDL01	8/4/2015 14:00	Medicine Lake	5209-W	Sample-Routine		0.198		
M50MEDL01	8/4/2015 14:12	Medicine Lake	5210-W	QCS Field Replicate		0.186		
M50MEDL01	10/20/2015 16:08	Medicine Lake	5136-W	Sample-Routine	620	0.137		

Station ID	Activity Start	Station Name Aquatic Standards (acute/chronic) Human Health Standard	Activity ID	Activity Type	Alkalinity, total as CaCO3	Aluminum~~ Dissolved	Aluminum~~~ Dissolved	Aluminum ~~~ Dissolved
						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18	Medicine Lake	5137-W	QCS Field Replicate	640	0.142		
M50MEDL01	6/23/2016 9:08	Medicine Lake	5236-W	QCS Field Replicate	680	0.056		
M50MEDL01	6/23/2016 9:08	Medicine Lake	5235-W	Sample-Routine	690	0.061		
M50MEDL01	8/23/2016 17:36	Medicine Lake	4297-W	QCS Field Replicate	700	0.018		
M50MEDL01	8/23/2016 17:36	Medicine Lake	4296-W	Sample-Routine	700	0.014		
M50MEDL01	10/4/2016 12:24	Medicine Lake	5178-W	QCS Field Replicate	730	0.218		
M50MEDL01	10/4/2016 12:24	Medicine Lake	5177-W	Sample-Routine	730	0.215		
Y22PENELC02	4/22/2013 12:40	Pennel Creek at Anticline Road crossing	4055-W(PAH)	Sample-Routine	126	0.376		
Y22PENELC02	6/24/2013 13:18	Pennel Creek at Anticline Road crossing	4081-W(PAH)	Sample-Routine	120	ND		
Y22PENELC02	8/5/2013 15:05	Pennel Creek at Anticline Road crossing	4109-W(PAH)	Sample-Routine	132	0.026		
Y22PENELC02	10/22/2013 10:26	Pennel Creek at Anticline Road crossing	4147-F	Sample-Routine	242	ND		
Y22PENELC02	4/16/2014 13:30	Pennel Creek at Anticline Road crossing	4330-W	Sample-Routine	377	0.014	ND	
Y22PENELC02	6/25/2014 16:55	Pennel Creek at Anticline Road crossing	4347-W	Sample-Routine	427	ND	0.017	0.024
Y22PENELC02	8/13/2014 14:40	Pennel Creek at Anticline Road crossing	4414-W	Sample-Routine	530	ND	0.07	0.01
Y22PENELC02	10/24/2014 15:56	Pennel Creek at Anticline Road crossing	5123-F	Sample-Routine	620	0.025	0.034	ND
Y22PENELC02	4/29/2015 18:15	Pennel Creek at Anticline Road crossing	5167-F	Sample-Routine	510	ND		
Y22PENELC02	6/18/2015 20:42	Pennel Creek at Anticline Road crossing	4431-F	Field Msr/Obs	440	ND		
Y22PENELC02	8/6/2015 10:50	Pennel Creek at Anticline Road crossing	5217-W	Sample-Routine		ND		
Y22PENELC02	10/21/2015 15:46	Pennel Creek at Anticline Road crossing	5145-W	Sample-Routine	390	ND		
Y22PENELC02	6/23/2016 18:27	Pennel Creek at Anticline Road crossing	5238-W	Sample-Routine	370	0.032		
Y22PENELC02	8/25/2016 10:11	Pennel Creek at Anticline Road crossing	4442-W	Sample-Routine	380	0.016		
Y22PENELC02	10/5/2016 15:48	Pennel Creek at Anticline Road crossing	5185-W	Sample-Routine	230	0.544		
Y22SNSTC04	4/22/2013 14:15	Sandstone Creek just below Plevna	4056-W(PAH)	Sample-Routine	235	0.095		
Y22SNSTC04	6/24/2013 15:00	Sandstone Creek just below Plevna	4082-W(PAH)	Sample-Routine	98.7	0.788		
Y22SNSTC04	8/6/2013 8:40	Sandstone Creek just below Plevna	4110-W(PAH)	Sample-Routine	210	0.095		
Y22SNSTC04	10/22/2013 11:51	Sandstone Creek just below Plevna	4148-F	Sample-Routine	263	ND		
Y22SNSTC04	4/16/2014 18:00	Sandstone Creek just below Plevna	4332-W	Sample-Routine	258	0.041	ND	

Station ID	Activity Start	Station Name Aquatic Standards (acute/chronic) Human Health Standard	Activity ID	Activity Type	Alkalinity, total as CaCO3	Aluminum~~ Dissolved	Aluminum~~~ Dissolved	Aluminum ~~~ Dissolved
						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20	Sandstone Creek just below Plevna	4349-W	Sample-Routine	462	ND	ND	ND
Y22SNSTC04	8/13/2014 17:53	Sandstone Creek just below Plevna	4416-W	Sample-Routine	480	ND	0.06	ND
Y22SNSTC04	10/24/2014 18:15	Sandstone Creek just below Plevna	5125-W	Sample-Routine	420	ND	0.208	ND
Y22SNSTC04	4/29/2015 17:15	Sandstone Creek just below Plevna	5166-F	Sample-Routine	470	ND		
Y22SNSTC04	6/19/2015 7:51	Sandstone Creek just below Plevna	4432-W	Sample-Routine	560	0.013		
Y22SNSTC04	8/6/2015 11:51	Sandstone Creek just below Plevna	5219-W	Sample-Routine		ND		
Y22SNSTC04	10/22/2015 7:35	Sandstone Creek just below Plevna	5147-W	Sample-Routine	550	0.011		
Y22SNSTC04	6/24/2016 8:20	Sandstone Creek just below Plevna	5240-W	Sample-Routine	450	0.01		
Y22SNSTC04	8/25/2016 11:23	Sandstone Creek just below Plevna	4443-W	Sample-Routine	440	ND		
Y22SNSTC04	10/6/2016 9:20	Sandstone Creek just below Plevna	5187-W	Sample-Routine	180	0.356		
M52ULDSP01	4/28/2015 14:45	Ueland Road Spring	5157-F	Sample-Routine	240	ND		
M52ULDSP01	8/4/2015 16:22	Ueland Road Spring	5208-W	Sample-Routine		ND		
M52ULDSP01	10/20/2015 13:46	Ueland Road Spring	5135-W	Sample-Routine	270	ND		
M52ULDSP01	8/23/2016 14:40	Ueland Road Spring	4295-W	QCS Field Replicate	230	ND		
M52ULDSP01	8/23/2016 14:40	Ueland Road Spring	4294-W	Sample-Routine	230	ND		
M39WHTWC09	7/11/2012 10:00	Whitewater Creek at Hwy 243 crossing	4008-W	Sample-Routine	658	0.05		
M39WHTWC09	10/16/2012 13:15	Whitewater Creek at Hwy 243 crossing	4028-W	Sample-Routine	855	0.07		
M39WHTWC09	4/23/2013 15:15	Whitewater Creek at Hwy 243 crossing	5092-F	Sample-Routine	214	0.276		
M39WHTWC09	6/18/2013 11:20	Whitewater Creek at Hwy 243 crossing	4278-F	Field Msr/Obs				
M39WHTWC09	6/18/2013 11:30	Whitewater Creek at Hwy 243 crossing	4278-W	Sample-Routine	341	0.36		
M39WHTWC09	8/19/2013 11:30	Whitewater Creek at Hwy 243 crossing	4356-F	Sample-Routine	608	ND		
M39WHTWC09	10/8/2013 10:45	Whitewater Creek at Hwy 243 crossing	4136-W	Sample-Routine	694	ND		
M39WHTWC09	4/14/2014 19:00	Whitewater Creek at Hwy 243 crossing	4320-F	Sample-Routine	238	0.084	ND	
M39WHTWC09	6/23/2014 17:43	Whitewater Creek at Hwy 243 crossing	4336-W	Sample-Routine	558	ND	ND	
M39WHTWC09	8/11/2014 17:10	Whitewater Creek at Hwy 243 crossing	4403-W	Sample-Routine	610	ND	0.015	ND
M39WHTWC09	10/22/2014 18:45	Whitewater Creek at Hwy 243 crossing	5112-F	Sample-Routine	610	ND	0.02	ND
M39WHTWC09	4/27/2015 18:30	Whitewater Creek at Hwy 243 crossing	5153-F	Sample-Routine	450	ND		

Station ID	Activity Start	Station Name Aquatic Standards (acute/chronic) Human Health Standard	Activity ID	Activity Type	Alkalinity, total as CaCO3	Aluminum~ ~ Dissolved	Aluminum~~ Dissolved	Aluminum ~~ Dissolved
						0.750/.087		
					mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	Whitewater Creek at Hwy 243 crossing	4421-W	Sample-Routine	440	ND		
M39WHTWC09	8/3/2015 19:11	Whitewater Creek at Hwy 243 crossing	5204-W	Sample-Routine		ND		
M39WHTWC09	10/19/2015 15:46	Whitewater Creek at Hwy 243 crossing	5131-W	Sample-Routine	750	0.01		
M39WHTWC09	6/20/2016 20:17	Whitewater Creek at Hwy 243 crossing	5223-W	Sample-Routine	380	ND		
M39WHTWC09	8/22/2016 18:40	Whitewater Creek at Hwy 243 crossing	4290-W	Sample-Routine	490	ND		
M39WHTWC09	10/3/2016 15:59	Whitewater Creek at Hwy 243 crossing	5173-W	Sample-Routine	450	0.087		
M39WHTWC10	6/12/2012 18:33	Whitewater Creek near Cole Ponds	4247-W	Sample-Routine	675	0.05		
M17WILOC03	4/22/2013 18:20	Willow Creek at N Devon Road crossing	5090-W	Sample-Routine	312	0.089		
M17WILOC03	6/17/2013 13:30	Willow Creek at N Devon Road crossing	4276	QCS Field Replicate	376	ND		
M17WILOC03	6/17/2013 13:30	Willow Creek at N Devon Road crossing	4275-F	Sample-Routine	377	ND		
M17WILOC03	8/18/2013 13:55	Willow Creek at N Devon Road crossing	4354-W	QCS Field Replicate	347	ND		
M17WILOC03	8/18/2013 13:55	Willow Creek at N Devon Road crossing	4353-W	Sample-Routine	345	ND		
M17WILOC03	10/7/2013 12:50	Willow Creek at N Devon Road crossing	4135-F	QCS Field Replicate	402	ND		
M17WILOC03	10/7/2013 13:00	Willow Creek at N Devon Road crossing	4135-W	Sample-Routine	403	ND		
M17WILOC02	6/12/2012 10:45	Willow Creek near Devon, MT	4244-W	Sample-Routine	399	0.05		
M17WILOC02	6/18/2012 11:23	Willow Creek near Devon, MT	4002-W	Sample-Routine				
M17WILOC02	6/18/2012 11:25	Willow Creek near Devon, MT	4002-F	QCS Field Replicate				
M17WILOC02	7/10/2012 15:50	Willow Creek near Devon, MT	4006-W	Sample-Routine	387	0.06		
M17WILOC02	10/15/2012 16:37	Willow Creek near Devon, MT	4026-F	Sample-Routine	393	0.11		
M17WILOC02	8/11/2014 10:45	Willow Creek near Devon, MT	4401-W	Sample-Routine	390	ND	ND	ND
M17WILOC04	4/14/2014 11:35	Willow Creek on state land, at Green Hill Schoc	4319-W	Sample-Routine	240	ND	ND	
M17WILOC04	6/23/2014 11:30	Willow Creek on state land, at Green Hill Schoc	4334-W	Sample-Routine	428	ND	ND	
M17WILOC04	10/22/2014 10:15	Willow Creek on state land, at Green Hill Schoc	5110-F	Sample-Routine	450	ND	ND	ND
M17WILOC04	4/27/2015 12:00	Willow Creek on state land, at Green Hill Schoc	5151-F	Sample-Routine	410	ND		
M17WILOC04	6/16/2015 10:28	Willow Creek on state land, at Green Hill Schoc	4418-W	Sample-Routine	320	ND		
M17WILOC04	8/3/2015 14:10	Willow Creek on state land, at Green Hill Schoc	5201-W	Sample-Routine		ND		
M17WILOC04	10/19/2015 10:08	Willow Creek on state land, at Green Hill Schoc	5129-W	Sample-Routine	500	ND		

Station ID	Activity Start	Station Name Aquatic Standards (acute/chronic) Human Health Standard	Activity ID	Activity Type	Alkalinity, total as CaCO3	Aluminum~~ Dissolved 0.750/.087	Aluminum~~~ Dissolved	Aluminum ~~~ Dissolved
					mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	Willow Creek on state land, at Green Hill Schoc	5221-W	Sample-Routine	410	ND		
M17WILOC04	8/22/2016 12:46	Willow Creek on state land, at Green Hill Schoc	4288-W	Sample-Routine	210	ND		
M17WILOC04	10/3/2016 10:29	Willow Creek on state land, at Green Hill Schoc	5171-W	Sample-Routine	320	0.015		
M17WLWFC01	6/12/2012 11:45	Willow Creek West Fork at Hwy 2 crossing	4564-F	Field Msr/Obs				

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00					0.003	7.38				0.064	585
Y23BENPC03	6/25/2013 16:30					0.004	6.9				0.075	665
Y23BENPC03	8/7/2013 10:32					0.004	4.32				0.065	523
Y23BENPC03	8/7/2013 10:32					0.004	4.3				0.065	521
Y23BENPC03	10/23/2013 15:30					0.004	5.65				0.057	532
Y23BENPC03	4/15/2014 18:13		0.002	0.001		0.005	4.44	0.046	0.042		0.077	450
Y23BENPC03	6/24/2014 16:36		0.002	0.002	0.002	0.004		0.024	0.024	0.024	0.034	752
Y23BENPC03	8/12/2014 15:11	1.46	0.004	0.004	0.004	0.005		0.024	0.029	0.024	0.039	1200
Y23BENPC03	10/23/2014 15:35	0.579	0.006	0.002	0.002	0.003		0.019	0.02	0.019	0.023	1000
M50BMDYC11	7/12/2012 9:30					0.009	4.91				0.078	424
M50BMDYC11	7/12/2012 9:45											
M50BMDYC11	10/17/2012 11:00					0.008	4.97				0.079	624
M50BMDYC11	10/17/2012 11:15					0.009					0.08	626
M50BMDYC11	4/23/2013 13:30					0.004					0.046	172
M50BMDYC11	4/23/2013 13:30					0.004					0.044	174
M50BMDYC11	6/25/2013 8:16					0.009	7.78				0.078	392
M50BMDYC11	8/6/2013 13:03					0.007	5.73				0.088	363
M50BMDYC11	10/23/2013 7:50					0.003	6.29				0.062	352
M50BMDYC11	4/15/2014 12:34		0.006	0.006		0.007	6.67	0.03	0.031		0.044	319
M50BMDYC11	6/24/2014 12:11		0.007	0.007	0.007	0.009		0.045	0.044	0.046	0.068	489
M50BMDYC11	8/12/2014 11:40	2.55	0.014	0.013	0.013	0.016		0.051	0.049	0.05	0.082	590
M50BMDYC11	10/23/2014 11:15	1.16	0.011	0.01	0.01	0.01		0.053	0.053	0.052	0.061	610
M50BMDYC11	4/28/2015 12:15	2.6	0.005			0.006		0.06			0.087	
M50BMDYC11	6/17/2015 13:21	4.9	0.011			0.012	7.74	0.048			0.084	
M50BMDYC11	8/4/2015 12:15	2.62	0.023			0.023		0.053			0.083	
M50BMDYC11	10/20/2015 11:24	2.02	0.011			0.012		0.064			0.085	800
M50BMDYC11	6/21/2016 15:42	1.94	0.009			0.01	8.48	0.073			0.099	630

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09	5.36	0.019			0.019		0.054			0.092	630
M50BMDYC11	10/4/2016 10:45	3.18	0.011			0.012		0.065			0.096	660
M50BMDYC12	6/13/2012 18:32					0.044	3.48				0.069	578
Y23CABNC08	4/22/2013 11:16					0.034	4.41				0.532	121
Y23CABNC08	6/24/2013 11:34					0.045	3.86				1.12	102
Y23CABNC08	8/5/2013 13:10					0.038	3.86				0.751	78.8
Y23CABNC08	10/22/2013 8:54					0.01	3.42				0.151	188
Y23CABNC08	4/16/2014 12:05		0.002	0.002		0.003	4.76	0.052	0.052		0.064	258
Y23CABNC08	6/25/2014 15:03		0.003	0.003	0.003	0.002		0.085	0.083	0.085	0.17	317
Y23CABNC08	8/13/2014 13:22	0.454	0.002	0.002	0.002	0.001		0.11	0.105	0.11	0.058	350
Y23CABNC08	10/24/2014 14:30	0.707	0.001	0.001	0.001	0.002		0.094	0.09	0.095	0.096	380
Y23CABNC08	4/29/2015 19:30	0.463	0.001			0.002		0.046			0.051	
Y23CABNC08	6/18/2015 18:56	2.28	0.002			0.003	4.77	0.068			0.077	
Y23CABNC08	8/6/2015 9:17	0.345	0.001			0.002		0.063			0.066	
Y23CABNC08	10/21/2015 14:42	0.33	0.002			0.002		0.075			0.075	410
Y23CABNC08	6/23/2016 16:07	57.8	0.003			0.027	6.85	0.05			0.369	280
Y23CABNC08	8/25/2016 8:22	2.59	0.002			0.003		0.079			0.092	290
Y23CABNC08	10/5/2016 14:38	216	0.002			0.063		0.041			1.21	200
Y23CEDRC04	4/22/2013 9:00					0.049	6.07				1.52	90.2
Y23CEDRC04	6/24/2013 9:16					0.073	6.74				2.33	104
Y23CEDRC04	8/5/2013 9:35					0.067	6.06				2.94	121
Y23CEDRC04	10/21/2013 15:00					0.088	4.77				3.71	250
Y23CEDRC04	10/21/2013 15:00					0.028	5.66				0.559	198
Y23CEDRC04	4/16/2014 8:00		0.001			0.002	9.33	0.043			0.05	173
Y23CEDRC04	4/16/2014 8:00		0.001	0.001		0.001	9.26	0.043	0.04		0.049	174
Y23CEDRC04	6/25/2014 13:05		0.002	0.002	0.002	0.002		0.059	0.059	0.057	0.067	195
Y23CEDRC04	8/13/2014 11:14	3.91	0.002	0.002	0.002	0.004		0.067	0.064	0.063	0.095	340

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15	0.515	0.001	0.001	0.001	0.002		0.073	0.072	0.072	0.077	280
Y23CEDRC04	4/30/2015 8:45	0.534	0.002			0.002		0.049			0.053	
Y23CEDRC04	6/19/2015 17:37	33.8	0.002			0.012	10.7	0.081			0.341	
Y23CEDRC04	8/5/2015 15:48	5.3	0.003			0.004		0.066			0.104	
Y23CEDRC04	10/21/2015 12:56	0.56	0.003			0.003		0.053			0.061	400
Y23CEDRC04	6/22/2016 20:21	0.688	0.003			0.003	9.64	0.098			0.107	210
Y23CEDRC04	8/24/2016 14:24	6.55	0.003			0.004		0.126			0.167	260
Y23CEDRC04	10/5/2016 12:33	324				0.088					1.76	230
M51CHLYC04	6/13/2012 13:53					0.014	12				0.026	532
M51CHLYC04	7/11/2012 18:00					0.035	9.53				0.022	274
M51CHLYC04	10/17/2012 16:10					0.013	4.57				0.029	766
M51CHLYC04	4/23/2013 11:30					0.003	6.89				0.055	267
M51CHLYC04	6/25/2013 12:12					0.005	9.34				0.089	341
M51CHLYC04	8/6/2013 16:25					0.01	6.48				0.028	183
M51CHLYC04	10/23/2013 11:30					0.004	7.55				0.025	654
M51CHLYC04	4/15/2014 11:13		0.005	0.005		0.006	9.48	0.013	0.014		0.02	465
M51CHLYC04	6/24/2014 10:47		0.009	0.009	0.009	0.009		0.007	0.007	0.006	0.007	452
M51CHLYC04	8/12/2014 10:32	0.117	0.027	0.026	0.025	0.028		0.038	0.036	0.037	0.041	960
M51CHLYC04	10/23/2014 10:00	0.131	0.007	0.007	0.007	0.008		0.028	0.028	0.029	0.031	930
M51CHLYC04	4/28/2015 11:00	0.362	0.004			0.005		0.045			0.054	
M51CHLYC04	6/17/2015 11:22	0.076	0.007			0.006	6.54	0.027			0.026	
M51CHLYC04	8/4/2015 10:42	0.23	0.013			0.014		0.019			0.022	
M51CHLYC04	10/20/2015 10:09	0.386	0.005			0.005		0.034			0.039	1000
M51CHLYC04	6/21/2016 12:56	0.199	0.011			0.012	8.32	0.032			0.036	740
M51CHLYC04	8/23/2016 10:31	0.216	0.011			0.011		0.02			0.029	720
M51CHLYC04	10/4/2016 9:35	0.958	0.005			0.005		0.034			0.042	560
M51CHLYC05	6/13/2012 15:49					0.004	4.7				0.09	441

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30					0.004	5.67				0.046	811
M51CHLYC05	10/17/2012 14:23	11.8				0.029	4.72				0.657	284
M51CHLYC05	4/23/2013 9:52					0.003	5.27				0.081	382
M51CHLYC05	6/25/2013 10:24					0.005	5.15				0.103	398
M51CHLYC05	8/6/2013 14:56					0.017	4.88				0.346	399
M51CHLYC05	10/23/2013 9:50					0.003	4.16				0.031	511
M51CHLYC05	4/15/2014 9:45		0.003	0.003		0.004	4.13	0.016	0.016		0.021	445
M51CHLYC05	6/24/2014 9:11		0.003	0.004	0.004	0.004		0.061	0.06	0.062	0.073	528
M51CHLYC05	8/12/2014 8:58	4.04	0.003	0.004	0.003	0.005		0.063	0.072	0.063	0.104	980
M51CHLYC05	10/23/2014 9:00	2.04	0.003	0.003	0.003	0.004		0.036	0.035	0.036	0.047	1000
M51CHLYC05	4/28/2015 9:51	1.74	0.005			0.005		0.067			0.077	
M51CHLYC05	6/17/2015 9:21	0.74	0.006			0.005	5.48	0.045			0.045	
M51CHLYC05	8/4/2015 9:20	0.73	0.003			0.003		0.024			0.03	
M51CHLYC05	10/20/2015 8:54	0.383	0.002			0.002		0.027			0.03	1100
M51CHLYC05	6/21/2016 10:43	13	0.003			0.007	5.95	0.147			0.188	600
M51CHLYC05	8/23/2016 9:08	1.38	0.005			0.005		0.043			0.048	870
M51CHLYC05	10/4/2016 8:22	331						0.097			2.17	230
Y23DRMFC01	6/24/2014 19:41		0.005	0.005	0.005	0.01		0.041	0.041	0.045	0.045	617
Y23DRMFC01	8/13/2014 9:06	0.251	0.012	0.013	0.011	0.015		0.042	0.041	0.042	0.05	900
Y23DRMFC01	8/13/2014 9:06	0.247	0.012	0.012	0.011	0.015		0.042	0.041	0.041	0.051	880
Y23DRMFC01	10/24/2014 8:20	0.497	0.003	0.003	0.004	0.004	12.6	0.037	0.037	0.037	0.042	690
Y23DRMFC01	4/29/2015 11:00	0.067	0.002			0.002		0.048			0.052	
Y23DRMFC01	4/29/2015 11:00	0.059	0.002			0.002		0.048			0.051	
Y23DRMFC01	6/19/2015 12:00	0.04	0.007			0.007	9.25	0.045			0.048	
Y23DRMFC01	8/5/2015 12:14											
Y23DRMFC01	10/21/2015 9:58	0.138	0.003			0.005		0.032			0.034	760
Y23DRMFC01	10/21/2015 10:08	0.147	0.003			0.005		0.031			0.034	760

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150 0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47											
Y23DRMFC01	8/24/2016 12:10											
Y23DEERC01	6/25/2014 8:11		0.002	0.002	0.002	0.002		0.033	0.033	0.033	0.039	484
Y23DEERC01	6/25/2014 8:11		0.002	0.002	0.002	0.002		0.033	0.033	0.033	0.039	490
Y23DEERC01	8/13/2014 7:14	0.533	0.001	0.001	0.001	0.001		0.03	0.029	0.029	0.034	660
Y23DRSFC01	10/24/2014 9:54	0.46	0.002	0.002	0.002	0.002	3.15	0.041	0.041	0.042	0.045	770
Y23DRSFC01	10/24/2014 9:54	0.678	0.002	0.002	0.002	0.003	3.25	0.041	0.043	0.043	0.048	780
Y23DRSFC01	4/29/2015 12:15	0.012	0.002			0.002		0.045			0.045	
Y23DRSFC01	6/19/2015 14:02	ND	0.008			0.007	6.05	0.066			0.062	
Y23DRSFC01	8/5/2015 13:24	0.057	0.064			0.06		0.059			0.055	
Y23DRSFC01	10/21/2015 11:30											
Y23DRSFC01	6/22/2016 16:56		0.048			0.05	8.07	0.038			0.043	300
Y23DRSFC01	8/24/2016 12:54											
Y23DRSFC01	10/5/2016 11:00											
M51FORMC04	4/23/2013 16:30					0.003	5.8				0.058	298
M51FORMC04	6/25/2013 14:13					0.007	3.53				0.056	403
M51FORMC04	6/25/2013 14:13					0.006	4.24				0.056	398
M51FORMC04	10/23/2013 13:58					0.003	7.28				0.037	596
M51FORMC04	4/15/2014 15:00		0.004	0.004		0.006	3.95	0.024	0.024		0.035	490
M51FORMC04	6/24/2014 13:53		0.007	0.007	0.007	0.007		0.018	0.018	0.019	0.02	391
M51FORMC04	8/12/2014 13:40	0.61	0.127	0.122	0.126	0.128		0.042	0.039	0.036	0.099	1100
M51FORMC04	10/23/2014 12:30	0.501	0.004	0.005	0.004	0.006		0.046	0.046	0.046	0.052	700
M51FORMC04	4/28/2015 19:15	1.03	0.003			0.004		0.038			0.051	
M51FORMC04	4/28/2015 19:15	0.817	0.003			0.004		0.039			0.049	
M51FORMC04	6/17/2015 17:57	0.509	0.01			0.009	10.1	0.032			0.033	
M51FORMC04	8/5/2015 8:38	1.49	0.081			0.093		0.133			0.077	
M51FORMC04	10/20/2015 18:31	0.212	0.005			0.006		0.034			0.038	770

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	0.282	0.016			0.021	10.8	0.032			0.039	510
M51FORMC04	8/24/2016 8:09	0.454	0.039			0.04		0.037			0.051	690
M51FORMC04	10/4/2016 16:03	1.62	0.007			0.009		0.034			0.052	750
Y23FXEFC01	10/23/2014 14:10	0.055	0.004	0.004	0.004	0.007	3.98	0.02	0.02	0.02	0.021	810
Y23FXEFC02	4/29/2015 9:00	ND	0.002			0.002		0.044			0.043	
Y23FXEFC02	6/18/2015 14:02	0.103	0.004			0.004	5.7	0.019			0.021	
Y23FXEFC02	8/5/2015 10:16	0.08	0.034			0.035		0.047			0.049	
Y23FXEFC02	10/21/2015 7:35	0.297	0.013			0.014		0.073			0.081	760
Y23FXEFC02	6/22/2016 11:22	1.83	0.003			0.008	11.9	0.019			0.079	220
Y23FXEFC02	6/22/2016 11:22	1.49	0.003			0.007	10.6	0.018			0.069	210
Y23FXEFC02	8/24/2016 9:58	0.672	0.012			0.012		0.211			0.222	770
Y23FXEFC02	10/5/2016 7:55	0.244	0.005			0.006		0.065			0.074	480
Y23FXEFC02	10/5/2016 7:55	0.246	0.005			0.006		0.064			0.073	480
Y27LBVRC13	4/22/2013 16:30					0.003	6.49				0.06	362
Y27LBVRC13	6/24/2013 16:56					0.003	5.86				0.128	317
Y27LBVRC13	8/5/2013 17:05					0.005	6.32				0.141	126
Y27LBVRC13	10/22/2013 13:40					0.002	8.32				0.068	344
Y27LBVRC13	4/16/2014 16:00		0.002	0.002		0.002	5.88	0.053	0.054		0.062	344
Y27LBVRC13	6/25/2014 18:35		0.003	0.003	0.003	0.004		0.064	0.064	0.065	0.089	385
Y27LBVRC13	8/13/2014 16:26	1.46	0.002	0.002	0.002	0.003		0.056	0.057	0.056	0.079	460
Y27LBVRC13	10/24/2014 16:50	0.167	0.002	0.001	0.001	0.002		0.047	0.046	0.047	0.049	480
Y27LBVRC13	4/29/2015 15:40	1.29	0.002			0.002		0.053			0.069	
Y27LBVRC13	8/6/2015 13:52	1.74	0.002			0.003	6	0.062			0.08	
Y27LBVRC13	10/21/2015 17:07	0.877	0.002			0.002		0.059			0.069	490
Y27LBVRC13	6/23/2016 20:42	1.28	0.003			0.004	12.1	0.049			0.067	480
Y27LBVRC13	8/25/2016 12:59	4.44	0.004			0.005		0.053			0.116	460
Y27LBVRC13	10/6/2016 7:43	5.89	0.002			0.004		0.065			0.105	400

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38					0.004	4.59				0.154	159
M42LBOXC05	7/10/2012 19:05					0.004	3.82				0.094	203
M42LBOXC05	10/16/2012 9:20					0.002	3.35				0.082	271
M42LBOXC06	4/23/2013 10:40					0.001	3.32				0.066	188
M42LBOXC06	4/23/2013 10:40					0.001	3.58				0.067	192
M42LBOXC06	6/17/2013 17:15					0.004	3.3				0.136	179
M42LBOXC06	8/18/2013 17:45					0.003	4.08				0.074	218
M42LBOXC06	10/7/2013 16:15					0.002	3.39				0.07	264
M42LBOXC05	4/14/2014 15:30		0.001	0.001		0.002	3.56	0.05	0.05		0.064	190
M42LBOXC05	6/23/2014 14:30		0.002	0.002		0.003		0.065	0.066		0.091	213
M42LBOXC06	8/11/2014 14:10	0.617	0.003	0.004	0.003	0.004		0.085	0.087	0.084	0.094	380
M42LBOXC05	10/22/2014 13:30	0.392	0.002	0.002	0.002	0.003		0.066	0.065	0.065	0.072	350
M42LBOXC05	4/27/2015 15:15	0.628	0.002			0.002		0.065			0.075	
M42LBOXC05	6/16/2015 14:23	2.23	0.003			0.004	5.12	0.079			0.1	
M42LBOXC05	6/16/2015 14:24	2.06	0.003			0.004	5.58	0.081			0.102	
M42LBOXC05	8/3/2015 16:33	1.35	0.003			0.004		0.066			0.083	
M42LBOXC05	8/3/2015 16:47	1.42	0.003			0.004		0.068			0.085	
M42LBOXC05	10/19/2015 13:00	0.315	0.002			0.003		0.07			0.076	410
M42LBOXC05	6/20/2016 16:01	1.86	0.002			0.003	6.77	0.065			0.094	250
M42LBOXC05	8/22/2016 15:43	0.804	0.003			0.003		0.079			0.086	330
M42LBOXC05	10/3/2016 13:05	0.723	0.002			0.003		0.076			0.083	350
M50MEDL01	4/28/2015 17:15	1.51	0.012			0.014		0.043			0.067	
M50MEDL01	6/18/2015 9:44	0.455	0.017			0.016	8.4	0.041			0.044	
M50MEDL01	6/18/2015 10:01	0.326	0.017			0.016	8.49	0.039			0.044	
M50MEDL01	8/4/2015 14:00	2.96	0.021			0.021		0.046			0.081	
M50MEDL01	8/4/2015 14:12	3.62	0.022			0.021		0.049			0.092	
M50MEDL01	10/20/2015 16:08	1.76	0.022			0.023		0.039			0.062	590

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18	1.77	0.022			0.024		0.039			0.062	600
M50MEDL01	6/23/2016 9:08	1.06	0.02			0.02	7.68	0.042			0.059	660
M50MEDL01	6/23/2016 9:08	1.24	0.019			0.019	7.82	0.042			0.06	670
M50MEDL01	8/23/2016 17:36	1.76	0.027			0.025		0.032			0.055	650
M50MEDL01	8/23/2016 17:36	1.72	0.028			0.026		0.032			0.055	650
M50MEDL01	10/4/2016 12:24	2.04	0.027			0.023		0.041			0.063	770
M50MEDL01	10/4/2016 12:24	1.92	0.027			0.022		0.042			0.061	750
Y22PENELC02	4/22/2013 12:40					0.003	5.91				0.089	126
Y22PENELC02	6/24/2013 13:18					0.022	5.33				0.382	120
Y22PENELC02	8/5/2013 15:05					0.004	5.39				0.068	132
Y22PENELC02	10/22/2013 10:26					0.002	7.2				0.06	242
Y22PENELC02	4/16/2014 13:30		0.001	0.001		0.002	6.05	0.083	0.079		0.09	377
Y22PENELC02	6/25/2014 16:55		0.002	0.002	0.002	0.003		0.027	0.026	0.027	0.032	373
Y22PENELC02	8/13/2014 14:40	0.485	0.002	0.002	0.002	0.002		0.033	0.033	0.032	0.038	650
Y22PENELC02	10/24/2014 15:56	0.637	0.002	0.001	0.002	0.002		0.042	0.046	0.042	0.047	710
Y22PENELC02	4/29/2015 18:15	0.163	0.002			0.002		0.058			0.057	
Y22PENELC02	6/18/2015 20:42	0.682	0.003			0.004	8.57	0.062			0.063	
Y22PENELC02	8/6/2015 10:50	0.796	0.007			0.007		0.037			0.041	
Y22PENELC02	10/21/2015 15:46	0.88	0.003			0.004		0.023			0.03	410
Y22PENELC02	6/23/2016 18:27	0.589	0.003			0.004	7.38	0.047			0.051	340
Y22PENELC02	8/25/2016 10:11	1.09	0.004			0.005		0.055			0.07	410
Y22PENELC02	10/5/2016 15:48	6.69	0.003			0.005		0.064			0.088	280
Y22SNSTC04	4/22/2013 14:15					0.002	4.26				0.022	176
Y22SNSTC04	6/24/2013 15:00					0.005	3.22				0.137	98.7
Y22SNSTC04	8/6/2013 8:40					0.003	2.87				0.079	199
Y22SNSTC04	10/22/2013 11:51					0.004	3.74				0.033	222
Y22SNSTC04	4/16/2014 18:00		0.001	0.001		0.002	2.23	0.034	0.032		0.045	240

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20		0.003	0.003	0.003	0.004		0.051	0.052	0.052	0.068	421
Y22SNSTC04	8/13/2014 17:53	0.65	0.006	0.006	0.006	0.006		0.046	0.049	0.045	0.055	580
Y22SNSTC04	10/24/2014 18:15	0.941	0.002	0.002	0.002	0.002		0.036	0.037	0.037	0.045	470
Y22SNSTC04	4/29/2015 17:15	1.86	0.001			0.002		0.049			0.067	
Y22SNSTC04	6/19/2015 7:51	3.2	0.003			0.004	4.99	0.057			0.081	
Y22SNSTC04	8/6/2015 11:51	1.05	0.002			0.003		0.053			0.064	
Y22SNSTC04	10/22/2015 7:35	0.917	0.001			0.002		0.035			0.042	620
Y22SNSTC04	6/24/2016 8:20	1.43	0.002			0.003	4.32	0.037			0.054	530
Y22SNSTC04	8/25/2016 11:23	1.89	0.002			0.003		0.048			0.068	530
Y22SNSTC04	10/6/2016 9:20	2.75	0.001			0.002		0.056			0.075	220
M52ULDSP01	4/28/2015 14:45	0.6	0.028				0.032	0.045			0.059	
M52ULDSP01	8/4/2015 16:22	1.84	0.032			0.035	10	0.064			0.075	
M52ULDSP01	10/20/2015 13:46	0.734	0.021				0.03	0.06			0.072	330
M52ULDSP01	8/23/2016 14:40	0.09	0.074				0.096	0.074			0.076	120
M52ULDSP01	8/23/2016 14:40	0.06	0.078			0.091	4.3	0.072			0.073	120
M39WHTWC09	7/11/2012 10:00					0.027	6.65				0.054	498
M39WHTWC09	10/16/2012 13:15					0.023	8.94				0.08	681
M39WHTWC09	4/23/2013 15:15					0.003	8.26				0.052	208
M39WHTWC09	6/18/2013 11:20											
M39WHTWC09	6/18/2013 11:30					0.008	3.71				0.089	234
M39WHTWC09	8/19/2013 11:30					0.019	5.85				0.063	441
M39WHTWC09	10/8/2013 10:45					0.007	6.89				0.006	585
M39WHTWC09	4/14/2014 19:00		0.003	0.003		0.004	3.98	0.049	0.048		0.06	233
M39WHTWC09	6/23/2014 17:43		0.005	0.005		0.007		0.042	0.043		0.05	516
M39WHTWC09	8/11/2014 17:10	0.427	0.029	0.029	0.029	0.03		0.03	0.03	0.03	0.044	300
M39WHTWC09	10/22/2014 18:45	0.111	0.006	0.006	0.006	0.007		0.089	0.084	0.088	0.093	680
M39WHTWC09	4/27/2015 18:30	0.073	0.003			0.003		0.059			0.059	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150						
						0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	1.04	0.004			0.005	6.86	0.101			0.11	
M39WHTWC09	8/3/2015 19:11	1.35	0.005			0.006		0.106			0.125	
M39WHTWC09	10/19/2015 15:46	1.61	0.029			0.029		0.054			0.073	870
M39WHTWC09	6/20/2016 20:17	1.08	0.006			0.007	6.37	0.147			0.175	420
M39WHTWC09	8/22/2016 18:40	0.815	0.005			0.005		0.185			0.194	580
M39WHTWC09	10/3/2016 15:59	2.38	0.005			0.007		0.138			0.163	550
M39WHTWC10	6/12/2012 18:33					0.016	5.09				0.091	603
M17WILOC03	4/22/2013 18:20					0.002	3.58				0.036	254
M17WILOC03	6/17/2013 13:30					0.004	6.82				0.045	301
M17WILOC03	6/17/2013 13:30					0.003	7.19				0.044	305
M17WILOC03	8/18/2013 13:55					0.005	6.88				0.024	260
M17WILOC03	8/18/2013 13:55					0.005	7.97				0.021	259
M17WILOC03	10/7/2013 12:50					0.004	4				0.028	400
M17WILOC03	10/7/2013 13:00					0.003	4.6				0.024	401
M17WILOC02	6/12/2012 10:45					0.003	5.75				0.029	377
M17WILOC02	6/18/2012 11:23											
M17WILOC02	6/18/2012 11:25											
M17WILOC02	7/10/2012 15:50					0.006	6.6				0.046	328
M17WILOC02	10/15/2012 16:37					0.006	7.46				0.018	274
M17WILOC02	8/11/2014 10:45	0.138	0.017	0.018	0.018	0.019		0.028	0.028	0.028	0.032	290
M17WILOC04	4/14/2014 11:35		0.002	0.002		0.002	4.74	0.03	0.03		0.035	237
M17WILOC04	6/23/2014 11:30		0.003	0.004		0.004		0.027	0.027		0.03	387
M17WILOC04	10/22/2014 10:15	0.114	0.002	0.002	0.002	0.003		0.017	0.016	0.017	0.021	550
M17WILOC04	4/27/2015 12:00	0.067	0.002			0.002		0.031			0.035	
M17WILOC04	6/16/2015 10:28	0.03	0.003			0.003	10.2	0.02			0.021	
M17WILOC04	8/3/2015 14:10	0.544	0.006			0.007		0.032			0.043	
M17WILOC04	10/19/2015 10:08	1.56	0.007			0.01		0.034			0.063	530

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Aluminum~~ Total Recoverable	Arsenic Dissolved	Arsenic Dissolved	Arsenic Dissolved	Arsenic Total Recoverable	Arsenic Total Recoverable Dry	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Dissolved	Barium~~ Total Recoverable	Bicarbonate as HCO3~~ Total
						0.340/0.150 0.01					1	
		mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	0.022	0.003			0.004	11.1	0.026			0.028	480
M17WILOC04	8/22/2016 12:46	0.756	0.007			0.009		0.032			0.04	210
M17WILOC04	10/3/2016 10:29	0.18	0.01			0.011		0.02			0.023	320
M17WLWFC01	6/12/2012 11:45											

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
Y23BENPC03	4/23/2013 18:00				0.17	ND				ND	0.376	97.9
Y23BENPC03	6/25/2013 16:30				0.24	0.2				ND	0.37	88.1
Y23BENPC03	8/7/2013 10:32				0.22	ND				0.00009	0.33	49.6
Y23BENPC03	8/7/2013 10:32				0.22	0.07				0.00009	0.3	49.6
Y23BENPC03	10/23/2013 15:30				0.2	ND				0.00007	0.38	86.9
Y23BENPC03	4/15/2014 18:13	0.12	0.12		0.12	ND	ND	ND		0.00011	0.36	72.1
Y23BENPC03	6/24/2014 16:36	0.23	0.23	0.24	0.26	0.1	ND	ND	ND	5.00E-05		
Y23BENPC03	8/12/2014 15:11	0.3	0.28	0.31	0.28	ND	ND	0.00004	ND	0.00005		
Y23BENPC03	10/23/2014 15:35	0.24	0.23	0.23	0.25	0.2	ND	ND	ND	ND		
M50BMDYC11	7/12/2012 9:30				1.15	ND				ND	0.32	47.1
M50BMDYC11	7/12/2012 9:45											
M50BMDYC11	10/17/2012 11:00				1.41	0.31				ND	0.26	53
M50BMDYC11	10/17/2012 11:15				1.42	0.28				ND		52.5
M50BMDYC11	4/23/2013 13:30				0.22	ND				ND		42.6
M50BMDYC11	4/23/2013 13:30				0.22	ND				0.00003		43.1
M50BMDYC11	6/25/2013 8:16				0.71	ND				0.00007	0.28	60.8
M50BMDYC11	8/6/2013 13:03				0.79	0.11				0.00005	0.25	70.9
M50BMDYC11	10/23/2013 7:50				0.75	ND				0.00004	0.29	84.1
M50BMDYC11	4/15/2014 12:34	0.55	0.54		0.57	ND	ND	ND		0.00004	0.27	46.4
M50BMDYC11	6/24/2014 12:11	0.78	0.77	0.78	0.84	0.18	ND	ND	ND	6.00E-05		
M50BMDYC11	8/12/2014 11:40	1.04	0.96	1.05	1	ND	ND	ND	ND	0.00007		
M50BMDYC11	10/23/2014 11:15	0.91	0.9	0.94	0.95	0.19	ND	ND	ND	ND		
M50BMDYC11	4/28/2015 12:15	0.65			0.61	ND	ND			0.00005		
M50BMDYC11	6/17/2015 13:21	0.83			0.77	ND	ND			0.00006	0.2	
M50BMDYC11	8/4/2015 12:15	0.96			0.94	0.08	ND			0.00006		
M50BMDYC11	10/20/2015 11:24	1.29			1.24	0.12	ND			0.00004		
M50BMDYC11	6/21/2016 15:42	0.82			0.9	0.22	ND			0.00004	0.268	

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M50BMDYC11	8/23/2016 12:09	0.86			0.86	0.28	ND			0.0001		
M50BMDYC11	10/4/2016 10:45	0.76			0.79	0.29	ND			0.00004		
M50BMDYC12	6/13/2012 18:32				1.2	ND			ND		0.26	71.4
Y23CABNC08	4/22/2013 11:16				0.19	ND				0.00207	0.34	46.3
Y23CABNC08	6/24/2013 11:34				0.36	0.03				0.00472	0.34	85.5
Y23CABNC08	8/5/2013 13:10				0.32	0.07				0.0028	0.27	78
Y23CABNC08	10/22/2013 8:54				0.33	0.54				0.00055	0.39	87.5
Y23CABNC08	4/16/2014 12:05	0.23	0.24		0.24	0.53	ND	ND		0.00005	0.34	111
Y23CABNC08	6/25/2014 15:03	0.54	0.54	0.52	0.58	1	0.00004	0.00003	5.00E-05	5.00E-05		
Y23CABNC08	8/13/2014 13:22	0.25	0.25	0.25	0.14	ND	ND	0.00004	ND	0.00003		
Y23CABNC08	10/24/2014 14:30	0.38	0.36	0.39	0.37	1	ND	0.00003	ND	0.00004		
Y23CABNC08	4/29/2015 19:30	0.57			0.52	2	ND			ND		
Y23CABNC08	6/18/2015 18:56	0.42			0.37	0.29	ND			0.00014	0.6	
Y23CABNC08	8/6/2015 9:17	0.39			0.38	0.8	ND			0.00004		
Y23CABNC08	10/21/2015 14:42	0.37			0.36	5.2	ND			ND		
Y23CABNC08	6/23/2016 16:07	0.1			0.16	0.09	0.00005			0.00111	0.368	
Y23CABNC08	8/25/2016 8:22	0.25			0.25	0.16	ND			0.00005		
Y23CABNC08	10/5/2016 14:38	0.09			0.33	ND	0.00004			0.0031		
Y23CEDRC04	4/22/2013 9:00				0.26	ND				0.00243	0.313	58.9
Y23CEDRC04	6/24/2013 9:16				0.7	0.09				0.00528	0.42	160
Y23CEDRC04	8/5/2013 9:35				0.47	0.06				0.00708	0.29	151
Y23CEDRC04	10/21/2013 15:00				0.73	ND				0.01031	0.51	248
Y23CEDRC04	10/21/2013 15:00				0.27	ND				0.00206	0.41	62.4
Y23CEDRC04	4/16/2014 8:00	0.22			0.22	ND	ND			0.00004	0.26	104
Y23CEDRC04	4/16/2014 8:00	0.22	0.22		0.22	ND	ND	ND		0.00003	0.28	105
Y23CEDRC04	6/25/2014 13:05	0.32	0.31	0.33	0.33	0.09	0.00004	ND	3.00E-05	5.00E-05		
Y23CEDRC04	8/13/2014 11:14	0.65	0.66	0.68	0.67	ND	ND	ND	ND	0.00046		

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
Y23CEDRC04	10/24/2014 12:15	0.27	0.25	0.26	0.25	0.3	ND	ND	ND	ND		
Y23CEDRC04	4/30/2015 8:45	0.42			0.4	0.3	ND			0.00004		
Y23CEDRC04	6/19/2015 17:37	0.26			0.27	ND	ND			0.00036	0.2	
Y23CEDRC04	8/5/2015 15:48	0.23			0.23	ND	ND			0.0001		
Y23CEDRC04	10/21/2015 12:56	0.37			0.38	ND	ND			0.00004		
Y23CEDRC04	6/22/2016 20:21	0.23			0.26	0.09	ND			0.00003	0.326	
Y23CEDRC04	8/24/2016 14:24	0.17			0.17	ND	ND			0.00009		
Y23CEDRC04	10/5/2016 12:33				0.42	ND				0.00455		
M51CHLYC04	6/13/2012 13:53				1.36	0.51				ND	0.36	51.7
M51CHLYC04	7/11/2012 18:00				0.76	ND				ND	0.26	41.6
M51CHLYC04	10/17/2012 16:10				1.38	0.72				ND	0.22	109
M51CHLYC04	4/23/2013 11:30				0.33	ND				ND	0.268	108
M51CHLYC04	6/25/2013 12:12				0.64	ND				ND	0.27	146
M51CHLYC04	8/6/2013 16:25				0.82	0.2				0.00003	0.28	55.6
M51CHLYC04	10/23/2013 11:30				0.86	ND				ND	0.31	134
M51CHLYC04	4/15/2014 11:13	0.49	0.49		0.51	ND	ND	ND		ND	0.3	92
M51CHLYC04	6/24/2014 10:47	1.02	1.01	1	1.08	0.14	0.00004	ND	3.00E-05	ND		
M51CHLYC04	8/12/2014 10:32	1.12	1.01	1.09	1.03	ND	ND	ND	ND	ND		
M51CHLYC04	10/23/2014 10:00	0.98	0.93	1	0.97	ND	ND	ND	ND	ND		
M51CHLYC04	4/28/2015 11:00	0.72			0.72	ND	ND			ND		
M51CHLYC04	6/17/2015 11:22	1.02			0.92	ND	ND			ND	0.3	
M51CHLYC04	8/4/2015 10:42	0.76			0.74	ND	ND			ND		
M51CHLYC04	10/20/2015 10:09	0.87			0.87	0.1	ND			ND		
M51CHLYC04	6/21/2016 12:56	1.23			1.35	0.3	ND			0.00008	0.298	
M51CHLYC04	8/23/2016 10:31	0.57			0.54	ND	ND			ND		
M51CHLYC04	10/4/2016 9:35	0.72			0.72	ND	ND			ND		
M51CHLYC05	6/13/2012 15:49				0.66	ND				ND	0.28	53.7

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M51CHLYC05	7/11/2012 16:30				0.54	ND				ND	0.29	86.2
M51CHLYC05	10/17/2012 14:23				0.26	ND				0.00199	0.25	68.3
M51CHLYC05	4/23/2013 9:52				0.38	ND				0.00004	0.271	131
M51CHLYC05	6/25/2013 10:24				0.52	0.03				0.00012	0.26	102
M51CHLYC05	8/6/2013 14:56				0.58	0.11				0.0007	0.27	71.8
M51CHLYC05	10/23/2013 9:50				0.74	0.32				ND	0.25	74.6
M51CHLYC05	4/15/2014 9:45	0.34	0.35		0.36	ND	ND	ND		ND	0.24	75
M51CHLYC05	6/24/2014 9:11	0.73	0.73	0.75	0.8	0.15	0.00005	ND	ND	4.00E-05		
M51CHLYC05	8/12/2014 8:58	0.57	0.46	0.5	0.48	ND	ND	0.00004	ND	0.00009		
M51CHLYC05	10/23/2014 9:00	0.84	0.81	0.79	0.83	0.1	ND	ND	ND	0.00005		
M51CHLYC05	4/28/2015 9:51	0.65			0.66	ND	ND			0.00004		
M51CHLYC05	6/17/2015 9:21	1			0.89	ND	ND			ND	0.3	
M51CHLYC05	8/4/2015 9:20	0.54			0.54	ND	ND			0.00006		
M51CHLYC05	10/20/2015 8:54	0.45			0.43	ND	ND			ND		
M51CHLYC05	6/21/2016 10:43	0.49			0.58	0.1	ND			0.0002	0.312	
M51CHLYC05	8/23/2016 9:08	0.4			0.42	ND	ND			ND		
M51CHLYC05	10/4/2016 8:22				0.33	ND				0.00488		
Y23DRMFC01	6/24/2014 19:41	0.27	0.27	0.27	0.28	ND	ND	ND	ND	3.00E-05		
Y23DRMFC01	8/13/2014 9:06	0.36	0.32	0.33	0.34	ND	ND	ND	ND	ND		
Y23DRMFC01	8/13/2014 9:06	0.35	0.32	0.35	0.34	ND	ND	ND	ND	ND		
Y23DRMFC01	10/24/2014 8:20	0.19	0.2	0.21	0.2	ND	ND	ND	ND	ND	0.22	
Y23DRMFC01	4/29/2015 11:00	0.16			0.14	ND	ND			ND		
Y23DRMFC01	4/29/2015 11:00	0.16			0.15	ND	ND			ND		
Y23DRMFC01	6/19/2015 12:00	0.27			0.26	0.06	ND			ND	0.2	
Y23DRMFC01	8/5/2015 12:14											
Y23DRMFC01	10/21/2015 9:58	0.21			0.21	ND	ND			ND		
Y23DRMFC01	10/21/2015 10:08	0.22			0.21	ND	ND			ND		

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
Y23DRMFC01	6/22/2016 15:47											
Y23DRMFC01	8/24/2016 12:10											
Y23DEERC01	6/25/2014 8:11	0.23	0.24	0.23	0.25	ND	ND	ND	ND	ND		
Y23DEERC01	6/25/2014 8:11	0.24	0.24	0.23	0.25	ND	ND	ND	ND	ND		
Y23DEERC01	8/13/2014 7:14	0.28	0.26	0.27	0.26	ND	ND	ND	ND	ND		
Y23DRSFC01	10/24/2014 9:54	0.36	0.36	0.36	0.36	0.2	ND	ND	ND	0.00011	0.22	
Y23DRSFC01	10/24/2014 9:54	0.35	0.36	0.36	0.36	0.2	ND	ND	ND	ND	0.19	
Y23DRSFC01	4/29/2015 12:15	0.22			0.18	ND	ND			ND		
Y23DRSFC01	6/19/2015 14:02	0.34			0.33	ND	ND			ND	0.2	
Y23DRSFC01	8/5/2015 13:24	0.52			0.46	ND	ND			ND		
Y23DRSFC01	10/21/2015 11:30											
Y23DRSFC01	6/22/2016 16:56	0.54			0.63	ND	ND			0.00003	0.26	
Y23DRSFC01	8/24/2016 12:54											
Y23DRSFC01	10/5/2016 11:00											
M51FORMC04	4/23/2013 16:30				0.15	ND				ND	0.339	118
M51FORMC04	6/25/2013 14:13				0.28	ND				ND	0.32	153
M51FORMC04	6/25/2013 14:13				0.27	ND				ND	0.36	155
M51FORMC04	10/23/2013 13:58				0.3	ND				ND	0.34	138
M51FORMC04	4/15/2014 15:00	0.24	0.24		0.25	ND	ND	ND		0.00003	0.35	126
M51FORMC04	6/24/2014 13:53	0.29	0.32	0.32	0.32	ND	ND	ND	3.00E-05	ND		
M51FORMC04	8/12/2014 13:40	0.53	0.5	0.54	0.5	ND	ND	ND	ND	0.00007		
M51FORMC04	10/23/2014 12:30	0.36	0.35	0.37	0.37	0.2	ND	ND	ND	ND		
M51FORMC04	4/28/2015 19:15	0.28			0.25	ND	ND			0.00004		
M51FORMC04	4/28/2015 19:15	0.29			0.25	ND	ND			0.00003		
M51FORMC04	6/17/2015 17:57	0.54			0.45	ND	ND			ND	0.3	
M51FORMC04	8/5/2015 8:38	0.57			0.54	ND	ND			0.00006		
M51FORMC04	10/20/2015 18:31	0.3			0.29	0.1	ND			ND		

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M51FORMC04	6/22/2016 8:09	0.34			0.38	0.1	ND			0.00003	0.364	
M51FORMC04	8/24/2016 8:09	0.46			0.43	ND	ND			ND		
M51FORMC04	10/4/2016 16:03	0.33			0.33	ND	ND			0.00003		
Y23FXEFC01	10/23/2014 14:10	1.49	1.49	1.55	1.51	ND	ND	ND	ND	ND	0.14	
Y23FXEFC02	4/29/2015 9:00	0.61			0.63	ND	ND			ND		
Y23FXEFC02	6/18/2015 14:02	1.11			0.95	0.06	ND			ND	0.2	
Y23FXEFC02	8/5/2015 10:16	1.24			1.18	0.2	ND			ND		
Y23FXEFC02	10/21/2015 7:35	1.57			1.51	0.2	ND			ND		
Y23FXEFC02	6/22/2016 11:22	1.13			1.22	0.1	ND			0.00006	0.347	
Y23FXEFC02	6/22/2016 11:22	1.13			1.27	0.1	ND			0.00005	0.262	
Y23FXEFC02	8/24/2016 9:58	1.42			1.41	0.3	ND			ND		
Y23FXEFC02	10/5/2016 7:55	1.01			1.07	0.21	ND			ND		
Y23FXEFC02	10/5/2016 7:55	1.02			1.05	0.17	ND			ND		
Y27LBVRC13	4/22/2013 16:30				0.47	ND				0.00004	0.27	61.6
Y27LBVRC13	6/24/2013 16:56				0.43	ND				0.00007	0.21	68.6
Y27LBVRC13	8/5/2013 17:05				0.23	ND				0.00021	ND	24.6
Y27LBVRC13	10/22/2013 13:40				0.4	ND				ND	0.25	62.4
Y27LBVRC13	4/16/2014 16:00	0.32	0.32		0.33	ND	ND	ND		ND	0.22	74.9
Y27LBVRC13	6/25/2014 18:35	0.53	0.54	0.54	0.57	ND	ND	ND	ND	6.00E-05		
Y27LBVRC13	8/13/2014 16:26	0.48	0.46	0.48	0.47	ND	ND	0.00005	ND	0.00005		
Y27LBVRC13	10/24/2014 16:50	0.46	0.45	0.46	0.46	ND	ND	0.00016	ND	ND		
Y27LBVRC13	4/29/2015 15:40	0.43			0.44	ND	ND			ND		
Y27LBVRC13	8/6/2015 13:52	0.48			0.48	ND	ND			0.00004	ND	
Y27LBVRC13	10/21/2015 17:07	0.48			0.48	ND	ND			ND		
Y27LBVRC13	6/23/2016 20:42	0.6			0.63	ND	ND			0.00004	0.315	
Y27LBVRC13	8/25/2016 12:59	0.54			0.52	ND	ND			0.00005		
Y27LBVRC13	10/6/2016 7:43	0.38			0.39	ND	ND			0.00005		

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M42LBOXC05	6/12/2012 14:38				0.12	ND				0.00015	0.24	34.5
M42LBOXC05	7/10/2012 19:05				0.16	ND				ND	0.25	39.8
M42LBOXC05	10/16/2012 9:20				0.22	ND				ND	0.25	46.2
M42LBOXC06	4/23/2013 10:40				0.15	ND				ND	0.227	41.5
M42LBOXC06	4/23/2013 10:40				0.14	ND				ND	0.23	37.3
M42LBOXC06	6/17/2013 17:15				0.14	ND				0.00017	ND	42.3
M42LBOXC06	8/18/2013 17:45				0.21	ND				ND	0.21	43.6
M42LBOXC06	10/7/2013 16:15				0.21	ND				ND	0.22	48
M42LBOXC05	4/14/2014 15:30	0.13	0.13		0.13	ND	ND	0.00005		ND	0.2	43.3
M42LBOXC05	6/23/2014 14:30	0.17	0.17		0.19	ND	ND	ND		5.00E-05		45.6
M42LBOXC06	8/11/2014 14:10	0.27	0.25	0.27	0.25	ND	ND	ND	ND	0.00003		
M42LBOXC05	10/22/2014 13:30	0.21	0.22	0.21	0.22	ND	ND	ND	ND	ND		
M42LBOXC05	4/27/2015 15:15	0.14			0.16	ND	ND			0.00003		
M42LBOXC05	6/16/2015 14:23	0.19			0.18	ND	ND			ND	0.3	
M42LBOXC05	6/16/2015 14:24	0.19			0.18	ND	ND			0.00004	0.3	
M42LBOXC05	8/3/2015 16:33	0.17			0.18	ND	ND			0.00003		
M42LBOXC05	8/3/2015 16:47	0.17			0.18	ND	ND			0.00004		
M42LBOXC05	10/19/2015 13:00	0.24			0.25	ND	ND			ND		
M42LBOXC05	6/20/2016 16:01	0.12			0.13	ND	ND			0.00004	0.275	
M42LBOXC05	8/22/2016 15:43	0.19			0.18	ND	ND			ND		
M42LBOXC05	10/3/2016 13:05	0.21			0.21	ND	ND			ND		
M50MEDL01	4/28/2015 17:15	0.76			0.77	ND	ND			0.00006		
M50MEDL01	6/18/2015 9:44	0.9			0.8	ND	ND			ND	0.3	
M50MEDL01	6/18/2015 10:01	0.88			0.8	ND	ND			ND	0.3	
M50MEDL01	8/4/2015 14:00	0.9			0.89	0.11	ND			0.00007		
M50MEDL01	8/4/2015 14:12	0.9			0.88	0.1	ND			0.00009		
M50MEDL01	10/20/2015 16:08	0.97			0.95	0.12	ND			0.00004		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M50MEDL01	10/20/2015 16:18	0.96			0.97	0.12	ND			0.00006		
M50MEDL01	6/23/2016 9:08	1.01			1.07	0.21	ND			0.00004	0.523	
M50MEDL01	6/23/2016 9:08	1			1.04	0.23	ND			0.00006	0.566	
M50MEDL01	8/23/2016 17:36	1.25			1.2	0.23	ND			0.00005		
M50MEDL01	8/23/2016 17:36	1.23			1.21	0.22	ND			0.00005		
M50MEDL01	10/4/2016 12:24	1.11			1.15	0.26	ND			0.00005		
M50MEDL01	10/4/2016 12:24	1.11			1.13	0.26	ND			0.00005		
Y22PENELC02	4/22/2013 12:40				0.45	ND				0.00014	0.325	103
Y22PENELC02	6/24/2013 13:18				0.21	ND				0.00119	0.35	50.8
Y22PENELC02	8/5/2013 15:05				2.77	0.45				0.00078	0.28	181
Y22PENELC02	10/22/2013 10:26				0.26	ND				0.0001	0.35	78.5
Y22PENELC02	4/16/2014 13:30	0.13	0.13		0.13	ND	ND	ND		0.00003	0.25	143
Y22PENELC02	6/25/2014 16:55	0.33	0.33	0.32	0.36	1.1	0.00005	ND	3.00E-05	5.00E-05		
Y22PENELC02	8/13/2014 14:40	0.53	0.47	0.5	0.49	ND	ND	ND	ND	ND		
Y22PENELC02	10/24/2014 15:56	0.27	0.25	0.26	0.26	0.2	ND	0.00016	ND	0.00008		
Y22PENELC02	4/29/2015 18:15	0.15			0.15	0.14	ND			ND		
Y22PENELC02	6/18/2015 20:42	0.26			0.4	ND	ND			0.00006	0.3	
Y22PENELC02	8/6/2015 10:50	0.75			0.73	ND	ND			0.00004		
Y22PENELC02	10/21/2015 15:46	0.88			0.88	0.3	ND			0.00003		
Y22PENELC02	6/23/2016 18:27	1.71			1.85	ND	ND			ND	0.331	
Y22PENELC02	8/25/2016 10:11	0.99			0.98	ND	ND			ND		
Y22PENELC02	10/5/2016 15:48	0.13			0.14	ND	0.00004			0.00006		
Y22SNSTC04	4/22/2013 14:15				0.46	ND				ND	0.398	72.4
Y22SNSTC04	6/24/2013 15:00				0.18	ND				0.00019	0.25	47.7
Y22SNSTC04	8/6/2013 8:40				0.35	ND				0.00009	0.24	66.6
Y22SNSTC04	10/22/2013 11:51				0.53	0.31				0.00007	0.39	80.4
Y22SNSTC04	4/16/2014 18:00	0.29	0.29		0.3	ND	ND	ND		ND	0.36	84.6

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
Y22SNSTC04	6/25/2014 20:20	0.7	0.69	0.72	0.76	ND	ND	ND	ND	4.00E-05		
Y22SNSTC04	8/13/2014 17:53	0.76	0.72	0.76	0.75	ND	ND	0.00004	ND	ND		
Y22SNSTC04	10/24/2014 18:15	0.47	0.45	0.47	0.47	0.1	ND	ND	ND	ND		
Y22SNSTC04	4/29/2015 17:15	0.5			0.43	0.12	ND			0.00004		
Y22SNSTC04	6/19/2015 7:51	0.86			0.88	ND	ND			0.00004	0.3	
Y22SNSTC04	8/6/2015 11:51	0.67			0.67	ND	ND			ND		
Y22SNSTC04	10/22/2015 7:35	0.77			0.72	ND	ND			ND		
Y22SNSTC04	6/24/2016 8:20	0.62			0.66	ND	ND			0.00004	0.319	
Y22SNSTC04	8/25/2016 11:23	0.57			0.56	ND	ND			0.00004		
Y22SNSTC04	10/6/2016 9:20	0.25			0.26	ND	ND			0.00004		
M52ULDSP01	4/28/2015 14:45	6.62			6.77	17	ND			0.00003		
M52ULDSP01	8/4/2015 16:22	10.4			9.96	18	0.00003			0.00011	0.3	
M52ULDSP01	10/20/2015 13:46	12.3			11.5	21.4	ND			0.00005		
M52ULDSP01	8/23/2016 14:40	20.2			19.4	136	ND			0.00004		
M52ULDSP01	8/23/2016 14:40	20			19.7	135	ND			ND		
M39WHTWC09	7/11/2012 10:00				1.08	1.4				ND	0.21	29.5
M39WHTWC09	10/16/2012 13:15				1.49	3				ND	ND	33.5
M39WHTWC09	4/23/2013 15:15				0.26	ND				ND	ND	32.5
M39WHTWC09	6/18/2013 11:20											
M39WHTWC09	6/18/2013 11:30				0.3	0.63				ND	0.2	42.5
M39WHTWC09	8/19/2013 11:30				1.23	2.47				ND	ND	32
M39WHTWC09	10/8/2013 10:45				1.04	1.96				ND	0.2	48.2
M39WHTWC09	4/14/2014 19:00	0.25	0.25		0.25	ND	ND	ND		ND	0.2	33.6
M39WHTWC09	6/23/2014 17:43	0.83	0.82		0.9	1.6	0.00003	3.00E-05		ND		
M39WHTWC09	8/11/2014 17:10	1	0.88	0.99	0.94	ND	ND	ND	ND	ND		
M39WHTWC09	10/22/2014 18:45	0.68	0.71	0.71	0.71	1.1	ND	ND	ND	ND		
M39WHTWC09	4/27/2015 18:30	0.51			0.53	1.1	ND			ND		

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M39WHTWC09	6/16/2015 18:25	0.76			0.68	1.15	ND			ND	0.2	
M39WHTWC09	8/3/2015 19:11	0.77			0.78	1.9	ND			0.00003		
M39WHTWC09	10/19/2015 15:46	1.06			1.07	4.4	ND			0.00004		
M39WHTWC09	6/20/2016 20:17	0.65			0.71	1.43	ND			ND	0.185	
M39WHTWC09	8/22/2016 18:40	0.77			0.74	1.53	ND			ND		
M39WHTWC09	10/3/2016 15:59	0.66			0.66	1.56	ND			ND		
M39WHTWC10	6/12/2012 18:33				0.9	0.93				ND	0.27	40
M17WILOC03	4/22/2013 18:20				0.25	ND	ND				0.252	108
M17WILOC03	6/17/2013 13:30				0.38	0.11	ND				0.26	118
M17WILOC03	6/17/2013 13:30				0.37	0.1	ND				0.27	118
M17WILOC03	8/18/2013 13:55				0.5	ND	ND				0.31	128
M17WILOC03	8/18/2013 13:55				0.5	0.16	ND				0.3	129
M17WILOC03	10/7/2013 12:50				0.55	0.18	ND				ND	198
M17WILOC03	10/7/2013 13:00				0.54	ND	ND				0.21	182
M17WILOC02	6/12/2012 10:45				0.38	ND	ND				0.3	119.4
M17WILOC02	6/18/2012 11:23											
M17WILOC02	6/18/2012 11:25											
M17WILOC02	7/10/2012 15:50				0.41	ND				ND	0.24	126
M17WILOC02	10/15/2012 16:37				0.64	0.2				ND	0.28	123
M17WILOC02	8/11/2014 10:45	0.53	0.59	0.58	0.53	ND	ND	ND	ND	0.00005		
M17WILOC04	4/14/2014 11:35	0.17	0.18		0.17	ND	ND	ND		ND	0.27	81.9
M17WILOC04	6/23/2014 11:30	0.39	0.4		0.43	0.05	ND	ND		ND		
M17WILOC04	10/22/2014 10:15	0.47	0.46	0.48	0.47	ND	ND	ND	ND	ND		
M17WILOC04	4/27/2015 12:00	0.28			0.28	ND	ND			0.00004		
M17WILOC04	6/16/2015 10:28	0.54			0.51	0.06	ND			ND	0.3	
M17WILOC04	8/3/2015 14:10	0.59			0.6	0.2	ND			ND		
M17WILOC04	10/19/2015 10:08	0.67			0.65	0.2	ND			0.00007		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Dissolved	Boron~~ Total Recoverable	Bromide~ ~Total	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~ ~Dissolved	Cadmium~~ Total Recoverable	Cadmium~~ Total Recoverable Dry	Calcium~~ Free Available
										0.0087/0.00085		
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l
M17WILOC04	6/20/2016 12:45	0.57			0.63	ND	ND			ND	0.413	
M17WILOC04	8/22/2016 12:46	0.71			0.71	0.1	ND			0.00004		
M17WILOC04	10/3/2016 10:29	0.8			0.79	ND	ND			ND		
M17WLWFC01	6/12/2012 11:45											

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00					13.2	34.1				ND
Y23BENPC03	6/25/2013 16:30					40.2	32.6				ND
Y23BENPC03	8/7/2013 10:32					66.9	30.4				0.002
Y23BENPC03	8/7/2013 10:32					67.8	30.3				0.002
Y23BENPC03	10/23/2013 15:30					23.6	23.2				0.002
Y23BENPC03	4/15/2014 18:13					ND	18.9	ND	ND		0.003
Y23BENPC03	6/24/2014 16:36				69.4	60.5	37.9	ND	ND	ND	ND
Y23BENPC03	8/12/2014 15:11	52	49	51	52	ND	37	ND	ND	ND	0.002
Y23BENPC03	10/23/2014 15:35	76	77	76	80	87	52	ND	ND	ND	ND
M50BMDYC11	7/12/2012 9:30					84.8	18.9				0.001
M50BMDYC11	7/12/2012 9:45										
M50BMDYC11	10/17/2012 11:00					106	50.3				ND
M50BMDYC11	10/17/2012 11:15					104	50.6				ND
M50BMDYC11	4/23/2013 13:30					ND	10.3				ND
M50BMDYC11	4/23/2013 13:30					ND	10.5				ND
M50BMDYC11	6/25/2013 8:16					41.9	21.8				0.002
M50BMDYC11	8/6/2013 13:03					96.9	21.4				0.002
M50BMDYC11	10/23/2013 7:50					31.7	22.1				0.001
M50BMDYC11	4/15/2014 12:34					52.6	22.9	ND	ND		0.001
M50BMDYC11	6/24/2014 12:11				75	78.8	28.6	0.001	0.001	0.001	0.002
M50BMDYC11	8/12/2014 11:40	39	34	39	42	51	26	ND	ND	ND	0.003
M50BMDYC11	10/23/2014 11:15	36	37	37	39	58	31	ND	ND	ND	0.002
M50BMDYC11	4/28/2015 12:15	86			90		20.6	ND			0.004
M50BMDYC11	6/17/2015 13:21	50			56		21.8	ND			0.005
M50BMDYC11	8/4/2015 12:15	29			34			ND			0.003
M50BMDYC11	10/20/2015 11:24	54			54	45	28.8	ND			0.002
M50BMDYC11	6/21/2016 15:42	74			84	37	24.2	ND			0.003

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09	52			54	37	23.3	ND			0.006
M50BMDYC11	10/4/2016 10:45	51			56	28	27.5	ND			0.004
M50BMDYC12	6/13/2012 18:32					30.6	61.9				0.003
Y23CABNC08	4/22/2013 11:16					ND	14.2				0.09
Y23CABNC08	6/24/2013 11:34					ND	13.2				0.176
Y23CABNC08	8/5/2013 13:10					ND	53.8				0.118
Y23CABNC08	10/22/2013 8:54					ND	246				0.022
Y23CABNC08	4/16/2014 12:05					ND	293	ND	ND		0.002
Y23CABNC08	6/25/2014 15:03				169	46.2	562	0.002	0.002	0.002	0.002
Y23CABNC08	8/13/2014 13:22	137	125	135	68	ND	480	ND	ND	ND	ND
Y23CABNC08	10/24/2014 14:30	172	169	181	172	14	630	ND	ND	ND	0.001
Y23CABNC08	4/29/2015 19:30	271			306		904	ND			ND
Y23CABNC08	6/18/2015 18:56	124			115		282	ND			0.003
Y23CABNC08	8/6/2015 9:17	255			255			ND			ND
Y23CABNC08	10/21/2015 14:42	261			227	7	931	ND			ND
Y23CABNC08	6/23/2016 16:07	27			43	ND	56.1	0.001			0.09
Y23CABNC08	8/25/2016 8:22	54			52	10	116	ND			0.003
Y23CABNC08	10/5/2016 14:38	19			73	ND	23.5	0.001			0.318
Y23CEDRC04	4/22/2013 9:00					ND	8.65				0.112
Y23CEDRC04	6/24/2013 9:16					ND	33.6				0.191
Y23CEDRC04	8/5/2013 9:35					3.25	9.5				0.267
Y23CEDRC04	10/21/2013 15:00					ND	31.5				0.351
Y23CEDRC04	10/21/2013 15:00					2.8	28.2				0.09
Y23CEDRC04	4/16/2014 8:00					ND	43.9	ND			ND
Y23CEDRC04	4/16/2014 8:00					ND	43.1	ND	ND		ND
Y23CEDRC04	6/25/2014 13:05				136	26.5	44.1	ND	ND	ND	ND
Y23CEDRC04	8/13/2014 11:14	390	360	391	378	ND	220	ND	ND	ND	0.005

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15	153	144	152	149	11	92	ND	ND	ND	ND
Y23CEDRC04	4/30/2015 8:45	307			353		108	ND			ND
Y23CEDRC04	6/19/2015 17:37	109			114		30.1	ND			0.047
Y23CEDRC04	8/5/2015 15:48	50			54			ND			0.007
Y23CEDRC04	10/21/2015 12:56	220			203	ND	113	ND			ND
Y23CEDRC04	6/22/2016 20:21	79			86	25	44	ND			0.001
Y23CEDRC04	8/24/2016 14:24	62			57	15	16.3	ND			0.008
Y23CEDRC04	10/5/2016 12:33				95	ND	8.57				0.464
M51CHLYC04	6/13/2012 13:53					209	68.8				0.004
M51CHLYC04	7/11/2012 18:00					202	31.7				0.003
M51CHLYC04	10/17/2012 16:10					138	65.3				ND
M51CHLYC04	4/23/2013 11:30					8.14	14.5				ND
M51CHLYC04	6/25/2013 12:12					38.8	29				0.003
M51CHLYC04	8/6/2013 16:25					195	30.3				0.004
M51CHLYC04	10/23/2013 11:30					89.3	30				0.003
M51CHLYC04	4/15/2014 11:13					42.8	27.3	0.001	0.001		0.002
M51CHLYC04	6/24/2014 10:47				55.5	118	52.6	0.003	0.003	0.004	0.003
M51CHLYC04	8/12/2014 10:32	109	95	107	102	ND	38	ND	ND	ND	ND
M51CHLYC04	10/23/2014 10:00	107	109	104	110	53	44	ND	ND	ND	ND
M51CHLYC04	4/28/2015 11:00	143			172		27.9	ND			ND
M51CHLYC04	6/17/2015 11:22	66			64		37.1	ND			ND
M51CHLYC04	8/4/2015 10:42	89			93			ND			ND
M51CHLYC04	10/20/2015 10:09	113			115	ND	24.6	ND			ND
M51CHLYC04	6/21/2016 12:56	67			76	110	48.6	ND			ND
M51CHLYC04	8/23/2016 10:31	38			38	33	8.93	ND			ND
M51CHLYC04	10/4/2016 9:35	90			93	ND	29.3	ND			0.001
M51CHLYC05	6/13/2012 15:49					133	16.9				0.003

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30					78.2	18.7				0.002
M51CHLYC05	10/17/2012 14:23					1	9.31				0.109
M51CHLYC05	4/23/2013 9:52					45.5	15.4				0.003
M51CHLYC05	6/25/2013 10:24					44.6	14.2				0.008
M51CHLYC05	8/6/2013 14:56					107	18.7				0.041
M51CHLYC05	10/23/2013 9:50					48.5	24.7				0.003
M51CHLYC05	4/15/2014 9:45					51.1	14.4	ND	ND		0.001
M51CHLYC05	6/24/2014 9:11				60.1	133	23.5	0.002	0.002	0.002	0.003
M51CHLYC05	8/12/2014 8:58	96	97	105	115	70	13	ND	0.002	ND	0.006
M51CHLYC05	10/23/2014 9:00	67	72	69	69	60	24	ND	ND	ND	0.003
M51CHLYC05	4/28/2015 9:51	118			134		24	ND			0.003
M51CHLYC05	6/17/2015 9:21	49			47		17.9	ND			0.001
M51CHLYC05	8/4/2015 9:20	54			56			ND			0.001
M51CHLYC05	10/20/2015 8:54	114			130	42	14.3	ND			ND
M51CHLYC05	6/21/2016 10:43	57			64	43	12.8	ND			0.019
M51CHLYC05	8/23/2016 9:08	45			53	84	23.8	ND			0.002
M51CHLYC05	10/4/2016 8:22				86	ND	2				0.483
Y23DRMFC01	6/24/2014 19:41				158	ND	8.42	0.002	0.002	0.002	0.002
Y23DRMFC01	8/13/2014 9:06	183	162	173	180	ND	18	ND	ND	ND	ND
Y23DRMFC01	8/13/2014 9:06	183	163	182	178	ND	18	ND	ND	ND	ND
Y23DRMFC01	10/24/2014 8:20	148	150	151	153	20	19	ND	ND	ND	ND
Y23DRMFC01	4/29/2015 11:00	145			143		13.7	ND			ND
Y23DRMFC01	4/29/2015 11:00	144			140		13.7	ND			ND
Y23DRMFC01	6/19/2015 12:00	140			148		7.8	ND			ND
Y23DRMFC01	8/5/2015 12:14										
Y23DRMFC01	10/21/2015 9:58	157			146	ND	21.3	ND			ND
Y23DRMFC01	10/21/2015 10:08	158			147	ND	21.8	ND			ND

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47										
Y23DRMFC01	8/24/2016 12:10										
Y23DEERC01	6/25/2014 8:11				104	38.4	16.4	0.002	0.001	0.002	0.001
Y23DEERC01	6/25/2014 8:11				104	38.5	16.1	0.002	0.002	0.002	0.001
Y23DEERC01	8/13/2014 7:14	106	96	106	102	ND	18	ND	ND	ND	ND
Y23DRSFC01	10/24/2014 9:54	321	324	322	313	ND	16	ND	ND	ND	ND
Y23DRSFC01	10/24/2014 9:54	307	323	316	316	ND	16	ND	ND	ND	ND
Y23DRSFC01	4/29/2015 12:15	212			201		21.6	ND			ND
Y23DRSFC01	6/19/2015 14:02	298			317		21.4	ND			ND
Y23DRSFC01	8/5/2015 13:24	372			389			ND			ND
Y23DRSFC01	10/21/2015 11:30										
Y23DRSFC01	6/22/2016 16:56	283			319	25	56.8	ND			ND
Y23DRSFC01	8/24/2016 12:54										
Y23DRSFC01	10/5/2016 11:00										
M51FORMC04	4/23/2013 16:30					ND	18.5				ND
M51FORMC04	6/25/2013 14:13					42.9	29.4				0.002
M51FORMC04	6/25/2013 14:13					46.6	29.2				0.001
M51FORMC04	10/23/2013 13:58					29.9	32.4				0.002
M51FORMC04	4/15/2014 15:00					18.5	21.6	ND	ND		0.002
M51FORMC04	6/24/2014 13:53				84	78.9	18.7	0.002	0.002	0.002	0.001
M51FORMC04	8/12/2014 13:40	101	87	99	100	ND	23	ND	ND	ND	0.001
M51FORMC04	10/23/2014 12:30	131	130	131	135	41	33	ND	ND	ND	ND
M51FORMC04	4/28/2015 19:15	140			138		18.4	ND			0.002
M51FORMC04	4/28/2015 19:15	139			139		18.7	ND			0.001
M51FORMC04	6/17/2015 17:57	68			64		18.4	ND			ND
M51FORMC04	8/5/2015 8:38	80			59			0.001			0.003
M51FORMC04	10/20/2015 18:31	103			98	34	13.4	ND			ND

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	63			69	33	33.4	ND			ND
M51FORMC04	8/24/2016 8:09	60			58	100	34.8	ND			ND
M51FORMC04	10/4/2016 16:03	95			96	8	26.9	ND			0.002
Y23FXEFC01	10/23/2014 14:10	386	390	389	397	60	53	ND	ND	ND	ND
Y23FXEFC02	4/29/2015 9:00	289			275		57.1	ND			ND
Y23FXEFC02	6/18/2015 14:02	93			85		52.5	ND			ND
Y23FXEFC02	8/5/2015 10:16	96			100			ND			ND
Y23FXEFC02	10/21/2015 7:35	127			119	12	120	ND			ND
Y23FXEFC02	6/22/2016 11:22	112			130	25	61.6	ND			0.002
Y23FXEFC02	6/22/2016 11:22	112			131	27	61.3	ND			0.002
Y23FXEFC02	8/24/2016 9:58	146			148	ND	92.9	ND			ND
Y23FXEFC02	10/5/2016 7:55	127			123	4	83.3	ND			ND
Y23FXEFC02	10/5/2016 7:55	134			121	3	84	ND			ND
Y27LBVRC13	4/22/2013 16:30					46.9	7.59				0.001
Y27LBVRC13	6/24/2013 16:56					21.1	6.55				0.003
Y27LBVRC13	8/5/2013 17:05					5.16	2.23				0.01
Y27LBVRC13	10/22/2013 13:40					33.4	6.4				0.001
Y27LBVRC13	4/16/2014 16:00					44.3	6.75	ND	ND		ND
Y27LBVRC13	6/25/2014 18:35				66.6	57.6	5.02	ND	ND	ND	0.001
Y27LBVRC13	8/13/2014 16:26	45	41	45	45	4	6	ND	ND	ND	0.004
Y27LBVRC13	10/24/2014 16:50	56	56	57	55	20	7.3	ND	ND	ND	ND
Y27LBVRC13	4/29/2015 15:40	69			67		6.2	ND			0.002
Y27LBVRC13	8/6/2015 13:52	39			40			ND			ND
Y27LBVRC13	10/21/2015 17:07	57			51	13	5.8	ND			0.001
Y27LBVRC13	6/23/2016 20:42	34			36	25	6.57	ND			0.001
Y27LBVRC13	8/25/2016 12:59	40			41	21	7.75	ND			0.005
Y27LBVRC13	10/6/2016 7:43	37			38	8	5.58	ND			0.008

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38					ND	2.3				0.009
M42LBOXC05	7/10/2012 19:05					10.6	2.44				0.001
M42LBOXC05	10/16/2012 9:20					1.1	5.68				ND
M42LBOXC06	4/23/2013 10:40					17.7	5.02				ND
M42LBOXC06	4/23/2013 10:40					13.9	4.98				ND
M42LBOXC06	6/17/2013 17:15					16	2.86				0.006
M42LBOXC06	8/18/2013 17:45					47.4	3.82				0.001
M42LBOXC06	10/7/2013 16:15					19.8	5.28				ND
M42LBOXC05	4/14/2014 15:30					9.46	4.89	ND	ND		0.001
M42LBOXC05	6/23/2014 14:30					18.1	3.21	ND	ND		0.001
M42LBOXC06	8/11/2014 14:10	53	47	53	49	ND	4.3	ND	ND	ND	ND
M42LBOXC05	10/22/2014 13:30	51	52	51	51	7	6.8	ND	ND	ND	ND
M42LBOXC05	4/27/2015 15:15	45			44		3.31	ND			0.001
M42LBOXC05	6/16/2015 14:23	49			50		3.12	ND			0.002
M42LBOXC05	6/16/2015 14:24	49			49		3.13	ND			0.002
M42LBOXC05	8/3/2015 16:33	41			43			ND			0.002
M42LBOXC05	8/3/2015 16:47	42			43			ND			0.002
M42LBOXC05	10/19/2015 13:00	62			61	ND	6.49	ND			ND
M42LBOXC05	6/20/2016 16:01	41			44	3	1.86	ND			0.003
M42LBOXC05	8/22/2016 15:43	49			46	9	2.77	ND			0.001
M42LBOXC05	10/3/2016 13:05	51			52	5	4.54	ND			0.001
M50MEDL01	4/28/2015 17:15	28			34		23	ND			0.002
M50MEDL01	6/18/2015 9:44	27			26		25.6	ND			ND
M50MEDL01	6/18/2015 10:01	26			26		25.9	ND			ND
M50MEDL01	8/4/2015 14:00	25			34			ND			0.004
M50MEDL01	8/4/2015 14:12	25			38			ND			0.005
M50MEDL01	10/20/2015 16:08	20			24	84	33.5	ND			0.002

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18	20			25	85	33	ND			0.002
M50MEDL01	6/23/2016 9:08	25			30	86	36	ND			0.001
M50MEDL01	6/23/2016 9:08	25			31	88	36.4	ND			0.002
M50MEDL01	8/23/2016 17:36	14			19	100	38.8	ND			0.002
M50MEDL01	8/23/2016 17:36	14			20	100	38.8	ND			0.002
M50MEDL01	10/4/2016 12:24	17			24	59	40.3	ND			0.003
M50MEDL01	10/4/2016 12:24	17			22	66	40.7	ND			0.002
Y22PENELC02	4/22/2013 12:40					ND	112				0.003
Y22PENELC02	6/24/2013 13:18					ND	15.8				0.05
Y22PENELC02	8/5/2013 15:05					ND	338				0.006
Y22PENELC02	10/22/2013 10:26					ND	64.5				0.002
Y22PENELC02	4/16/2014 13:30					ND	63.4	ND	ND		0.001
Y22PENELC02	6/25/2014 16:55				127	54.8	94.9	0.002	0.002	0.002	0.002
Y22PENELC02	8/13/2014 14:40	195	182	197	192	ND	150	ND	ND	ND	ND
Y22PENELC02	10/24/2014 15:56	236	232	239	237	24	130	ND	ND	ND	ND
Y22PENELC02	4/29/2015 18:15	227			263		101	ND			ND
Y22PENELC02	6/18/2015 20:42	196			188		137	ND			0.001
Y22PENELC02	8/6/2015 10:50	185			186			ND			0.001
Y22PENELC02	10/21/2015 15:46	198			185	36	289	ND			ND
Y22PENELC02	6/23/2016 18:27	109			122	58	779	ND			ND
Y22PENELC02	8/25/2016 10:11	154			154	22	381	ND			0.002
Y22PENELC02	10/5/2016 15:48	47			48	ND	29.3	ND			0.009
Y22SNSTC04	4/22/2013 14:15					59	39.3				ND
Y22SNSTC04	6/24/2013 15:00					ND	11.8				0.008
Y22SNSTC04	8/6/2013 8:40					10.9	12.4				0.004
Y22SNSTC04	10/22/2013 11:51					40.8	54.4				0.001
Y22SNSTC04	4/16/2014 18:00					18.6	23.5	ND	ND		0.001

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20				161	41	67.5	0.002	0.002	0.002	0.002
Y22SNSTC04	8/13/2014 17:53	121	111	120	118	ND	65	ND	ND	ND	ND
Y22SNSTC04	10/24/2014 18:15	145	144	145	143	16	31	ND	ND	ND	0.001
Y22SNSTC04	4/29/2015 17:15	150			147		50.7	ND			0.003
Y22SNSTC04	6/19/2015 7:51	134			146		45.8	ND			0.004
Y22SNSTC04	8/6/2015 11:51	102			105			ND			0.001
Y22SNSTC04	10/22/2015 7:35	109			93	24	42.4	ND			0.001
Y22SNSTC04	6/24/2016 8:20	82			84	14	28.8	ND			0.002
Y22SNSTC04	8/25/2016 11:23	103			99	1	40.1	ND			0.002
Y22SNSTC04	10/6/2016 9:20	61			62	ND	33.9	ND			0.004
M52ULDSP01	4/28/2015 14:45	470			474		5100	ND			0.001
M52ULDSP01	8/4/2015 16:22	619			615			ND			0.003
M52ULDSP01	10/20/2015 13:46	779			705	ND	8690	ND			0.001
M52ULDSP01	8/23/2016 14:40	1090			1000	76	14900	ND			ND
M52ULDSP01	8/23/2016 14:40	969			1020	77	14800	ND			ND
M39WHTWC09	7/11/2012 10:00					160	118				ND
M39WHTWC09	10/16/2012 13:15					174	268				ND
M39WHTWC09	4/23/2013 15:15					5.74	16.1				ND
M39WHTWC09	6/18/2013 11:20										
M39WHTWC09	6/18/2013 11:30					6.36	16.6				ND
M39WHTWC09	8/19/2013 11:30					166	170				0.001
M39WHTWC09	10/8/2013 10:45					109	138				0.002
M39WHTWC09	4/14/2014 19:00					5.3	19	ND	ND		0.001
M39WHTWC09	6/23/2014 17:43				78.1	41.5	96.5	ND	ND		ND
M39WHTWC09	8/11/2014 17:10	16	15	16	17	220	98	ND	ND	ND	ND
M39WHTWC09	10/22/2014 18:45	72	79	74	76	34	94	ND	ND	ND	ND
M39WHTWC09	4/27/2015 18:30	61			60		75.8	ND			ND

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	72			70		165	ND			0.001
M39WHTWC09	8/3/2015 19:11	59			63			ND			0.002
M39WHTWC09	10/19/2015 15:46	50			50	22	231	ND			0.002
M39WHTWC09	6/20/2016 20:17	56			60	19	157	ND			0.001
M39WHTWC09	8/22/2016 18:40	68			63	7	150	ND			0.001
M39WHTWC09	10/3/2016 15:59	57			58	2	154	ND			0.003
M39WHTWC10	6/12/2012 18:33					72.5	73.2				0.001
M17WILOC03	4/22/2013 18:20					57.9	26.3				ND
M17WILOC03	6/17/2013 13:30					74.4	26.8				0.002
M17WILOC03	6/17/2013 13:30					72.3	26.7				0.002
M17WILOC03	8/18/2013 13:55					87.3	44.3				0.003
M17WILOC03	8/18/2013 13:55					85.7	43.6				0.004
M17WILOC03	10/7/2013 12:50					2.04	52.2				0.003
M17WILOC03	10/7/2013 13:00					1.67	52.2				0.003
M17WILOC02	6/12/2012 10:45					21.5	34.5				0.001
M17WILOC02	6/18/2012 11:23										
M17WILOC02	6/18/2012 11:25										
M17WILOC02	7/10/2012 15:50					59.7	38.7				0.002
M17WILOC02	10/15/2012 16:37					118	79.8				ND
M17WILOC02	8/11/2014 10:45	56	64	63	60	93	44	ND	ND	ND	ND
M17WILOC04	4/14/2014 11:35					3.75	19.6	ND	ND		0.002
M17WILOC04	6/23/2014 11:30				110	41.4	30.4	0.002	0.002		0.001
M17WILOC04	10/22/2014 10:15	327	335	338	336	ND	76	ND	ND	ND	ND
M17WILOC04	4/27/2015 12:00	134			136		27.4	ND			ND
M17WILOC04	6/16/2015 10:28	107			105		51.6	ND			ND
M17WILOC04	8/3/2015 14:10	76			80			ND			ND
M17WILOC04	10/19/2015 10:08	103			102	42	91.3	ND			0.002

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~ ~Dissolved	Calcium~~ Total Recoverable	Carbonate as CO3~~ Total	Chloride~~ Total	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Dissolved	Chromium~~ Total Recoverable
											5.6117/0.2682 0.1
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	116			125	10	40.7	ND			ND
M17WILOC04	8/22/2016 12:46	97			96	24	81.8	ND			ND
M17WILOC04	10/3/2016 10:29	109			111	35	89.8	ND			ND
M17WLWFC01	6/12/2012 11:45										

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00	8.9				0.004	19.6	0.53	544	0.382	
Y23BENPC03	6/25/2013 16:30	9.48				0.003	18.5	0.79	512	0.184	
Y23BENPC03	8/7/2013 10:32	10				0.007	14.7	0.84	360	0.878	
Y23BENPC03	8/7/2013 10:32	8.51				0.007	14.4	0.9	361	0.879	
Y23BENPC03	10/23/2013 15:30	9.84				0.007	21.7	0.52	467	0.289	
Y23BENPC03	4/15/2014 18:13	10.5	0.002	0.003		0.008	21	0.5	360	0.319	0.15
Y23BENPC03	6/24/2014 16:36		0.002	0.002	0.002	0.004		1.11	494	0.403	ND
Y23BENPC03	8/12/2014 15:11		0.001	0.001	0.003	0.003		ND	473	0.15	1.03
Y23BENPC03	10/23/2014 15:35		0.001	0.001	0.001	0.002		0.5		0.39	0.02
M50BMDYC11	7/12/2012 9:30	14.6				0.002	23.5	0.26	620	0.006	
M50BMDYC11	7/12/2012 9:45										
M50BMDYC11	10/17/2012 11:00	9.96				0.002	22	0.52	798	0.006	
M50BMDYC11	10/17/2012 11:15					0.002		0.53	792	ND	
M50BMDYC11	4/23/2013 13:30					0.005		0.1	300	0.148	
M50BMDYC11	4/23/2013 13:30					0.004		0.12	304	0.145	
M50BMDYC11	6/25/2013 8:16	8.64				0.004	17.4	0.14	540	0.011	
M50BMDYC11	8/6/2013 13:03	12.6				0.004	17.9	0.33	720	ND	
M50BMDYC11	10/23/2013 7:50	11.7				0.002	25.4	0.21	692	0.008	
M50BMDYC11	4/15/2014 12:34	12.2	0.002	0.002		0.004	17.5	0.18	402	0.006	0.03
M50BMDYC11	6/24/2014 12:11		0.002	0.007	0.002	0.005		0.27	758	0.01	ND
M50BMDYC11	8/12/2014 11:40		0.001	0.002	0.002	0.005		ND	541	ND	ND
M50BMDYC11	10/23/2014 11:15		ND	0.001	ND	0.002		ND	457	0.02	ND
M50BMDYC11	4/28/2015 12:15		ND			0.004		ND	707		ND
M50BMDYC11	6/17/2015 13:21	14.3	0.002			0.007	19.5	ND	522		ND
M50BMDYC11	8/4/2015 12:15		0.001			0.005			461		0.03
M50BMDYC11	10/20/2015 11:24		ND			0.003		ND	685		ND
M50BMDYC11	6/21/2016 15:42	15.1	0.001			0.003	23.3	ND	910		ND

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09		0.001			0.006		ND	743		0.02
M50BMDYC11	10/4/2016 10:45		ND			0.004		ND	739		ND
M50BMDYC12	6/13/2012 18:32	9.8				0.004	16.4	0.31	1060	0.018	
Y23CABNC08	4/22/2013 11:16	13.7				0.225	35.2	0.2	210	1.21	
Y23CABNC08	6/24/2013 11:34	13				0.442	34.8	0.3	404	0.759	
Y23CABNC08	8/5/2013 13:10	16.8				0.26	23.5	0.27	453	0.578	
Y23CABNC08	10/22/2013 8:54	12.7				0.062	26.8	0.38	685	2.45	
Y23CABNC08	4/16/2014 12:05	15.1	0.006	0.006		0.009	37	0.36	562	0.302	0.05
Y23CABNC08	6/25/2014 15:03		0.006	0.006	0.006	0.009		0.49	1150	0.008	ND
Y23CABNC08	8/13/2014 13:22		0.008	0.007	0.007	0.005		ND	568	0.17	0.03
Y23CABNC08	10/24/2014 14:30		0.004	0.004	0.004	0.005		ND	892	0.09	0.04
Y23CABNC08	4/29/2015 19:30		0.003			0.004		ND	1810		ND
Y23CABNC08	6/18/2015 18:56	17	0.005			0.01	32.3	ND	644		0.05
Y23CABNC08	8/6/2015 9:17		0.003			0.003			1530		ND
Y23CABNC08	10/21/2015 14:42		0.003			0.003		ND	1310		ND
Y23CABNC08	6/23/2016 16:07	18.4	0.016			0.119	28.9	ND	229		0.29
Y23CABNC08	8/25/2016 8:22		0.012			0.015		0.2	233		0.3
Y23CABNC08	10/5/2016 14:38		0.012			0.31		0.2	443		0.63
Y23CEDRC04	4/22/2013 9:00	11.5				0.234	29.9	0.31	309	0.833	
Y23CEDRC04	6/24/2013 9:16	13.3				0.387	31.1	0.57	967	0.169	
Y23CEDRC04	8/5/2013 9:35	14.6				0.558	24.3	0.34	773	0.757	
Y23CEDRC04	10/21/2013 15:00	16.2				0.78	36.5	0.3	1290	2.2	
Y23CEDRC04	10/21/2013 15:00	15.9				0.193	36.4	0.34	347	2.74	
Y23CEDRC04	4/16/2014 8:00	14.5	0.004			0.006	28.9	0.42	552	0.007	0.07
Y23CEDRC04	4/16/2014 8:00	13.4	0.005	0.004		0.006	27.1	0.31	554	0.006	0.06
Y23CEDRC04	6/25/2014 13:05		0.004	0.004	0.004	0.005		0.51	660	0.065	ND
Y23CEDRC04	8/13/2014 11:14		0.001	0.002	0.001	0.006		ND	2010	ND	ND

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15		0.005	0.005	0.004	0.006		ND	777	ND	ND
Y23CEDRC04	4/30/2015 8:45		0.003			0.004		ND	1960		ND
Y23CEDRC04	6/19/2015 17:37	13.1	0.005			0.041	25	ND	596		0.03
Y23CEDRC04	8/5/2015 15:48		0.009			0.015			229		0.12
Y23CEDRC04	10/21/2015 12:56		0.001			0.002		ND	1230		ND
Y23CEDRC04	6/22/2016 20:21	14.7	0.008			0.01	23.6	0.1	358		0.05
Y23CEDRC04	8/24/2016 14:24		0.01			0.017		0.2	259		0.17
Y23CEDRC04	10/5/2016 12:33					0.494		0.3	616		
M51CHLYC04	6/13/2012 13:53	9.01				0.001	16.4	0.27	2740	0.007	
M51CHLYC04	7/11/2012 18:00	11.2				0.002	14.6	0.17	1710	ND	
M51CHLYC04	10/17/2012 16:10	8.76				ND	14.4	0.34	3060	0.016	
M51CHLYC04	4/23/2013 11:30	6.29				0.002	14	ND	844	ND	
M51CHLYC04	6/25/2013 12:12	7.69				0.002	13.4	0.16	1500	ND	
M51CHLYC04	8/6/2013 16:25	7.43				0.002	13.4	0.18	1720	ND	
M51CHLYC04	10/23/2013 11:30	6.99				0.001	17	0.25	1820	0.141	
M51CHLYC04	4/15/2014 11:13	8.97	0.001	0.002		0.002	15.1	0.22	1090	0.008	0.03
M51CHLYC04	6/24/2014 10:47		0.002	0.002	0.002	0.002		0.08	2020	ND	0.02
M51CHLYC04	8/12/2014 10:32		ND	ND	ND	ND		ND	2080	0.02	0.14
M51CHLYC04	10/23/2014 10:00		ND	ND	ND	ND		ND		0.02	0.08
M51CHLYC04	4/28/2015 11:00		ND			0.002		ND	1630		0.04
M51CHLYC04	6/17/2015 11:22	9.32	0.002			0.002	13.3	ND	1840		0.03
M51CHLYC04	8/4/2015 10:42		ND			0.001			1690		0.04
M51CHLYC04	10/20/2015 10:09		ND			ND		ND	1730		0.05
M51CHLYC04	6/21/2016 12:56	10	ND			0.001	16.1	ND	2160		0.03
M51CHLYC04	8/23/2016 10:31		0.001			0.002		ND	1070		0.04
M51CHLYC04	10/4/2016 9:35		0.002			0.003		ND	1380		0.06
M51CHLYC05	6/13/2012 15:49	15				0.006	26.6	0.24	940	0.006	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30	15.1				0.003	26.7	0.3	978	ND	
M51CHLYC05	10/17/2012 14:23	12.6				0.151	23.6	0.4	376	1.29	
M51CHLYC05	4/23/2013 9:52	11.9				0.006	25.3	0.12	1010	ND	
M51CHLYC05	6/25/2013 10:24	12.4				0.013	29.8	0.16	958	0.007	
M51CHLYC05	8/6/2013 14:56	15.7				0.073	23.6	0.27	969	0.145	
M51CHLYC05	10/23/2013 9:50	12.9				0.004	21.7	0.24	1290	0.012	
M51CHLYC05	4/15/2014 9:45	13.8	0.001	0.002		0.002	20.2	0.21	737	0.006	0.02
M51CHLYC05	6/24/2014 9:11		0.003	0.003	0.003	0.005		0.26	1160	0.01	ND
M51CHLYC05	8/12/2014 8:58		0.001	0.001	0.004	0.007		ND	977	ND	1.47
M51CHLYC05	10/23/2014 9:00		0.001	0.004	0.001	0.004		ND	1010	0.02	0.05
M51CHLYC05	4/28/2015 9:51		0.001			0.003		ND	1430		0.05
M51CHLYC05	6/17/2015 9:21	18.4	0.003			0.004	24.5	ND	1320		0.02
M51CHLYC05	8/4/2015 9:20		0.001			0.003			1060		ND
M51CHLYC05	10/20/2015 8:54		ND			0.002		ND	1030		0.03
M51CHLYC05	6/21/2016 10:43	16.6	0.003			0.02	28.7	ND	748		0.32
M51CHLYC05	8/23/2016 9:08		0.007			0.009		ND	831		0.1
M51CHLYC05	10/4/2016 8:22					0.493		ND	616		
Y23DRMFC01	6/24/2014 19:41		ND	ND	ND	ND		0.18	1330	0.009	0.06
Y23DRMFC01	8/13/2014 9:06		ND	ND	ND	ND		ND	1440	0.02	0.62
Y23DRMFC01	8/13/2014 9:06		ND	ND	ND	0.001		ND	1480	0.02	0.53
Y23DRMFC01	10/24/2014 8:20	10.4	ND	ND	ND	ND	15.2	ND	1250	ND	0.33
Y23DRMFC01	4/29/2015 11:00		ND			ND		ND	1180		0.06
Y23DRMFC01	4/29/2015 11:00		ND			ND		ND	1250		0.07
Y23DRMFC01	6/19/2015 12:00	10.2	ND			0.004	14.2	ND	1340		0.1
Y23DRMFC01	8/5/2015 12:14										
Y23DRMFC01	10/21/2015 9:58		ND			ND		ND	1480		0.06
Y23DRMFC01	10/21/2015 10:08		ND			ND		ND	1480		0.05

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47										
Y23DRMFC01	8/24/2016 12:10										
Y23DEERC01	6/25/2014 8:11		0.002	0.002	0.002	0.002		0.25	926	0.029	ND
Y23DEERC01	6/25/2014 8:11		0.002	0.002	0.002	0.002		0.31	923	0.026	0.01
Y23DEERC01	8/13/2014 7:14		ND	ND	ND	0.001		ND	760	ND	ND
Y23DRSFC01	10/24/2014 9:54	9.19	ND	ND	ND	0.001	12.5	ND	2990	0.03	0.04
Y23DRSFC01	10/24/2014 9:54	9.3	ND	ND	ND	0.001	13.1	ND	2920	ND	0.14
Y23DRSFC01	4/29/2015 12:15		ND			ND		ND	1730		0.06
Y23DRSFC01	6/19/2015 14:02	8.65	ND			ND	12	ND	2490		0.24
Y23DRSFC01	8/5/2015 13:24		ND			ND			3470		0.23
Y23DRSFC01	10/21/2015 11:30										
Y23DRSFC01	6/22/2016 16:56	11	ND			ND	18.6	ND	4700		0.03
Y23DRSFC01	8/24/2016 12:54										
Y23DRSFC01	10/5/2016 11:00										
M51FORMC04	4/23/2013 16:30	6.9				0.003	15.1	0.14	734	0.012	
M51FORMC04	6/25/2013 14:13	7.61				0.002	14.8	0.16	1100	ND	
M51FORMC04	6/25/2013 14:13	7.96				0.002	15.7	0.22	1110	ND	
M51FORMC04	10/23/2013 13:58	8.76				0.001	18.5	0.22	1190	0.122	
M51FORMC04	4/15/2014 15:00	9.52	0.001	0.002		0.003	14.9	0.18	890	0.06	0.04
M51FORMC04	6/24/2014 13:53		0.002	0.002	0.003	0.003		0.23	945	ND	0.03
M51FORMC04	8/12/2014 13:40		0.001	0.001	0.001	0.003		ND	1120	0.02	0.1
M51FORMC04	10/23/2014 12:30		ND	ND	ND	ND		ND		0.03	0.02
M51FORMC04	4/28/2015 19:15		ND			0.002		ND	1110		ND
M51FORMC04	4/28/2015 19:15		ND			0.002		ND	1100		ND
M51FORMC04	6/17/2015 17:57	11.9	0.001			0.003	17.4	ND	961		0.03
M51FORMC04	8/5/2015 8:38		ND			0.003			1420		0.41
M51FORMC04	10/20/2015 18:31		ND			ND		ND	949		0.02

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	11.8	0.001			0.002	21	ND	859		0.07
M51FORMC04	8/24/2016 8:09		ND			0.004		ND	1080		0.04
M51FORMC04	10/4/2016 16:03		ND			0.002		ND	832		0.06
Y23FXEFC01	10/23/2014 14:10	4.55	0.002	0.002	0.002	0.003	7.81	ND	8670	ND	0.06
Y23FXEFC02	4/29/2015 9:00		ND			ND		ND	2620		0.04
Y23FXEFC02	6/18/2015 14:02	8.53	0.002			0.002	13.2	ND	2560		ND
Y23FXEFC02	8/5/2015 10:16		ND			0.001			3460		ND
Y23FXEFC02	10/21/2015 7:35		ND			ND		ND	4850		0.04
Y23FXEFC02	6/22/2016 11:22	11.8	ND			0.003	20.8	1.2	2460		ND
Y23FXEFC02	6/22/2016 11:22	11.4	ND			0.003	20.3	1.2	2470		ND
Y23FXEFC02	8/24/2016 9:58		ND			0.002		0.8	2480		0.04
Y23FXEFC02	10/5/2016 7:55		0.001			0.002		ND	2050		0.04
Y23FXEFC02	10/5/2016 7:55		0.001			0.002		ND	2030		0.04
Y27LBVRC13	4/22/2013 16:30	10.3				0.004	19.6	0.23	360	ND	
Y27LBVRC13	6/24/2013 16:56	8.81				0.006	20.3	0.29	418	0.083	
Y27LBVRC13	8/5/2013 17:05	12				0.018	15.4	0.15	118	0.073	
Y27LBVRC13	10/22/2013 13:40	9.47				0.004	22.7	0.26	371	0.105	
Y27LBVRC13	4/16/2014 16:00	11	0.002	0.001		0.002	17.5	0.24	412	0.012	0.02
Y27LBVRC13	6/25/2014 18:35		0.002	0.002	0.002	0.004		0.26	368	0.01	ND
Y27LBVRC13	8/13/2014 16:26		ND	0.001	ND	0.015		0.2	246	ND	ND
Y27LBVRC13	10/24/2014 16:50		ND	ND	ND	ND		0.1	320	ND	ND
Y27LBVRC13	4/29/2015 15:40		0.002			0.002		ND	424		0.03
Y27LBVRC13	8/6/2015 13:52	0.002	ND	ND		0.002			269		ND
Y27LBVRC13	10/21/2015 17:07		ND			0.002		ND	344		ND
Y27LBVRC13	6/23/2016 20:42	13.4	ND			0.002	19.1	0.1	263		ND
Y27LBVRC13	8/25/2016 12:59		ND			0.004		0.2	280		0.03
Y27LBVRC13	10/6/2016 7:43		0.003			0.007		0.2	197		0.28

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38	11.8				0.013	19.9	0.22	155	0.15	
M42LBOXC05	7/10/2012 19:05	15.1				0.004	17.7	0.22	175	0.025	
M42LBOXC05	10/16/2012 9:20	11.2				0.002	18.1	0.48	210	0.023	
M42LBOXC06	4/23/2013 10:40	9.37				0.002	16.5	0.29	194	0.051	
M42LBOXC06	4/23/2013 10:40	10.6				0.003	17	0.31	176	0.043	
M42LBOXC06	6/17/2013 17:15	9.6				0.01	11.9	0.34	192	0.192	
M42LBOXC06	8/18/2013 17:45	12.8				0.003	12.6	0.46	200	0.01	
M42LBOXC06	10/7/2013 16:15	12.8				0.002	12.4	0.42	226	0.081	
M42LBOXC05	4/14/2014 15:30	13.2	0.002	0.002		0.003	15.4	0.36	199	0.102	0.03
M42LBOXC05	6/23/2014 14:30		0.002	0.002		0.004		0.29	209	0.021	ND
M42LBOXC06	8/11/2014 14:10		0.001	0.002	0.001	0.002		0.3	223	ND	0.2
M42LBOXC05	10/22/2014 13:30		0.001	0.001	0.001	0.002		0.2	234	0.46	ND
M42LBOXC05	4/27/2015 15:15		0.002			0.002		ND	202		ND
M42LBOXC05	6/16/2015 14:23	14.6	0.002			0.005	18.8	ND	223		ND
M42LBOXC05	6/16/2015 14:24	13.8	0.002			0.003	18.9	ND	223		ND
M42LBOXC05	8/3/2015 16:33		0.001			0.003			194		ND
M42LBOXC05	8/3/2015 16:47		0.002			0.003			194		ND
M42LBOXC05	10/19/2015 13:00		ND			0.001		0.1	297		0.04
M42LBOXC05	6/20/2016 16:01	13.2	0.001			0.004	18	ND	191		0.03
M42LBOXC05	8/22/2016 15:43		0.001			0.002		0.2	215		ND
M42LBOXC05	10/3/2016 13:05		0.001			0.002		0.2	245		0.03
M50MEDL01	4/28/2015 17:15		0.002			0.004		ND	383		0.29
M50MEDL01	6/18/2015 9:44	17.7	0.002			0.002	24.5	ND	407		0.05
M50MEDL01	6/18/2015 10:01	16.8	0.002			0.002	23.1	ND	401		0.04
M50MEDL01	8/4/2015 14:00		0.001			0.004			449		0.18
M50MEDL01	8/4/2015 14:12		0.001			0.005			459		0.17
M50MEDL01	10/20/2015 16:08		0.001			0.003		ND	426		0.12

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18		ND			0.003		ND	437		0.12
M50MEDL01	6/23/2016 9:08	15.1	0.001			0.002	24.1	ND	455		0.05
M50MEDL01	6/23/2016 9:08	16.6	0.001			0.003	25.2	ND	455		0.04
M50MEDL01	8/23/2016 17:36		ND			0.002		ND	470		0.02
M50MEDL01	8/23/2016 17:36		ND			0.003		ND	472		0.02
M50MEDL01	10/4/2016 12:24		ND			0.003		ND	493		0.2
M50MEDL01	10/4/2016 12:24		ND			0.002		ND	487		0.2
Y22PENELC02	4/22/2013 12:40	13.3				0.007	26.3	0.34	1210	0.082	
Y22PENELC02	6/24/2013 13:18	12.8				0.132	32.7	0.24	277	0.197	
Y22PENELC02	8/5/2013 15:05	14.4				0.005	22.4	0.52	2550	ND	
Y22PENELC02	10/22/2013 10:26	15				0.011	34.1	0.31	664	0.234	
Y22PENELC02	4/16/2014 13:30	14.6	0.002	0.003		0.004	25.2	0.32	826	0.009	0.03
Y22PENELC02	6/25/2014 16:55		0.004	0.004	0.005	0.006		0.44	1050	0.01	ND
Y22PENELC02	8/13/2014 14:40		0.002	0.003	0.002	0.003		ND	1490	ND	ND
Y22PENELC02	10/24/2014 15:56		0.001	ND	0.001	0.002		ND		ND	0.03
Y22PENELC02	4/29/2015 18:15		0.002			0.003		ND	1590		ND
Y22PENELC02	6/18/2015 20:42	15.7	0.011			0.011	27.8	ND	1870		0.06
Y22PENELC02	8/6/2015 10:50		0.004			0.004			3010		ND
Y22PENELC02	10/21/2015 15:46		ND			0.003		ND	2270		ND
Y22PENELC02	6/23/2016 18:27	15.4	0.004			0.005	25.1	ND	1380		ND
Y22PENELC02	8/25/2016 10:11		0.001			0.005		ND	1650		0.02
Y22PENELC02	10/5/2016 15:48		0.008			0.014		0.2	276		0.53
Y22SNSTC04	4/22/2013 14:15	10.6				0.003	21	0.29	516	ND	
Y22SNSTC04	6/24/2013 15:00	10.3				0.015	17.7	0.22	270	0.136	
Y22SNSTC04	8/6/2013 8:40	12.1				0.009	16.3	0.23	349	0.08	
Y22SNSTC04	10/22/2013 11:51	11.3				0.004	22.7	0.46	564	0.015	
Y22SNSTC04	4/16/2014 18:00	14.5	0.002	0.003		0.004	22.1	0.34	576	ND	0.05

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20		0.002	0.002	0.002	0.003		0.49	1150	0.008	ND
Y22SNSTC04	8/13/2014 17:53		ND	0.001	0.001	0.002		ND	804	ND	ND
Y22SNSTC04	10/24/2014 18:15		ND	0.001	ND	0.002		0.2		0.04	ND
Y22SNSTC04	4/29/2015 17:15		0.001			0.003		ND	943		ND
Y22SNSTC04	6/19/2015 7:51	14.5	ND			0.003	22.7	ND	944		ND
Y22SNSTC04	8/6/2015 11:51		0.001			0.003			745		ND
Y22SNSTC04	10/22/2015 7:35		ND			0.002		ND	767		ND
Y22SNSTC04	6/24/2016 8:20	14.4	ND			0.002	19.2	ND	557		ND
Y22SNSTC04	8/25/2016 11:23		0.001			0.003		ND	638		0.02
Y22SNSTC04	10/6/2016 9:20		0.003			0.005		0.2	370		0.2
M52ULDSP01	4/28/2015 14:45		0.001			0.003		ND	4230		ND
M52ULDSP01	8/4/2015 16:22	12	ND		ND	0.004			6130		ND
M52ULDSP01	10/20/2015 13:46		ND			0.003		ND	7530		0.03
M52ULDSP01	8/23/2016 14:40		ND			ND		ND	11300		ND
M52ULDSP01	8/23/2016 14:40	ND	ND		ND	ND		ND	11300		ND
M39WHTWC09	7/11/2012 10:00	11.2				0.002	14.8	0.39	343	ND	
M39WHTWC09	10/16/2012 13:15	8.91				0.003	15.3	0.75	456	ND	
M39WHTWC09	4/23/2013 15:15	10.6				0.004	17.6	0.19	168	ND	
M39WHTWC09	6/18/2013 11:20										
M39WHTWC09	6/18/2013 11:30	11.5				0.003	13.8	ND	210	ND	
M39WHTWC09	8/19/2013 11:30	13.4				0.004	18.7	0.54	404	ND	
M39WHTWC09	10/8/2013 10:45	12.1				0.002	14.3	0.44	492	0.014	
M39WHTWC09	4/14/2014 19:00	13.5	0.002	0.002		0.003	15.5	0.18	173	ND	0.14
M39WHTWC09	6/23/2014 17:43		0.002	0.014		0.002		0.32	429	0.009	0.02
M39WHTWC09	8/11/2014 17:10		0.002	0.002	0.002	0.003		ND	243	ND	0.02
M39WHTWC09	10/22/2014 18:45		ND	0.001	ND	0.001		ND		ND	ND
M39WHTWC09	4/27/2015 18:30		0.001			0.002		ND	331		ND

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	13.5	0.001			0.002	15.6	ND	519		ND
M39WHTWC09	8/3/2015 19:11		0.001			0.002			508		ND
M39WHTWC09	10/19/2015 15:46		ND			0.002		ND	432		0.02
M39WHTWC09	6/20/2016 20:17	11.8	ND			0.001	14.3	ND	420		ND
M39WHTWC09	8/22/2016 18:40		ND			0.001		ND	425		ND
M39WHTWC09	10/3/2016 15:59		0.001			0.003		0.2	381		0.1
M39WHTWC10	6/12/2012 18:33	14.4	0.004				18.8	0.41	331	0.007	
M17WILOC03	4/22/2013 18:20	6.06				0.002	13.3	0.36	877	ND	
M17WILOC03	6/17/2013 13:30	8.74				0.002	13.6	0.43	1190	ND	
M17WILOC03	6/17/2013 13:30	8.51				0.002	13.6	0.49	1210	ND	
M17WILOC03	8/18/2013 13:55	10.1				0.002	12.9	0.24	1610	ND	
M17WILOC03	8/18/2013 13:55	8.8				0.002	11.5	0.27	1620	ND	
M17WILOC03	10/7/2013 12:50	5.71				0.002	5.76	0.33	1950	0.014	
M17WILOC03	10/7/2013 13:00	7.14				0.001	8.74	0.4	1770	0.011	
M17WILOC02	6/12/2012 10:45	9.05				0.001	15.5	0.33	1220	ND	
M17WILOC02	6/18/2012 11:23										
M17WILOC02	6/18/2012 11:25										
M17WILOC02	7/10/2012 15:50	13.2				0.001	13	0.34	1750	ND	
M17WILOC02	10/15/2012 16:37	6.71				0.002	16.4	0.42	2430	ND	
M17WILOC02	8/11/2014 10:45		0.002	0.001	0.001	0.003		ND	1660	ND	ND
M17WILOC04	4/14/2014 11:35	10.2	0.002	0.002		0.003	66	0.23	860	0.983	0.05
M17WILOC04	6/23/2014 11:30		0.002	0.002		0.002		0.27	999	ND	0.02
M17WILOC04	10/22/2014 10:15		ND	ND	ND	0.001		ND	2280	ND	0.03
M17WILOC04	4/27/2015 12:00		ND			0.001		ND	1190		0.05
M17WILOC04	6/16/2015 10:28	12	ND			0.002	21.2	ND	1570		ND
M17WILOC04	8/3/2015 14:10		ND			0.002			1780		ND
M17WILOC04	10/19/2015 10:08		ND			0.023		ND	2300		ND

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Chromium~~ Total Recoverable~~ Dry	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Dissolved	Copper~~ Total Recoverable	Copper~~ Total Recoverable~~ Dry	Fluoride~ ~Total	Hardness, Ca, Mg as CaCO3	Inorganic nitrate and nitrite as N~~ Total	Iron~~ Dissolved
						0.0517/0.0305					
						1.3		4		10	
		ug/g	mg/l	mg/l	mg/l	mg/l	ug/g	mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	11.2	0.001			0.001	24	0.2	1420		0.06
M17WILOC04	8/22/2016 12:46		0.003			0.005		ND	2120		ND
M17WILOC04	10/3/2016 10:29		0.001			ND		ND	2520		0.02
M17WLWFC01	6/12/2012 11:45										
									118		
									11300		
									1150.167315		
									257		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
Y23BENPC03	4/23/2013 18:00			1.41	15600				0.0008	11.6	72.8
Y23BENPC03	6/25/2013 16:30			1.5	14200				0.0011	10.6	70.8
Y23BENPC03	8/7/2013 10:32			3.55	13800				0.0025	10.4	57.3
Y23BENPC03	8/7/2013 10:32			3.59	13400				0.0025	10	57.6
Y23BENPC03	10/23/2013 15:30			4.08	16700				0.0025	11.1	60.6
Y23BENPC03	4/15/2014 18:13	0.02		6.98	14800	ND	ND		0.0037	9.94	43.6
Y23BENPC03	6/24/2014 16:36	0.02	0.02	1.77		ND	ND	ND	0.001		
Y23BENPC03	8/12/2014 15:11	0.03	0.03	2.09		ND	0.0007	ND	0.0013		
Y23BENPC03	10/23/2014 15:35	0.2	ND	0.8		ND	ND	ND	0.0005		
M50BMDYC11	7/12/2012 9:30			1.27	15300				0.0013	13.1	122
M50BMDYC11	7/12/2012 9:45										
M50BMDYC11	10/17/2012 11:00			0.86	14100				0.0013	12.2	162
M50BMDYC11	10/17/2012 11:15			0.89					0.0014		160
M50BMDYC11	4/23/2013 13:30			1.49					0.0013		47.1
M50BMDYC11	4/23/2013 13:30			1.35					0.001		47.6
M50BMDYC11	6/25/2013 8:16			2.35	12500				0.0019	10.4	94.3
M50BMDYC11	8/6/2013 13:03			1.16	14600				0.0015	12.3	132
M50BMDYC11	10/23/2013 7:50			0.69	16200				0.0008	12.5	117
M50BMDYC11	4/15/2014 12:34	0.01		1.5	15400	ND	ND		0.0012	10.8	69.4
M50BMDYC11	6/24/2014 12:11	0.01	0.01	2.07		ND	ND	ND	0.0023		139
M50BMDYC11	8/12/2014 11:40	0.02	ND	2.68		ND	ND	ND	0.0028		
M50BMDYC11	10/23/2014 11:15	0.15	ND	1.23		ND	ND	ND	0.0009		
M50BMDYC11	4/28/2015 12:15			3.08		ND			0.0026		
M50BMDYC11	6/17/2015 13:21			4.4	17100	ND			0.0029	12.1	
M50BMDYC11	8/4/2015 12:15			2.77		ND			0.0023		
M50BMDYC11	10/20/2015 11:24			2.11		ND			0.0024		
M50BMDYC11	6/21/2016 15:42			2.48	17700	ND			0.0017	13.2	

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M50BMDYC11	8/23/2016 12:09			4.41		ND			0.0039		
M50BMDYC11	10/4/2016 10:45			3.11		ND			0.0044		
M50BMDYC12	6/13/2012 18:32			1.86	13400				0.0015	9.88	215.2
Y23CABNC08	4/22/2013 11:16			90.2	13100				0.0876	16.1	22.9
Y23CABNC08	6/24/2013 11:34			189	13000				0.2007	15.8	46.2
Y23CABNC08	8/5/2013 13:10			118	13100				0.1065	12.7	62.6
Y23CABNC08	10/22/2013 8:54			22.2	14500				0.0202	11.7	113
Y23CABNC08	4/16/2014 12:05	ND		1.52	15300	ND	ND		0.0011	13.6	69.4
Y23CABNC08	6/25/2014 15:03	ND	0.01	1.83		ND	ND	ND	0.0006		
Y23CABNC08	8/13/2014 13:22	0.03	0.06	0.47		ND	ND	ND	0.0004		
Y23CABNC08	10/24/2014 14:30	0.16	0.03	0.71		ND	ND	ND	0.0005		
Y23CABNC08	4/29/2015 19:30			0.68		ND			0.0003		
Y23CABNC08	6/18/2015 18:56			1.85	20500	ND			0.001	14.6	
Y23CABNC08	8/6/2015 9:17			0.4		ND			0.0003		
Y23CABNC08	10/21/2015 14:42			0.41		ND			ND		
Y23CABNC08	6/23/2016 16:07			66.2	15400	0.0009			0.0542	16.2	
Y23CABNC08	8/25/2016 8:22			2.07		0.0005			0.0017		
Y23CABNC08	10/5/2016 14:38			202		0.0015			0.148		
Y23CEDRC04	4/22/2013 9:00			132	14700				0.1106	16.2	39.4
Y23CEDRC04	6/24/2013 9:16			236	14800				0.1932	14.3	138
Y23CEDRC04	8/5/2013 9:35			280	15500				0.2377	15.1	96.3
Y23CEDRC04	10/21/2013 15:00			390	18100				0.3805	15.6	164
Y23CEDRC04	10/21/2013 15:00			92.9	19200				0.0826	15	46.5
Y23CEDRC04	4/16/2014 8:00			0.74	18900	ND			0.0006	14.6	71.1
Y23CEDRC04	4/16/2014 8:00	ND		0.72	18900	ND	ND		0.0006	14.8	71
Y23CEDRC04	6/25/2014 13:05	ND	ND	0.31		ND	ND	ND	ND		
Y23CEDRC04	8/13/2014 11:14	0.1	ND	3.97		ND	ND	ND	0.0027		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
Y23CEDRC04	10/24/2014 12:15	ND	ND	0.46		ND	ND	ND	0.0003		
Y23CEDRC04	4/30/2015 8:45			0.51		ND			0.0004		
Y23CEDRC04	6/19/2015 17:37			34.7	17900	ND			0.0209	13.8	
Y23CEDRC04	8/5/2015 15:48			4.46		ND			0.0028		
Y23CEDRC04	10/21/2015 12:56			0.77		ND			0.0009		
Y23CEDRC04	6/22/2016 20:21			0.66	16600	ND			0.0005	15.5	
Y23CEDRC04	8/24/2016 14:24			5.2		ND			0.0037		
Y23CEDRC04	10/5/2016 12:33			296					0.229		
M51CHLYC04	6/13/2012 13:53			0.26	14700				ND	10.7	633.7
M51CHLYC04	7/11/2012 18:00			0.24	12800				ND	9.11	390
M51CHLYC04	10/17/2012 16:10			0.92	14900				0.0007	8.62	677
M51CHLYC04	4/23/2013 11:30			0.3	11200				ND	8.69	139
M51CHLYC04	6/25/2013 12:12			0.13	11000				ND	8.64	274
M51CHLYC04	8/6/2013 16:25			0.07	12600				ND	10	383
M51CHLYC04	10/23/2013 11:30			0.17	13600				ND	9.46	360
M51CHLYC04	4/15/2014 11:13	0.02		0.94	15600	ND	ND		0.0007	9.97	208
M51CHLYC04	6/24/2014 10:47	0.02	0.02	0.09		ND	ND	ND	ND		
M51CHLYC04	8/12/2014 10:32	0.13	0.13	0.42		ND	ND	ND	0.0003		
M51CHLYC04	10/23/2014 10:00	0.03	0.03	0.24		ND	ND	ND	ND		
M51CHLYC04	4/28/2015 11:00			0.88		ND			0.0007		
M51CHLYC04	6/17/2015 11:22			0.16	13900	ND			ND	9.16	
M51CHLYC04	8/4/2015 10:42			0.45		ND			ND		
M51CHLYC04	10/20/2015 10:09			0.61		ND			0.0004		
M51CHLYC04	6/21/2016 12:56			0.39	14400	ND			0.0004	10.8	
M51CHLYC04	8/23/2016 10:31			0.47		ND			0.0005		
M51CHLYC04	10/4/2016 9:35			0.92		ND			0.0006		
M51CHLYC05	6/13/2012 15:49			1.46	17100				0.0012	12.2	195.7

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M51CHLYC05	7/11/2012 16:30			0.91	17400				0.0006	11.5	185
M51CHLYC05	10/17/2012 14:23			105	14900				0.0916	11.4	49.9
M51CHLYC05	4/23/2013 9:52			2.34	15100				0.0019	12.3	166
M51CHLYC05	6/25/2013 10:24			6.76	13900				0.0046	12.6	171
M51CHLYC05	8/6/2013 14:56			41.5	17400				0.0266	12.2	192
M51CHLYC05	10/23/2013 9:50			0.9	17100				0.0007	9.95	268
M51CHLYC05	4/15/2014 9:45	ND		0.77	16900	ND	ND		0.0006	10.1	134
M51CHLYC05	6/24/2014 9:11	0.02	0.04	1.18		ND	ND	ND	0.0009		
M51CHLYC05	8/12/2014 8:58	0.05	0.04	4.2		ND	0.0011	ND	0.0026		
M51CHLYC05	10/23/2014 9:00	0.29	0.03	1.92		ND	0.0003	ND	0.0012		
M51CHLYC05	4/28/2015 9:51			1.9		ND			0.0012		
M51CHLYC05	6/17/2015 9:21			0.71	19600	ND			0.0004	12.3	
M51CHLYC05	8/4/2015 9:20			0.68		ND			0.0004		
M51CHLYC05	10/20/2015 8:54			0.46		ND			ND		
M51CHLYC05	6/21/2016 10:43			13.8	14900	ND			0.0074	13.7	
M51CHLYC05	8/23/2016 9:08			1.37		0.0006			0.0016		
M51CHLYC05	10/4/2016 8:22			313					0.229		
Y23DRMFC01	6/24/2014 19:41	0.1	0.11	0.25		ND	ND	ND	0.0011		
Y23DRMFC01	8/13/2014 9:06	0.21	0.14	1.43		ND	ND	ND	0.0003		
Y23DRMFC01	8/13/2014 9:06	0.23	0.13	1.38		ND	ND	ND	0.0004		
Y23DRMFC01	10/24/2014 8:20	0.02	0.11	1.03	17300	ND	ND	ND	0.0005	11.4	
Y23DRMFC01	4/29/2015 11:00			0.34		ND			ND		
Y23DRMFC01	4/29/2015 11:00			0.34		ND			ND		
Y23DRMFC01	6/19/2015 12:00			0.63	16900	ND			ND	10.5	
Y23DRMFC01	8/5/2015 12:14										
Y23DRMFC01	10/21/2015 9:58			0.81		ND			ND		
Y23DRMFC01	10/21/2015 10:08			0.82		ND			ND		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
Y23DRMFC01	6/22/2016 15:47										
Y23DRMFC01	8/24/2016 12:10										
Y23DEERC01	6/25/2014 8:11	0.02	0.02	0.54		ND	ND	ND	0.0004		
Y23DEERC01	6/25/2014 8:11	0.02	0.02	0.54		ND	ND	ND	0.0004		
Y23DEERC01	8/13/2014 7:14	0.13	ND	0.52		ND	ND	ND	0.0004		
Y23DRSFC01	10/24/2014 9:54	0.02	0.05	0.86	9700	ND	ND	ND	0.0005	9.71	
Y23DRSFC01	10/24/2014 9:54	0.02	0.05	1.24	10000	ND	ND	ND	0.0006	9.76	
Y23DRSFC01	4/29/2015 12:15			0.24		ND			ND		
Y23DRSFC01	6/19/2015 14:02			0.24	12700	ND			ND	9.5	
Y23DRSFC01	8/5/2015 13:24			0.68		ND			ND		
Y23DRSFC01	10/21/2015 11:30										
Y23DRSFC01	6/22/2016 16:56			0.37	14700	ND			ND	14.1	
Y23DRSFC01	8/24/2016 12:54										
Y23DRSFC01	10/5/2016 11:00										
M51FORMC04	4/23/2013 16:30			0.43	10300				ND	9.86	107
M51FORMC04	6/25/2013 14:13			0.21	8720				ND	9.34	173
M51FORMC04	6/25/2013 14:13			0.21	9350				ND	10.4	176
M51FORMC04	10/23/2013 13:58			0.2	13300				ND	9.41	204
M51FORMC04	4/15/2014 15:00	0.03		1.65	12400	ND	ND		0.0011	9.89	140
M51FORMC04	6/24/2014 13:53	0.04	0.04	0.24		ND	ND	ND	ND		
M51FORMC04	8/12/2014 13:40	0.15	0.11	1.11		ND	ND	ND	0.0013		
M51FORMC04	10/23/2014 12:30	0.27	ND	0.8		ND	ND	ND	0.0005		
M51FORMC04	4/28/2015 19:15			1.5		ND			0.0011		
M51FORMC04	4/28/2015 19:15			1.19		ND			0.0009		
M51FORMC04	6/17/2015 17:57			0.69	17100	ND			0.0005	11.1	
M51FORMC04	8/5/2015 8:38			2.11		ND			0.0019		
M51FORMC04	10/20/2015 18:31			0.58		ND			ND		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M51FORMC04	6/22/2016 8:09			0.63	16900	ND			0.0004	13.1	
M51FORMC04	8/24/2016 8:09			0.6		0.0004			0.001		
M51FORMC04	10/4/2016 16:03			2.22		ND			0.0014		
Y23FXEFC01	10/23/2014 14:10	0.3	0.07	0.88	7150	ND	ND	ND	ND	5.46	
Y23FXEFC02	4/29/2015 9:00			0.23		ND			ND		
Y23FXEFC02	6/18/2015 14:02			0.18	12400	ND			ND	9	
Y23FXEFC02	8/5/2015 10:16			0.13		ND			ND		
Y23FXEFC02	10/21/2015 7:35			0.75		ND			0.0005		
Y23FXEFC02	6/22/2016 11:22			3.3	18900	ND			0.002	14.7	
Y23FXEFC02	6/22/2016 11:22			2.76	16000	ND			0.0017	13.4	
Y23FXEFC02	8/24/2016 9:58			1.14		ND			0.0009		
Y23FXEFC02	10/5/2016 7:55			0.51		ND			0.0004		
Y23FXEFC02	10/5/2016 7:55			0.49		ND			0.0004		
Y27LBVRC13	4/22/2013 16:30			2.21	15400				0.0016	15.5	50.2
Y27LBVRC13	6/24/2013 16:56			2.99	13400				0.0033	14.3	59.8
Y27LBVRC13	8/5/2013 17:05			9.94	14800				0.0098	14.6	13.8
Y27LBVRC13	10/22/2013 13:40			1.34	19900				0.0014	14.3	52.2
Y27LBVRC13	4/16/2014 16:00	ND		0.54	16300	ND	ND		0.0004	14.1	54.7
Y27LBVRC13	6/25/2014 18:35	0.02	0.02	1.37		ND	ND	ND	0.0018		49
Y27LBVRC13	8/13/2014 16:26	0.12	ND	1.6		ND	ND	ND	0.0029		
Y27LBVRC13	10/24/2014 16:50	0.04	ND	0.19		ND	ND	ND	ND		
Y27LBVRC13	4/29/2015 15:40			1.26		ND			0.0011		
Y27LBVRC13	8/6/2015 13:52			1.61	16800	ND			0.0014	11	
Y27LBVRC13	10/21/2015 17:07			0.94		ND			0.0008		
Y27LBVRC13	6/23/2016 20:42			1.35	25300	ND			0.0014	16.8	
Y27LBVRC13	8/25/2016 12:59			4.1		ND			0.0031		
Y27LBVRC13	10/6/2016 7:43			4.63		0.0004			0.0036		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M42LBOXC05	6/12/2012 14:38			8.22	14100				0.0067	12.5	16.7
M42LBOXC05	7/10/2012 19:05			1.92	12100				0.0015	9.74	18.4
M42LBOXC05	10/16/2012 9:20			0.71	11800				0.0005	10.2	22.9
M42LBOXC06	4/23/2013 10:40			0.51	9780				0.0003	10.1	22
M42LBOXC06	4/23/2013 10:40			0.51	10600				0.0005	10.4	20.1
M42LBOXC06	6/17/2013 17:15			5.92	9450				0.0043	8.24	21
M42LBOXC06	8/18/2013 17:45			0.42	11000				0.0003	9.13	22.1
M42LBOXC06	10/7/2013 16:15			0.47	11200				0.0004	9.63	25.7
M42LBOXC05	4/14/2014 15:30	0.05		1.15	12200	ND	0.0004		0.0008	9.64	22.1
M42LBOXC05	6/23/2014 14:30	0.02		1.59		ND	ND		0.0014		
M42LBOXC06	8/11/2014 14:10	ND	ND	0.74		ND	0.0003	ND	0.0007		
M42LBOXC05	10/22/2014 13:30	0.1	ND	0.59		ND	ND	ND	0.0005		
M42LBOXC05	4/27/2015 15:15			0.78		ND			0.0006		
M42LBOXC05	6/16/2015 14:23			1.88	14500	ND			0.0013	12.6	
M42LBOXC05	6/16/2015 14:24			1.82	13900	ND			0.0013	12.1	
M42LBOXC05	8/3/2015 16:33			1.33		ND			0.001		
M42LBOXC05	8/3/2015 16:47			1.36		ND			0.001		
M42LBOXC05	10/19/2015 13:00			0.57		ND			0.0003		
M42LBOXC05	6/20/2016 16:01			2.85	13900	ND			0.0017	12.7	
M42LBOXC05	8/22/2016 15:43			0.87		ND			0.0007		
M42LBOXC05	10/3/2016 13:05			0.88		ND			0.0006		
M50MEDL01	4/28/2015 17:15			2.32		ND			0.0017		
M50MEDL01	6/18/2015 9:44			0.44	20500	ND			ND	13.2	
M50MEDL01	6/18/2015 10:01			0.38	20000	ND			ND	13	
M50MEDL01	8/4/2015 14:00			3.35		ND			0.002		
M50MEDL01	8/4/2015 14:12			4.38		ND			0.0027		
M50MEDL01	10/20/2015 16:08			1.94		ND			0.0013		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M50MEDL01	10/20/2015 16:18			1.99		ND			0.0013		
M50MEDL01	6/23/2016 9:08			1.57	17300	ND			0.001	13.6	
M50MEDL01	6/23/2016 9:08			1.84	21500	ND			0.0012	17.5	
M50MEDL01	8/23/2016 17:36			2.23		ND			0.0015		
M50MEDL01	8/23/2016 17:36			2.27		ND			0.0016		
M50MEDL01	10/4/2016 12:24			2.55		ND			0.0016		
M50MEDL01	10/4/2016 12:24			2.04		ND			0.0012		
Y22PENELC02	4/22/2013 12:40			1.27	16600				0.0009	15	232
Y22PENELC02	6/24/2013 13:18			53.4	13700				0.0564	17.2	36.6
Y22PENELC02	8/5/2013 15:05			1.18	16500				0.0007	14.5	510
Y22PENELC02	10/22/2013 10:26			1.87	20400				0.0018	16.5	114
Y22PENELC02	4/16/2014 13:30	ND		1.05	18600	ND	ND		0.0005	15.8	114
Y22PENELC02	6/25/2014 16:55	0.02	0.02	0.69		ND	ND	ND	0.0006		
Y22PENELC02	8/13/2014 14:40	0.14	ND	0.6		ND	ND	ND	0.0004		
Y22PENELC02	10/24/2014 15:56	0.03	ND	0.85		ND	ND	ND	0.0004		
Y22PENELC02	4/29/2015 18:15			0.32		ND			ND		
Y22PENELC02	6/18/2015 20:42			1.03	21300	ND			0.0005	15.7	
Y22PENELC02	8/6/2015 10:50			0.88		ND			0.0006		
Y22PENELC02	10/21/2015 15:46			0.81		ND			0.0006		
Y22PENELC02	6/23/2016 18:27			0.57	16500	ND			0.0004	15	
Y22PENELC02	8/25/2016 10:11			0.98		ND			0.0013		
Y22PENELC02	10/5/2016 15:48			5.31		0.0008			0.0039		
Y22SNSTC04	4/22/2013 14:15			0.57	14100				0.0008	13.5	81.4
Y22SNSTC04	6/24/2013 15:00			9.78	10400				0.0079	12.4	36.6
Y22SNSTC04	8/6/2013 8:40			3.49	11800				0.0032	12.9	44.3
Y22SNSTC04	10/22/2013 11:51			1.03	16800				0.0011	14	88.3
Y22SNSTC04	4/16/2014 18:00	ND		1.32	13700	ND	ND		0.0011	13.8	88.5

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
Y22SNSTC04	6/25/2014 20:20	ND	ND	1		ND	ND	ND	0.0018		
Y22SNSTC04	8/13/2014 17:53	0.14	ND	0.61		ND	0.0004	ND	0.0009		
Y22SNSTC04	10/24/2014 18:15	0.15	ND	0.87		ND	ND	ND	0.0008		
Y22SNSTC04	4/29/2015 17:15			1.73		ND			0.0018		
Y22SNSTC04	6/19/2015 7:51			2.2	16300	ND			0.0019	15.5	
Y22SNSTC04	8/6/2015 11:51			0.84		ND			0.0012		
Y22SNSTC04	10/22/2015 7:35			0.85		ND			0.0007		
Y22SNSTC04	6/24/2016 8:20			1.39	13500	ND			0.0014	14	
Y22SNSTC04	8/25/2016 11:23			1.75		ND			0.0015		
Y22SNSTC04	10/6/2016 9:20			2.13		ND			0.0017		
M52ULDSP01	4/28/2015 14:45			0.98		ND			0.0009		
M52ULDSP01	8/4/2015 16:22			1.95	11500	ND			0.0014	9	
M52ULDSP01	10/20/2015 13:46			1.27		ND			0.001		
M52ULDSP01	8/23/2016 14:40			0.25		0.0011			0.0016		
M52ULDSP01	8/23/2016 14:40			0.18	1810	ND			ND	ND	
M39WHTWC09	7/11/2012 10:00			0.17	13500				ND	9.29	65.5
M39WHTWC09	10/16/2012 13:15			0.66	15100				0.0006	10.6	90.4
M39WHTWC09	4/23/2013 15:15			1.33	13600				0.0008	11.4	21.2
M39WHTWC09	6/18/2013 11:20										
M39WHTWC09	6/18/2013 11:30			1.19	12100				0.0009	9.74	25.4
M39WHTWC09	8/19/2013 11:30			0.5	15000				0.0004	11	78.7
M39WHTWC09	10/8/2013 10:45			3.57	13900				ND	10.1	90.2
M39WHTWC09	4/14/2014 19:00	0.02		1.17	15600	ND	ND		0.0006	10.7	21.6
M39WHTWC09	6/23/2014 17:43	0.01		0.79		ND	ND		ND		
M39WHTWC09	8/11/2014 17:10	0.04	0.02	0.57		ND	ND	ND	0.0007		
M39WHTWC09	10/22/2014 18:45	0.08	ND	0.29		ND	ND	ND	ND		
M39WHTWC09	4/27/2015 18:30			0.18		ND			ND		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M39WHTWC09	6/16/2015 18:25			1.04	16600	ND			0.0007	10.5	
M39WHTWC09	8/3/2015 19:11			1.67		ND			0.0015		
M39WHTWC09	10/19/2015 15:46			1.79		ND			0.0011		
M39WHTWC09	6/20/2016 20:17			1.4	13100	ND			0.001	8.73	
M39WHTWC09	8/22/2016 18:40			0.83		ND			0.0007		
M39WHTWC09	10/3/2016 15:59			2.08		ND			0.0012		
M39WHTWC10	6/12/2012 18:33			1.48	16800				0.0011	12.2	56.2
M17WILOC03	4/22/2013 18:20			0.3	10900				ND	10.8	148
M17WILOC03	6/17/2013 13:30			0.17	12500				ND	10.1	218
M17WILOC03	6/17/2013 13:30			0.16	13200				ND	10.4	223
M17WILOC03	8/18/2013 13:55			0.29	12700				0.0003	10.6	314
M17WILOC03	8/18/2013 13:55			0.19	12900				ND	10.8	316
M17WILOC03	10/7/2013 12:50			0.71	8270				0.0005	6.85	353
M17WILOC03	10/7/2013 13:00			0.4	9560				ND	8.56	319
M17WILOC02	6/12/2012 10:45			0.17	14900				ND	10.8	223
M17WILOC02	6/18/2012 11:23										
M17WILOC02	6/18/2012 11:25										
M17WILOC02	7/10/2012 15:50			0.09	13100				ND	10.1	348
M17WILOC02	10/15/2012 16:37			0.27	13800				ND	10.6	516
M17WILOC02	8/11/2014 10:45	ND	ND	0.2		ND	ND	ND	0.0006		
M17WILOC04	4/14/2014 11:35	0.03		0.58	14800	ND	ND		0.0004	10.7	159
M17WILOC04	6/23/2014 11:30	0.02		0.11		ND	ND		ND		
M17WILOC04	10/22/2014 10:15	0.28	ND	3.24		ND	ND	ND	0.0004		
M17WILOC04	4/27/2015 12:00			0.34		ND			ND		
M17WILOC04	6/16/2015 10:28			0.13	19200	ND			ND	14.1	
M17WILOC04	8/3/2015 14:10			0.7		ND			0.0012		
M17WILOC04	10/19/2015 10:08			2.06		ND			0.0024		

Station ID	Activity Start	Iron~~ Dissolved	Iron~~ Dissolved	Iron~~ Total Recoverable	Iron~~ Total Recoverable~~~~ Dry	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Dissolved	Lead~~ Total Recoverable	Lead~~ Total Recoverable~~~~ Dry	Magnesium~~ Free Available
				1					0.4768/0.0186 0.015		
		mg/l	mg/l	mg/l	mg/kg	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/l
M17WILOC04	6/20/2016 12:45			0.16	19400	ND			ND	13.7	
M17WILOC04	8/22/2016 12:46			0.94		ND			0.0011		
M17WILOC04	10/3/2016 10:29			0.37		ND			0.0006		
M17WLWFC01	6/12/2012 11:45										

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
Y23BENPC03	4/23/2013 18:00									ND	0.03
Y23BENPC03	6/25/2013 16:30									ND	0.04
Y23BENPC03	8/7/2013 10:32									0.0087	0.03
Y23BENPC03	8/7/2013 10:32									0.0086	0.03
Y23BENPC03	10/23/2013 15:30									0.0055	0.03
Y23BENPC03	4/15/2014 18:13					0.291	ND		0.395	0.0116	0.03
Y23BENPC03	6/24/2014 16:36				77.9	0.024	0.052	0.057	0.121		
Y23BENPC03	8/12/2014 15:11	83	77	83	79	0.023	0.043	0.017	0.08		
Y23BENPC03	10/23/2014 15:35	78	80	78	83	0.03	0.025	0.028	0.057		
M50BMDYC11	7/12/2012 9:30									0.0126	0.05
M50BMDYC11	7/12/2012 9:45										
M50BMDYC11	10/17/2012 11:00									ND	0.04
M50BMDYC11	10/17/2012 11:15									ND	
M50BMDYC11	4/23/2013 13:30									0.0061	
M50BMDYC11	4/23/2013 13:30									0.0062	
M50BMDYC11	6/25/2013 8:16									ND	0.04
M50BMDYC11	8/6/2013 13:03									0.005	0.04
M50BMDYC11	10/23/2013 7:50									ND	0.04
M50BMDYC11	4/15/2014 12:34					0.007	ND		0.075	ND	0.03
M50BMDYC11	6/24/2014 12:11					ND	ND	ND	0.149		
M50BMDYC11	8/12/2014 11:40	108	97	109	106	ND	ND	ND	0.123		
M50BMDYC11	10/23/2014 11:15	89	91	92	95	0.004	0.01	0.002	0.04		
M50BMDYC11	4/28/2015 12:15	119			116	0.017			0.166	0.0057	
M50BMDYC11	6/17/2015 13:21	97			96	ND			0.141	ND	ND
M50BMDYC11	8/4/2015 12:15	88			91	ND			0.1	ND	
M50BMDYC11	10/20/2015 11:24	133			131	0.002			0.124	ND	
M50BMDYC11	6/21/2016 15:42	176			180	0.011			0.092	0.0063	ND

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M50BMDYC11	8/23/2016 12:09	149			147	ND			0.19	0.0071	
M50BMDYC11	10/4/2016 10:45	138			146	ND			0.188	ND	
M50BMDYC12	6/13/2012 18:32									0.0059	0.04
Y23CABNC08	4/22/2013 11:16									0.469	0.08
Y23CABNC08	6/24/2013 11:34									0.881	0.08
Y23CABNC08	8/5/2013 13:10									0.587	0.06
Y23CABNC08	10/22/2013 8:54									0.0979	0.06
Y23CABNC08	4/16/2014 12:05					0.435	0.259		0.489	0.0117	0.07
Y23CABNC08	6/25/2014 15:03				177	0.263	0.285	0.287	0.602	ND	
Y23CABNC08	8/13/2014 13:22	67	62	67	34	0.331	0.311	0.329	0.198	0.0057	
Y23CABNC08	10/24/2014 14:30	112	111	118	114	0.544	0.526	0.571	0.534	ND	
Y23CABNC08	4/29/2015 19:30	239			255	0.303			0.508	ND	
Y23CABNC08	6/18/2015 18:56	81			75	0.168			0.311	0.0067	0.056
Y23CABNC08	8/6/2015 9:17	218			218	0.472			0.537	ND	
Y23CABNC08	10/21/2015 14:42	160			142	0.099			0.198	ND	
Y23CABNC08	6/23/2016 16:07	11			30	0.006			0.927	0.2	0.07
Y23CABNC08	8/25/2016 8:22	24			25	0.053			0.128	0.0125	
Y23CABNC08	10/5/2016 14:38	6			63	0.006			2.32	0.556	
Y23CEDRC04	4/22/2013 9:00									0.532	0.07
Y23CEDRC04	6/24/2013 9:16									0.847	0.07
Y23CEDRC04	8/5/2013 9:35									1.52 - v	0.07
Y23CEDRC04	10/21/2013 15:00									0.41	0.08
Y23CEDRC04	10/21/2013 15:00									0.498	0.08
Y23CEDRC04	4/16/2014 8:00					0.222			0.242	0.0068	0.07
Y23CEDRC04	4/16/2014 8:00					0.219	ND		0.238	0.0064	0.06
Y23CEDRC04	6/25/2014 13:05				78.2	0.122	0.142	0.143	0.192	ND	
Y23CEDRC04	8/13/2014 11:14	263	245	265	259	0.884	0.776	0.801	0.889	0.0058	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
Y23CEDRC04	10/24/2014 12:15	96	89	94	93	0.072	0.058	0.071	0.104	ND	
Y23CEDRC04	4/30/2015 8:45	236			263	0.074			0.098	ND	
Y23CEDRC04	6/19/2015 17:37	79			82	0.046			0.471	0.0794	0.066
Y23CEDRC04	8/5/2015 15:48	21			23	ND			0.068	0.0168	
Y23CEDRC04	10/21/2015 12:56	166			158	0.959			1.18	ND	
Y23CEDRC04	6/22/2016 20:21	39			41	0.019			0.046	0.0068	0.07
Y23CEDRC04	8/24/2016 14:24	26			25	ND			0.085	0.0198	
Y23CEDRC04	10/5/2016 12:33				92				3.04	0.897	
M51CHLYC04	6/13/2012 13:53									ND	0.03
M51CHLYC04	7/11/2012 18:00									0.0096	0.04
M51CHLYC04	10/17/2012 16:10									ND	0.03
M51CHLYC04	4/23/2013 11:30									ND	0.02
M51CHLYC04	6/25/2013 12:12									ND	0.03
M51CHLYC04	8/6/2013 16:25									ND	0.03
M51CHLYC04	10/23/2013 11:30									ND	0.03
M51CHLYC04	4/15/2014 11:13					0.121	ND		0.162	ND	0.03
M51CHLYC04	6/24/2014 10:47				458	0.045	0.044	0.043	0.054		
M51CHLYC04	8/12/2014 10:32	506	448	503	475	0.413	0.384	0.393	0.426		
M51CHLYC04	10/23/2014 10:00	396	409	384	407	0.059	0.045	0.062	0.077		
M51CHLYC04	4/28/2015 11:00	308			350	0.201			0.259	ND	
M51CHLYC04	6/17/2015 11:22	407			387	0.017			0.02		ND
M51CHLYC04	8/4/2015 10:42	335			353	0.252			0.272		
M51CHLYC04	10/20/2015 10:09	351			360	0.253			0.277		
M51CHLYC04	6/21/2016 12:56	465			480	0.041			0.066		ND
M51CHLYC04	8/23/2016 10:31	231			231	0.077			0.461		
M51CHLYC04	10/4/2016 9:35	265			278	0.084			0.114		
M51CHLYC05	6/13/2012 15:49									0.0167	0.06

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M51CHLYC05	7/11/2012 16:30									0.011	0.06
M51CHLYC05	10/17/2012 14:23									0.396	0.06
M51CHLYC05	4/23/2013 9:52									0.0105	0.05
M51CHLYC05	6/25/2013 10:24									0.024	0.07
M51CHLYC05	8/6/2013 14:56									0.174	0.06
M51CHLYC05	10/23/2013 9:50									ND	0.04
M51CHLYC05	4/15/2014 9:45					0.114	ND		0.137	ND	0.04
M51CHLYC05	6/24/2014 9:11				245	0.047	0.08	0.088	0.143	0.008	
M51CHLYC05	8/12/2014 8:58	159	168	175	167	0.388	0.321	0.353	0.79	0.0726	
M51CHLYC05	10/23/2014 9:00	204	228	211	210	0.102	0.087	0.1	0.13	ND	
M51CHLYC05	4/28/2015 9:51	277			297	0.218			0.27	ND	
M51CHLYC05	6/17/2015 9:21	291			278	0.048			0.067	ND	ND
M51CHLYC05	8/4/2015 9:20	216			224	0.232			0.283	ND	
M51CHLYC05	10/20/2015 8:54	180			195	0.616			0.659	ND	
M51CHLYC05	6/21/2016 10:43	134			143	0.098			0.24	0.0994	0.06
M51CHLYC05	8/23/2016 9:08	174			170	0.05			0.089	0.027	
M51CHLYC05	10/4/2016 8:22				97				4.21	0.852	
Y23DRMFC01	6/24/2014 19:41				227	0.094	0.1	0.097	0.114	ND	
Y23DRMFC01	8/13/2014 9:06	287	252	268	276	1.06	0.966	1.03	1.11	ND	
Y23DRMFC01	8/13/2014 9:06	285	260	288	277	1.06	0.974	1.09	1.1	ND	
Y23DRMFC01	10/24/2014 8:20	207	209	213	214	0.198	0.227	0.224	0.245	ND	ND
Y23DRMFC01	4/29/2015 11:00	219			200	0.088			0.095	ND	
Y23DRMFC01	4/29/2015 11:00	216			199	0.09			0.096	ND	
Y23DRMFC01	6/19/2015 12:00	240			253	0.234			0.243	ND	ND
Y23DRMFC01	8/5/2015 12:14										
Y23DRMFC01	10/21/2015 9:58	265			253	0.239			0.237	ND	
Y23DRMFC01	10/21/2015 10:08	265			253	0.239			0.244	ND	

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
Y23DRMFC01	6/22/2016 15:47										
Y23DRMFC01	8/24/2016 12:10										
Y23DEERC01	6/25/2014 8:11				162	0.066	0.08	0.084	0.11	ND	
Y23DEERC01	6/25/2014 8:11				161	0.068	0.08	0.084	0.111	ND	
Y23DEERC01	8/13/2014 7:14	138	127	138	131	0.037	0.038	0.028	0.069	ND	
Y23DRSFC01	10/24/2014 9:54	531	533	530	516	0.502	0.534	0.268	0.461	ND	ND
Y23DRSFC01	10/24/2014 9:54	505	531	518	520	0.477	0.541	0.318	0.555	ND	ND
Y23DRSFC01	4/29/2015 12:15	303			299	0.122			0.127	ND	
Y23DRSFC01	6/19/2015 14:02	425			451	2.9			2.94	ND	ND
Y23DRSFC01	8/5/2015 13:24	580			606	3.95			3.83	0.0099	
Y23DRSFC01	10/21/2015 11:30										
Y23DRSFC01	6/22/2016 16:56	969			1000	1.4			1.61	0.0051	ND
Y23DRSFC01	8/24/2016 12:54										
Y23DRSFC01	10/5/2016 11:00										
M51FORMC04	4/23/2013 16:30									ND	0.03
M51FORMC04	6/25/2013 14:13									ND	0.03
M51FORMC04	6/25/2013 14:13									ND	0.03
M51FORMC04	10/23/2013 13:58									ND	0.03
M51FORMC04	4/15/2014 15:00					0.131	ND		0.171	ND	0.03
M51FORMC04	6/24/2014 13:53				178	0.016	0.017	0.046	0.031		
M51FORMC04	8/12/2014 13:40	245	219	244	232	0.262	0.252	0.266	0.447		
M51FORMC04	10/23/2014 12:30	208	209	209	215	0.289	0.21	0.293	0.32		
M51FORMC04	4/28/2015 19:15	184			171	0.112			0.161	ND	
M51FORMC04	4/28/2015 19:15	183			172	0.111			0.152	ND	
M51FORMC04	6/17/2015 17:57	185			195	0.017			0.036	ND	ND
M51FORMC04	8/5/2015 8:38	333			310	0.08			0.144	0.0804	
M51FORMC04	10/20/2015 18:31	168			163	0.16			0.174	ND	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M51FORMC04	6/22/2016 8:09	170			175	0.088			0.098	ND	ND
M51FORMC04	8/24/2016 8:09	225			220	0.012			0.09	ND	
M51FORMC04	10/4/2016 16:03	142			144	0.35			0.452	ND	
Y23FXEFC01	10/23/2014 14:10	1870	1910	1880	1930	1.04	1.02	1.06	1.02	ND	ND
Y23FXEFC02	4/29/2015 9:00	461			460	0.028			0.028		
Y23FXEFC02	6/18/2015 14:02	493			570	0.015			0.025	ND	ND
Y23FXEFC02	8/5/2015 10:16	748			779	0.047			0.061	0.0065	
Y23FXEFC02	10/21/2015 7:35	1100			1050	0.328			0.377	ND	
Y23FXEFC02	6/22/2016 11:22	530			529	0.031			0.209	ND	ND
Y23FXEFC02	6/22/2016 11:22	531			542	0.032			0.187	0.0127	ND
Y23FXEFC02	8/24/2016 9:58	498			491	0.312			0.356	ND	
Y23FXEFC02	10/5/2016 7:55	402			423	0.07			0.102	ND	
Y23FXEFC02	10/5/2016 7:55	412			420	0.067			0.103	ND	
Y27LBVRC13	4/22/2013 16:30									0.0056	0.05
Y27LBVRC13	6/24/2013 16:56									0.0106	0.05
Y27LBVRC13	8/5/2013 17:05									0.0399	0.04
Y27LBVRC13	10/22/2013 13:40									0.0058	0.05
Y27LBVRC13	4/16/2014 16:00					0.067	ND		0.105	ND	0.05
Y27LBVRC13	6/25/2014 18:35					ND	ND	ND	0.188		
Y27LBVRC13	8/13/2014 16:26	38	35	38	38	0.013	0.021	ND	0.126		
Y27LBVRC13	10/24/2014 16:50	44	44	44	43	0.012	0.006	0.01	0.022		
Y27LBVRC13	4/29/2015 15:40	61			58	0.037			0.173	ND	
Y27LBVRC13	8/6/2015 13:52	40			41	0.016			0.148		ND
Y27LBVRC13	10/21/2015 17:07	49			44	0.012			0.064		
Y27LBVRC13	6/23/2016 20:42	43			47	ND			0.11	ND	
Y27LBVRC13	8/25/2016 12:59	44			44	0.007			0.206		
Y27LBVRC13	10/6/2016 7:43	23			25	0.005			0.136		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M42LBOXC05	6/12/2012 14:38									0.0106	0.04
M42LBOXC05	7/10/2012 19:05									0.0113	0.05
M42LBOXC05	10/16/2012 9:20									ND	0.04
M42LBOXC06	4/23/2013 10:40									ND	0.03
M42LBOXC06	4/23/2013 10:40									ND	0.03
M42LBOXC06	6/17/2013 17:15									0.0111	0.02
M42LBOXC06	8/18/2013 17:45									ND	0.03
M42LBOXC06	10/7/2013 16:15									ND	0.03
M42LBOXC05	4/14/2014 15:30					0.042	0.044		0.072	ND	0.03
M42LBOXC05	6/23/2014 14:30				23	ND	0.043		0.126		
M42LBOXC06	8/11/2014 14:10	26	24	26	24	0.062	0.082	0.062	0.14		
M42LBOXC05	10/22/2014 13:30	26	28	26	27	0.042	0.008	0.039	0.06		
M42LBOXC05	4/27/2015 15:15	22			23	0.039			0.064	ND	
M42LBOXC05	6/16/2015 14:23	24			25	0.056			0.127		ND
M42LBOXC05	6/16/2015 14:24	24			24	0.056			0.129		ND
M42LBOXC05	8/3/2015 16:33	20			21	0.025			0.08		
M42LBOXC05	8/3/2015 16:47	20			21	0.026			0.081		
M42LBOXC05	10/19/2015 13:00	35			36	0.089			0.106		
M42LBOXC05	6/20/2016 16:01	19			20	0.023			0.114	ND	
M42LBOXC05	8/22/2016 15:43	22			21	0.028			0.061		
M42LBOXC05	10/3/2016 13:05	27			28	0.05			0.08		
M50MEDL01	4/28/2015 17:15	76			78	0.005			0.077	0.0105	
M50MEDL01	6/18/2015 9:44	83			78	ND			0.012	ND	0.056
M50MEDL01	6/18/2015 10:01	81			78	ND			0.011	ND	0.062
M50MEDL01	8/4/2015 14:00	83			89	ND			0.101	0.0133	
M50MEDL01	8/4/2015 14:12	83			88	ND			0.142	0.0148	
M50MEDL01	10/20/2015 16:08	92			91	0.002			0.063	ND	

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M50MEDL01	10/20/2015 16:18	94			92	0.002			0.065	ND	
M50MEDL01	6/23/2016 9:08	96			103	ND			0.048	ND	0.05
M50MEDL01	6/23/2016 9:08	95			101	ND			0.059		ND
M50MEDL01	8/23/2016 17:36	106			103	ND			0.076	ND	
M50MEDL01	8/23/2016 17:36	106			104	ND			0.08	ND	
M50MEDL01	10/4/2016 12:24	99			105	0.005			0.077	ND	
M50MEDL01	10/4/2016 12:24	98			105	0.005			0.058	ND	
Y22PENELC02	4/22/2013 12:40									0.0075	0.05
Y22PENELC02	6/24/2013 13:18									0.261	0.07
Y22PENELC02	8/5/2013 15:05									0.0059	0.04
Y22PENELC02	10/22/2013 10:26									0.0105	0.05
Y22PENELC02	4/16/2014 13:30					0.873	0.512		0.894	ND	0.06
Y22PENELC02	6/25/2014 16:55				178	0.31	0.326	0.33	0.381	0.0051	
Y22PENELC02	8/13/2014 14:40	245	231	247	245	0.311	0.296	0.28	0.349		
Y22PENELC02	10/24/2014 15:56	185	183	188	187	2.07	1.87	2.08	1.9	ND	
Y22PENELC02	4/29/2015 18:15	199			226	0.598			0.579	ND	
Y22PENELC02	6/18/2015 20:42	335			319	0.425			0.442	ND	ND
Y22PENELC02	8/6/2015 10:50	642			617	3.82			2.9	0.0094	
Y22PENELC02	10/21/2015 15:46	431			407	0.186			0.349	ND	
Y22PENELC02	6/23/2016 18:27	269			290	0.209			0.275	0.0083	ND
Y22PENELC02	8/25/2016 10:11	308			322	0.218			0.692	ND	
Y22PENELC02	10/5/2016 15:48	37			38	0.224			0.282	0.0179	
Y22SNSTC04	4/22/2013 14:15									ND	0.04
Y22SNSTC04	6/24/2013 15:00									0.026	0.04
Y22SNSTC04	8/6/2013 8:40									0.0129	0.04
Y22SNSTC04	10/22/2013 11:51									ND	0.05
Y22SNSTC04	4/16/2014 18:00					0.22	ND		0.279	0.0056	0.05

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
Y22SNSTC04	6/25/2014 20:20				183	0.321	0.43	0.424	0.691		
Y22SNSTC04	8/13/2014 17:53	138	128	137	137	0.362	0.407	0.34	0.492		
Y22SNSTC04	10/24/2014 18:15	200	198	198	197	0.134	0.092	0.128	0.189		
Y22SNSTC04	4/29/2015 17:15	150			140	0.814			0.938	0.0062	
Y22SNSTC04	6/19/2015 7:51	148			161	0.404			0.541	ND	ND
Y22SNSTC04	8/6/2015 11:51	115			117	0.159			0.371		
Y22SNSTC04	10/22/2015 7:35	120			107	0.033			0.096		
Y22SNSTC04	6/24/2016 8:20	86			90	0.219			0.41	ND	
Y22SNSTC04	8/25/2016 11:23	92			92	1.28			1.44		
Y22SNSTC04	10/6/2016 9:20	51			52	0.115			0.186		
M52ULDSP01	4/28/2015 14:45	742			741	0.251			0.455	0.0084	
M52ULDSP01	8/4/2015 16:22	1110			1120	0.009			0.131	0.0125	ND
M52ULDSP01	10/20/2015 13:46	1200			1250	0.059			0.15	0.0051	
M52ULDSP01	8/23/2016 14:40	1970			1970	0.091			0.388	0.0222	
M52ULDSP01	8/23/2016 14:40	2000			2020	0.089			0.4	0.0215	ND
M39WHTWC09	7/11/2012 10:00									0.0134	0.03
M39WHTWC09	10/16/2012 13:15									0.0281	0.03
M39WHTWC09	4/23/2013 15:15									ND	0.03
M39WHTWC09	6/18/2013 11:20										
M39WHTWC09	6/18/2013 11:30									ND	0.03
M39WHTWC09	8/19/2013 11:30									ND	0.03
M39WHTWC09	10/8/2013 10:45									ND	0.02
M39WHTWC09	4/14/2014 19:00					0.019	ND		0.041	ND	0.03
M39WHTWC09	6/23/2014 17:43				56.8	0.064	0.111		0.138		
M39WHTWC09	8/11/2014 17:10	56	50	56	53	0.017	0.025	0.018	0.056		
M39WHTWC09	10/22/2014 18:45	53	57	52	54	0.022	0.058	0.017	0.222		
M39WHTWC09	4/27/2015 18:30	45			44	0.055			0.059	ND	

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M39WHTWC09	6/16/2015 18:25	83			79	0.041			0.122		ND
M39WHTWC09	8/3/2015 19:11	81			85	ND			0.159		
M39WHTWC09	10/19/2015 15:46	74			77	0.19			0.256		
M39WHTWC09	6/20/2016 20:17	64			66	0.018			0.211		ND
M39WHTWC09	8/22/2016 18:40	62			60	0.128			0.179		
M39WHTWC09	10/3/2016 15:59	55			57	0.117			0.207		
M39WHTWC10	6/12/2012 18:33									ND	0.04
M17WILOC03	4/22/2013 18:20									ND	0.03
M17WILOC03	6/17/2013 13:30									ND	0.03
M17WILOC03	6/17/2013 13:30									ND	0.04
M17WILOC03	8/18/2013 13:55									ND	0.03
M17WILOC03	8/18/2013 13:55									ND	0.04
M17WILOC03	10/7/2013 12:50									ND	0.02
M17WILOC03	10/7/2013 13:00									ND	0.02
M17WILOC02	6/12/2012 10:45									ND	0.05
M17WILOC02	6/18/2012 11:23										
M17WILOC02	6/18/2012 11:25										
M17WILOC02	7/10/2012 15:50									0.0095	0.06
M17WILOC02	10/15/2012 16:37									ND	0.04
M17WILOC02	8/11/2014 10:45	351	388	388	366	0.013	0.011	ND	0.204		
M17WILOC04	4/14/2014 11:35	0.033	ND		0.045					ND	0.05
M17WILOC04	6/23/2014 11:30				176	ND	0.008		0.034		
M17WILOC04	10/22/2014 10:15	354	380	379	368	0.831	0.639	0.625	1		
M17WILOC04	4/27/2015 12:00	211			205	0.033			0.073	ND	
M17WILOC04	6/16/2015 10:28	315			306	0.023			0.034		ND
M17WILOC04	8/3/2015 14:10	369			385	ND			0.282		
M17WILOC04	10/19/2015 10:08	495			503	0.087			0.368		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Magnesium~~ Dissolved	Magnesium~~ Dissolved	Magnesium ~~ Dissolved	Magnesium~~ Total Recoverable	Manganese~~Dissolved	Manganese~~ Dissolved	Manganese~~ Dissolved	Manganese~~ Total Recoverable	Mercury~~ Total	Mercury~~ Total~~~ Dry
										1.7/0.91 0.05	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/g
M17WILOC04	6/20/2016 12:45	265			270	0.042			0.049		ND
M17WILOC04	8/22/2016 12:46	455			458	0.05			0.123		
M17WILOC04	10/3/2016 10:29	528			544	0.018			0.319		
M17WLWFC01	6/12/2012 11:45										

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00				0.008	1.69	0.079	14.2				
Y23BENPC03	6/25/2013 16:30				0.01	1.22	0.064	14				
Y23BENPC03	8/7/2013 10:32				0.009	1.93	0.123	12.9				
Y23BENPC03	8/7/2013 10:32				0.009	1.93	0.127	12.8				
Y23BENPC03	10/23/2013 15:30				0.014	1.52	0.123	17.7				
Y23BENPC03	4/15/2014 18:13	0.008	0.008		0.013	2.26	0.214	12.5				
Y23BENPC03	6/24/2014 16:36	0.006	0.006	0.006	0.007	1.44	0.064					12
Y23BENPC03	8/12/2014 15:11	0.004	0.004	0.003	0.005	1.3	0.103		14	14	13	14
Y23BENPC03	10/23/2014 15:35	0.004	0.004	0.004	0.004	0.93	0.04		12	12	12	12
M50BMDYC11	7/12/2012 9:30				ND	1.73	0.152	12.8				
M50BMDYC11	7/12/2012 9:45											
M50BMDYC11	10/17/2012 11:00				ND	2.59	0.189	16.5				
M50BMDYC11	10/17/2012 11:15				ND	2.58	0.199	15				
M50BMDYC11	4/23/2013 13:30				0.002	1.32	0.177	11.3				
M50BMDYC11	4/23/2013 13:30				0.003	1.42	0.177	11.6				
M50BMDYC11	6/25/2013 8:16				0.008	1.42	0.169	14.6				
M50BMDYC11	8/6/2013 13:03				0.01	1.86	0.158	15.7				
M50BMDYC11	10/23/2013 7:50				0.007	1.22	0.095	11				
M50BMDYC11	4/15/2014 12:34	0.004	0.004		0.006	1.92	0.228	18.4				
M50BMDYC11	6/24/2014 12:11	0.006	0.006	0.006	0.008	1.71	0.18					16
M50BMDYC11	8/12/2014 11:40	0.004	0.004	0.004	0.007	0.85	0.348		18	15	18	19
M50BMDYC11	10/23/2014 11:15	0.003	0.003	0.003	0.004	1.12	0.107		24	23	24	23
M50BMDYC11	4/28/2015 12:15	0.003			0.006				13			13
M50BMDYC11	6/17/2015 13:21	0.004			0.008				21			21
M50BMDYC11	8/4/2015 12:15	0.003			0.006				29			29
M50BMDYC11	10/20/2015 11:24	0.004			0.006				15			15
M50BMDYC11	6/21/2016 15:42	0.004			0.006				14			14

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09	0.005			0.009				11			13
M50BMDYC11	10/4/2016 10:45	0.005			0.008				11			12
M50BMDYC12	6/13/2012 18:32				ND	5.06	0.978	25.1				
Y23CABNC08	4/22/2013 11:16				0.216	3.36	1.6	6.78				
Y23CABNC08	6/24/2013 11:34				0.364	4.47	3.13	11.8				
Y23CABNC08	8/5/2013 13:10				0.231	2.15	2.19	13.4				
Y23CABNC08	10/22/2013 8:54				0.065	3.55	0.35	11.4				
Y23CABNC08	4/16/2014 12:05	0.014	0.014		0.017	0.967	0.05	9.06				
Y23CABNC08	6/25/2014 15:03	0.022	0.022	0.023	0.014	0.962	0.038					13.6
Y23CABNC08	8/13/2014 13:22	0.013	0.013	0.013	0.008	0.9	0.053		13	12	13	6
Y23CABNC08	10/24/2014 14:30	0.015	0.014	0.015	0.016	0.77	0.037		12	12	13	12
Y23CABNC08	4/29/2015 19:30	0.012			0.012				16			21
Y23CABNC08	6/18/2015 18:56	0.013			0.016				13			12
Y23CABNC08	8/6/2015 9:17	0.008			0.008				20			19
Y23CABNC08	10/21/2015 14:42	0.01			0.01				18			17
Y23CABNC08	6/23/2016 16:07	0.018			0.132				8			15
Y23CABNC08	8/25/2016 8:22	0.02			0.022				9			10
Y23CABNC08	10/5/2016 14:38	0.012			0.34				5			32
Y23CEDRC04	4/22/2013 9:00				0.267	3.19	3.26	9.69				
Y23CEDRC04	6/24/2013 9:16				0.482	2.99	5.02	18				
Y23CEDRC04	8/5/2013 9:35				0.498	3.16	5.8	19.5				
Y23CEDRC04	10/21/2013 15:00				0.844	5.63	10	29.9				
Y23CEDRC04	10/21/2013 15:00				0.188	5.11	1.33	11.3				
Y23CEDRC04	4/16/2014 8:00	0.018			0.019	0.625	0.045	9.6				
Y23CEDRC04	4/16/2014 8:00	0.018	0.017		0.019	0.621	0.044	9.31				
Y23CEDRC04	6/25/2014 13:05	0.02	0.019	0.019	0.021	1.03	0.062					12.1
Y23CEDRC04	8/13/2014 11:14	0.013	0.012	0.012	0.018	1.55	0.154		27	26	27	27

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15	0.012	0.013	0.013	0.014	0.53	0.035		12	12	12	12
Y23CEDRC04	4/30/2015 8:45	0.016			0.017				18			23
Y23CEDRC04	6/19/2015 17:37	0.009			0.05				11			17
Y23CEDRC04	8/5/2015 15:48	0.011			0.018				12			13
Y23CEDRC04	10/21/2015 12:56	0.013			0.015				20			19
Y23CEDRC04	6/22/2016 20:21	0.011			0.013				11			11
Y23CEDRC04	8/24/2016 14:24	0.015			0.023				10			10
Y23CEDRC04	10/5/2016 12:33				0.512				42			0.012
M51CHLYC04	6/13/2012 13:53				ND	2.88	0.144	25.4				
M51CHLYC04	7/11/2012 18:00				ND	2.13	0.084	14.1				
M51CHLYC04	10/17/2012 16:10				ND	3.31	0.258	32.5				
M51CHLYC04	4/23/2013 11:30				0.003	1.09	0.069	12.5				
M51CHLYC04	6/25/2013 12:12				0.008	1.4	0.055	12.8				
M51CHLYC04	8/6/2013 16:25				0.005	1.57	0.052	12.6				
M51CHLYC04	10/23/2013 11:30				0.008	1.42	0.058	14.3				
M51CHLYC04	4/15/2014 11:13	0.006	0.006		0.007	2.03	0.182	14.2				
M51CHLYC04	6/24/2014 10:47	0.005	0.005	0.005	0.005	1.87	0.052					16.2
M51CHLYC04	8/12/2014 10:32	0.002	0.002	0.003	0.003	1.06	0.14		19	17	19	19
M51CHLYC04	10/23/2014 10:00	0.002	0.002	0.002	0.002	1.45	0.085		15	14	14	15
M51CHLYC04	4/28/2015 11:00	0.004			0.005				13			16
M51CHLYC04	6/17/2015 11:22	0.003			0.003				14			14
M51CHLYC04	8/4/2015 10:42	0.003			0.003				15			15
M51CHLYC04	10/20/2015 10:09	ND			0.003				14			14
M51CHLYC04	6/21/2016 12:56	0.003			0.004				18			18
M51CHLYC04	8/23/2016 10:31	ND			ND				6			7
M51CHLYC04	10/4/2016 9:35	0.003			0.004				16			17
M51CHLYC05	6/13/2012 15:49				ND	1.99	0.155	15				

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30				ND	1.32	0.089	13.6				
M51CHLYC05	10/17/2012 14:23				0.25	4.07	2.66	12.6				
M51CHLYC05	4/23/2013 9:52				0.008	1.01	0.085	14.1				
M51CHLYC05	6/25/2013 10:24				0.017	1.52	0.173	12.9				
M51CHLYC05	8/6/2013 14:56				0.068	2.67	0.992	17.2				
M51CHLYC05	10/23/2013 9:50				0.009	1.75	0.11	14.9				
M51CHLYC05	4/15/2014 9:45	0.007	0.007		0.007	1.68	0.154	11.2				
M51CHLYC05	6/24/2014 9:11	0.008	0.007	0.008	0.01	1.68	0.089					14.5
M51CHLYC05	8/12/2014 8:58	0.005	0.007	0.005	0.011	1.06	0.079		9	10	9	10
M51CHLYC05	10/23/2014 9:00	0.006	0.006	0.006	0.008	1.16	0.105		15	15	15	15
M51CHLYC05	4/28/2015 9:51	0.007			0.008				15			19
M51CHLYC05	6/17/2015 9:21	0.007			0.007				12			12
M51CHLYC05	8/4/2015 9:20	0.005			0.005				14			14
M51CHLYC05	10/20/2015 8:54	0.005			0.005				8			8
M51CHLYC05	6/21/2016 10:43	0.009			0.027				12			13
M51CHLYC05	8/23/2016 9:08	0.01			0.013				16			18
M51CHLYC05	10/4/2016 8:22				0.544							43
Y23DRMFC01	6/24/2014 19:41	0.007	0.006	0.006	0.013	1.27	0.067					8.3
Y23DRMFC01	8/13/2014 9:06	ND	0.002	0.002	0.002	1.84	0.253		14	13	14	14
Y23DRMFC01	8/13/2014 9:06	0.002	0.002	0.005	0.002	0.69	0.252		14	13	14	14
Y23DRMFC01	10/24/2014 8:20	ND	ND	ND	0.002	1.97	0.059		12	12	12	12
Y23DRMFC01	4/29/2015 11:00	ND			ND				14			14
Y23DRMFC01	4/29/2015 11:00	ND			ND				14			14
Y23DRMFC01	6/19/2015 12:00	ND			ND				10			10
Y23DRMFC01	8/5/2015 12:14											
Y23DRMFC01	10/21/2015 9:58	ND			ND				13			12
Y23DRMFC01	10/21/2015 10:08	ND			ND				13			12

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47											
Y23DRMFC01	8/24/2016 12:10											
Y23DEERC01	6/25/2014 8:11	0.006	0.006	0.006	0.007	0.996	0.036					8.9
Y23DEERC01	6/25/2014 8:11	0.006	0.006	0.006	0.007	0.974	0.037					8.8
Y23DEERC01	8/13/2014 7:14	ND	0.002	ND	0.002	0.6	0.034		11	9	11	10
Y23DRSFC01	10/24/2014 9:54	0.003	0.003	0.003	0.006	0.94	0.064		8	8	8	8
Y23DRSFC01	10/24/2014 9:54	0.003	0.003	0.003	0.004	0.98	0.063		8	8	8	8
Y23DRSFC01	4/29/2015 12:15	0.003			0.003				10			10
Y23DRSFC01	6/19/2015 14:02	0.004			0.004				9			9
Y23DRSFC01	8/5/2015 13:24	0.004			0.005				11			12
Y23DRSFC01	10/21/2015 11:30											
Y23DRSFC01	6/22/2016 16:56	0.005			0.006				23			24
Y23DRSFC01	8/24/2016 12:54											
Y23DRSFC01	10/5/2016 11:00											
M51FORMC04	4/23/2013 16:30				0.004	1.38	0.104	12.9				
M51FORMC04	6/25/2013 14:13				0.009	1.64	0.11	11				
M51FORMC04	6/25/2013 14:13				0.009	1.65	0.114	11.1				
M51FORMC04	10/23/2013 13:58				0.011	1.8	0.08	15.5				
M51FORMC04	4/15/2014 15:00	0.009	0.009		0.011	2.12	0.195	15.4				
M51FORMC04	6/24/2014 13:53	0.007	0.006	0.007	0.007	1.76	0.085					11.3
M51FORMC04	8/12/2014 13:40	0.007	0.007	0.007	0.009	1.79	1.56		26	22	25	25
M51FORMC04	10/23/2014 12:30	0.004	0.004	0.004	0.005	1.76	0.158		15	15	15	15
M51FORMC04	4/28/2015 19:15	0.005			0.006				13			13
M51FORMC04	4/28/2015 19:15	0.005			0.006				12			13
M51FORMC04	6/17/2015 17:57	0.006			0.006				13			11
M51FORMC04	8/5/2015 8:38	0.01			0.011				28			29
M51FORMC04	10/20/2015 18:31	0.004			0.004				12			11

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	0.006			0.006				12			10
M51FORMC04	8/24/2016 8:09	0.009			0.011				20			20
M51FORMC04	10/4/2016 16:03	0.006			0.007				14			14
Y23FXEFC01	10/23/2014 14:10	0.006	0.006	0.006	0.007	2.4	0.175		47	46	48	48
Y23FXEFC02	4/29/2015 9:00	ND			ND				14			13
Y23FXEFC02	6/18/2015 14:02	0.002			0.002				9			8
Y23FXEFC02	8/5/2015 10:16	0.002			0.004				24			24
Y23FXEFC02	10/21/2015 7:35	0.005			0.005				39			36
Y23FXEFC02	6/22/2016 11:22	ND			0.004				6			6
Y23FXEFC02	6/22/2016 11:22	ND			0.004				6			6
Y23FXEFC02	8/24/2016 9:58	0.006			0.007				46			46
Y23FXEFC02	10/5/2016 7:55	0.004			0.005				36			38
Y23FXEFC02	10/5/2016 7:55	0.004			0.005				36			37
Y27LBVRC13	4/22/2013 16:30				0.006	0.633	0.112	5.67				
Y27LBVRC13	6/24/2013 16:56				0.009	0.925	0.138	6.28				
Y27LBVRC13	8/5/2013 17:05				0.016	1.01	0.388	6.19				
Y27LBVRC13	10/22/2013 13:40				0.006	0.831	0.07	5.62				
Y27LBVRC13	4/16/2014 16:00	0.005	0.005		0.006	0.616	0.044	5.9				
Y27LBVRC13	6/25/2014 18:35	0.004	0.004	0.004	0.006	0.974	0.105					6.3
Y27LBVRC13	8/13/2014 16:26	ND	ND	ND	0.003	0.53	0.097		6	5	6	6
Y27LBVRC13	10/24/2014 16:50	ND	ND	ND	ND	0.28	0.014		5	4	5	5
Y27LBVRC13	4/29/2015 15:40	0.002			0.003				5			5
Y27LBVRC13	8/6/2015 13:52	ND			0.003				6			6
Y27LBVRC13	10/21/2015 17:07	ND			0.002				5			6
Y27LBVRC13	6/23/2016 20:42	0.002			0.003				7			7
Y27LBVRC13	8/25/2016 12:59	0.002			0.006				7			8
Y27LBVRC13	10/6/2016 7:43	0.004			0.008				6			7

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38				0.02	1.15	0.407	5.9				
M42LBOXC05	7/10/2012 19:05				ND	0.518	0.108	6.75				
M42LBOXC05	10/16/2012 9:20				ND	0.495	0.074	7				
M42LBOXC06	4/23/2013 10:40				0.003	0.374	0.043	5.74				
M42LBOXC06	4/23/2013 10:40				0.003	0.369	0.038	5.18				
M42LBOXC06	6/17/2013 17:15				0.016	0.897	0.291	6.4				
M42LBOXC06	8/18/2013 17:45				0.005	0.455	0.074	6.19				
M42LBOXC06	10/7/2013 16:15				0.005	0.497	0.044	6.09				
M42LBOXC05	4/14/2014 15:30	0.005	0.005		0.006	0.482	0.06	6.34				
M42LBOXC05	6/23/2014 14:30	0.004	0.005		0.007	0.491	0.112					6.9
M42LBOXC06	8/11/2014 14:10	0.004	0.004	0.004	0.005	0.51	0.065		7	7	7	7
M42LBOXC05	10/22/2014 13:30	0.003	0.003	0.003	0.004	0.64	0.055		7	6	7	7
M42LBOXC05	4/27/2015 15:15	0.003			0.004				6			6
M42LBOXC05	6/16/2015 14:23	0.004			0.006				7			7
M42LBOXC05	6/16/2015 14:24	0.003			0.006				7			7
M42LBOXC05	8/3/2015 16:33	0.003			0.006				7			8
M42LBOXC05	8/3/2015 16:47	0.004			0.005				7			8
M42LBOXC05	10/19/2015 13:00	0.004			0.005				8			8
M42LBOXC05	6/20/2016 16:01	0.003			0.007				6			7
M42LBOXC05	8/22/2016 15:43	0.003			0.004				6			7
M42LBOXC05	10/3/2016 13:05	0.004			0.005				7			7
M50MEDL01	4/28/2015 17:15	0.003			0.005				24			24
M50MEDL01	6/18/2015 9:44	0.002			0.003				28			26
M50MEDL01	6/18/2015 10:01	0.002			0.003				27			26
M50MEDL01	8/4/2015 14:00	0.002			0.005				29			30
M50MEDL01	8/4/2015 14:12	0.002			0.006				30			30
M50MEDL01	10/20/2015 16:08	ND			0.004				34			31

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18	ND			0.004				32			31
M50MEDL01	6/23/2016 9:08	ND			0.004				31			32
M50MEDL01	6/23/2016 9:08	ND			0.004				31			31
M50MEDL01	8/23/2016 17:36	ND			0.004				31			31
M50MEDL01	8/23/2016 17:36	ND			0.005				31			31
M50MEDL01	10/4/2016 12:24	0.002			0.005				31			32
M50MEDL01	10/4/2016 12:24	0.002			0.004				30			32
Y22PENELC02	4/22/2013 12:40				0.08	0.854	0.068	12.1				
Y22PENELC02	6/24/2013 13:18				0.117	1.84	0.995	9.74				
Y22PENELC02	8/5/2013 15:05				0.25	0.755	0.069	25.6				
Y22PENELC02	10/22/2013 10:26				0.04	1.08	0.084	12.5				
Y22PENELC02	4/16/2014 13:30	0.019	0.019		0.02	0.778	0.048	11.8				
Y22PENELC02	6/25/2014 16:55	0.025	0.023	0.025	0.026	1.04	0.043					11.3
Y22PENELC02	8/13/2014 14:40	0.012	0.012	0.012	0.014	0.91	0.049		13	14	14	14
Y22PENELC02	10/24/2014 15:56	0.014	0.013	0.014	0.015	0.64	0.027		11	11	11	11
Y22PENELC02	4/29/2015 18:15	0.013			0.012				11			15
Y22PENELC02	6/18/2015 20:42	0.036			0.035				18			17
Y22PENELC02	8/6/2015 10:50	0.021			0.02				26			25
Y22PENELC02	10/21/2015 15:46	0.014			0.016				22			23
Y22PENELC02	6/23/2016 18:27	0.024			0.026				17			18
Y22PENELC02	8/25/2016 10:11	0.012			0.015				17			19
Y22PENELC02	10/5/2016 15:48	0.017			0.023				12			13
Y22SNSTC04	4/22/2013 14:15				0.008	1.09	0.121	7.94				
Y22SNSTC04	6/24/2013 15:00				0.02	1.28	0.415	8.62				
Y22SNSTC04	8/6/2013 8:40				0.015	1.3	0.169	10				
Y22SNSTC04	10/22/2013 11:51				0.013	2.33	0.464	9.85				
Y22SNSTC04	4/16/2014 18:00	0.01	0.01		0.012	1.14	0.111	9.25				

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20	0.013	0.012	0.013	0.015	1.32	0.129					12.4
Y22SNSTC04	8/13/2014 17:53	0.006	0.006	0.006	0.007	0.91	0.098		12	11	12	12
Y22SNSTC04	10/24/2014 18:15	0.005	0.005	0.004	0.006	1.24	0.111		15	15	15	15
Y22SNSTC04	4/29/2015 17:15	0.007			0.01				10			11
Y22SNSTC04	6/19/2015 7:51	0.008			0.011				10			11
Y22SNSTC04	8/6/2015 11:51	0.007			0.008				13			14
Y22SNSTC04	10/22/2015 7:35	0.006			0.006				10			10
Y22SNSTC04	6/24/2016 8:20	0.006			0.007				9			9
Y22SNSTC04	8/25/2016 11:23	0.006			0.008				11			11
Y22SNSTC04	10/6/2016 9:20	0.008			0.011				9			9
M52ULDSP01	4/28/2015 14:45	0.004			0.006				99			103
M52ULDSP01	8/4/2015 16:22	0.01			0.01				154			155
M52ULDSP01	10/20/2015 13:46	0.008			0.011				185			170
M52ULDSP01	8/23/2016 14:40	0.004			0.007				258			258
M52ULDSP01	8/23/2016 14:40	0.004			0.006				259			261
M39WHTWC09	7/11/2012 10:00				ND	1.76	0.449	14.8				
M39WHTWC09	10/16/2012 13:15				ND	2.37	0.319	17.4				
M39WHTWC09	4/23/2013 15:15				0.004	0.962	0.13	9.87				
M39WHTWC09	6/18/2013 11:20											
M39WHTWC09	6/18/2013 11:30				0.006	1.23	0.211	8.92				
M39WHTWC09	8/19/2013 11:30				0.005	1.62	0.196	13.5				
M39WHTWC09	10/8/2013 10:45				0.005	1.14	0.05	13.4				
M39WHTWC09	4/14/2014 19:00	0.003	0.003		0.004	0.994	0.158	11.5				
M39WHTWC09	6/23/2014 17:43	0.006	0.006		0.006	0.662	0.063					11.1
M39WHTWC09	8/11/2014 17:10	0.003	0.003	0.003	0.005	2.76	0.179		15	14	15	15
M39WHTWC09	10/22/2014 18:45	0.003	0.003	0.003	0.003	0.69	0.143		11	10	11	10
M39WHTWC09	4/27/2015 18:30	0.003			0.003				7			8

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685							
					0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	0.003			0.004				13			13
M39WHTWC09	8/3/2015 19:11	0.004			0.006				17			18
M39WHTWC09	10/19/2015 15:46	0.004			0.006				11			11
M39WHTWC09	6/20/2016 20:17	0.003			0.004				11			11
M39WHTWC09	8/22/2016 18:40	0.003			0.004				11			11
M39WHTWC09	10/3/2016 15:59	0.003			0.005				10			11
M39WHTWC10	6/12/2012 18:33				ND	2.48	0.63	13.8				
M17WILOC03	4/22/2013 18:20				ND	0.824	0.043	8.85				
M17WILOC03	6/17/2013 13:30				0.007	1.22	0.039	9.06				
M17WILOC03	6/17/2013 13:30				0.007	1.21	0.039	8.51				
M17WILOC03	8/18/2013 13:55				0.007	1.98	0.135	12				
M17WILOC03	8/18/2013 13:55				0.007	2.1	0.128	11.9				
M17WILOC03	10/7/2013 12:50				0.01	1.83	0.093	14.4				
M17WILOC03	10/7/2013 13:00				0.009	1.84	0.086	15.4				
M17WILOC02	6/12/2012 10:45				ND	1.24	0.052	8.9				
M17WILOC02	6/18/2012 11:23											
M17WILOC02	6/18/2012 11:25											
M17WILOC02	7/10/2012 15:50				ND	1.66	0.087	12.3				
M17WILOC02	10/15/2012 16:37				ND	2.93	0.281	25.6				
M17WILOC02	8/11/2014 10:45	0.003	0.004	0.004	0.004	2.05	0.194		17	20	20	19
M17WILOC04	4/14/2014 11:35	0.006	0.006		0.007	2.17	0.1	10.4				
M17WILOC04	6/23/2014 11:30	0.006	0.006		0.006	1.25	0.052					8.1
M17WILOC04	10/22/2014 10:15	0.006	0.006	0.006	0.007	1.1	0.059		24	24	24	24
M17WILOC04	4/27/2015 12:00	0.003			0.003				8			8
M17WILOC04	6/16/2015 10:28	0.003			0.003				11			11
M17WILOC04	8/3/2015 14:10	0.005			0.007				15			16
M17WILOC04	10/19/2015 10:08	0.007			0.01				18			18

Station ID	Activity Start	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~~ Dissolved	Nickel~ ~Total Recoverable	Nutrient-nitrogen~ ~Total	Phosphate-phosphorus as P~~Total	Potassium~~ Free Available	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Dissolved	Potassium~ ~Total Recoverable
					1.5159/0.1685 0.1	1.3	0.11 or 0.15					
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	0.003			0.003				13			12
M17WILOC04	8/22/2016 12:46	0.005			0.006				21			22
M17WILOC04	10/3/2016 10:29	0.005			0.005				25			25
M17WLWFC01	6/12/2012 11:45											

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23BENPC03	4/23/2013 18:00				0.002	11.5	618					
Y23BENPC03	6/25/2013 16:30				0.0018	15	779					
Y23BENPC03	8/7/2013 10:32				0.0022	17.2	751					
Y23BENPC03	8/7/2013 10:32				0.002	17	743					
Y23BENPC03	10/23/2013 15:30				0.002	14.3	711					
Y23BENPC03	4/15/2014 18:13	0.001	0.0011		0.0012	9.82	428					0.738
Y23BENPC03	6/24/2014 16:36	0.0023	0.0021	0.0022	0.0031	19.1					977	1.21
Y23BENPC03	8/12/2014 15:11	ND	ND	ND	ND	23		1150	1080	1140	1100	1.23
Y23BENPC03	10/23/2014 15:35	ND	ND	ND	ND			1010	1010	1010	1030	1.66
M50BMDYC11	7/12/2012 9:30				0.001	7.79	445					
M50BMDYC11	7/12/2012 9:45											
M50BMDYC11	10/17/2012 11:00				0.004	11.9	770					
M50BMDYC11	10/17/2012 11:15				0.004	11.6	748					
M50BMDYC11	4/23/2013 13:30				0.001	2.68	107					
M50BMDYC11	4/23/2013 13:30				ND	2.67	107					
M50BMDYC11	6/25/2013 8:16				0.0018	5.7	304					
M50BMDYC11	8/6/2013 13:03				0.0023	6.46	399					
M50BMDYC11	10/23/2013 7:50				0.0019	6.22	376					
M50BMDYC11	4/15/2014 12:34	0.002	0.0019		0.0023	6.01	277					0.51
M50BMDYC11	6/24/2014 12:11	0.002	0.0021	0.0017	0.0024	6.1					386	0.931
M50BMDYC11	8/12/2014 11:40	ND	ND	ND	ND	8.27		486	419	486	489	0.71
M50BMDYC11	10/23/2014 11:15	ND	ND	ND	ND	9.17		451	439	452	439	0.69
M50BMDYC11	4/28/2015 12:15	ND			ND	5.55		339			327	1.19
M50BMDYC11	6/17/2015 13:21	0.001			0.001	7.33		349			356	0.82
M50BMDYC11	8/4/2015 12:15	ND			ND			477			462	0.58
M50BMDYC11	10/20/2015 11:24	ND			ND	9.92		597			542	0.95
M50BMDYC11	6/21/2016 15:42	ND			0.001	6.63		460			464	1.35

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50BMDYC11	8/23/2016 12:09	ND			ND	7.82		490			498	1.06
M50BMDYC11	10/4/2016 10:45	ND			ND	8.79		533			548	0.96
M50BMDYC12	6/13/2012 18:32				ND	8.55	640.7					
Y23CABNC08	4/22/2013 11:16				0.004	4.62	154					
Y23CABNC08	6/24/2013 11:34				0.0067	4.18	193					
Y23CABNC08	8/5/2013 13:10				0.0066	4.86	237					
Y23CABNC08	10/22/2013 8:54				0.0114	11.9	716					
Y23CABNC08	4/16/2014 12:05	0.0061	0.0061		0.0062	11.3	616					1.07
Y23CABNC08	6/25/2014 15:03	0.0086	0.0092	0.009	0.0047	16.1					1260	2.01
Y23CABNC08	8/13/2014 13:22	0.004	0.004	0.004	0.002	15		868	820	849	440	1.79
Y23CABNC08	10/24/2014 14:30	0.003	0.003	0.003	0.003	15.9		1090	1070	1160	1100	2.38
Y23CABNC08	4/29/2015 19:30	ND			ND	21.8		2040			2080	3.83
Y23CABNC08	6/18/2015 18:56	0.003			0.003	16.5		846			855	1.55
Y23CABNC08	8/6/2015 9:17	ND			0.001	2320					2260	4.02
Y23CABNC08	10/21/2015 14:42	0.001			0.001	19.4		1610			1620	3.36
Y23CABNC08	6/23/2016 16:07	0.006			0.006	11.7		285			296	0.34
Y23CABNC08	8/25/2016 8:22	0.004			0.003	11.5		405			434	0.77
Y23CABNC08	10/5/2016 14:38	0.005			0.009	10.2		202			233	0.28
Y23CEDRC04	4/22/2013 9:00				0.004	5.21	210					
Y23CEDRC04	6/24/2013 9:16				0.0077	8.71	623					
Y23CEDRC04	8/5/2013 9:35				0.0074	5.63	360					
Y23CEDRC04	10/21/2013 15:00				0.0158	6.11	505					
Y23CEDRC04	10/21/2013 15:00				0.0118	8.9	381					
Y23CEDRC04	4/16/2014 8:00	0.0027			0.0032	10.7	580					1.32
Y23CEDRC04	4/16/2014 8:00	0.0028	0.0032		0.0029	10.6	572					1.32
Y23CEDRC04	6/25/2014 13:05	0.0063	0.0065	0.0065	0.0062	11.7					691	1.59
Y23CEDRC04	8/13/2014 11:14	0.003	0.003	0.003	0.003	21.4		2200	2150	2180	2160	5.7

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23CEDRC04	10/24/2014 12:15	0.006	0.005	0.005	0.005	15.7		1010	975	1010	1010	2.45
Y23CEDRC04	4/30/2015 8:45	0.005			0.005	17.5		1680			2010	4.46
Y23CEDRC04	6/19/2015 17:37	0.004			0.004	13.9		729			737	1.7
Y23CEDRC04	8/5/2015 15:48	0.006			0.007	527					522	0.96
Y23CEDRC04	10/21/2015 12:56	0.001			0.001	22.6		1830			1710	3.56
Y23CEDRC04	6/22/2016 20:21	0.007			0.007	14.4		626			594	1.29
Y23CEDRC04	8/24/2016 14:24	0.005			0.005	12.1		448			437	0.88
Y23CEDRC04	10/5/2016 12:33					5.18					296	
M51CHLYC04	6/13/2012 13:53				ND	21.8	2620					
M51CHLYC04	7/11/2012 18:00				0.002	13.4	1280					
M51CHLYC04	10/17/2012 16:10				0.007	19.3	2460					
M51CHLYC04	4/23/2013 11:30				0.002	6.24	416					
M51CHLYC04	6/25/2013 12:12				0.0018	7.49	665					
M51CHLYC04	8/6/2013 16:25				0.0041	14.2	1350					
M51CHLYC04	10/23/2013 11:30				0.0049	12.9	1260					
M51CHLYC04	4/15/2014 11:13	0.0029	0.0025		0.0025	11.7	883					1.48
M51CHLYC04	6/24/2014 10:47	0.0037	0.0044	0.0034	0.0048	16.5					1700	0.656
M51CHLYC04	8/12/2014 10:32	0.001	0.001	0.001	0.001	16.6		1920	1740	1860	1880	1.87
M51CHLYC04	10/23/2014 10:00	0.002	0.002	0.002	0.001			1630	1580	1550	1630	2.02
M51CHLYC04	4/28/2015 11:00	0.002			0.002	12.2		1140			1340	2.53
M51CHLYC04	6/17/2015 11:22	0.002			0.001	16.5		1430			1540	1.01
M51CHLYC04	8/4/2015 10:42	ND			ND			1030			1040	1.66
M51CHLYC04	10/20/2015 10:09	ND			ND	13.4		1280			1290	2.13
M51CHLYC04	6/21/2016 12:56	0.002			0.002	19.6		2050			2120	1.35
M51CHLYC04	8/23/2016 10:31	ND			ND	7.15		537			537	0.77
M51CHLYC04	10/4/2016 9:35	0.001			0.001	11.9		993			1020	1.79
M51CHLYC05	6/13/2012 15:49				ND	17.8	1251					

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51CHLYC05	7/11/2012 16:30				0.002	22.8	1640					
M51CHLYC05	10/17/2012 14:23				0.004	8.93	398					
M51CHLYC05	4/23/2013 9:52				0.006	7.89	576					
M51CHLYC05	6/25/2013 10:24				0.0036	9.23	656					
M51CHLYC05	8/6/2013 14:56				0.0043	15.4	1100					
M51CHLYC05	10/23/2013 9:50				0.006	17.5	1450					
M51CHLYC05	4/15/2014 9:45	0.004	0.0039		0.0046	11.5	717					0.933
M51CHLYC05	6/24/2014 9:11	0.0041	0.0048	0.005	0.0059	18					1410	0.836
M51CHLYC05	8/12/2014 8:58	ND	ND	ND	ND	18.7		1460	1460	1290	1400	1.74
M51CHLYC05	10/23/2014 9:00	0.002	0.002	0.002	0.002	17.8		1300	1360	1420	1340	1.16
M51CHLYC05	4/28/2015 9:51	0.002			0.002	15.7		1370			1520	2.02
M51CHLYC05	6/17/2015 9:21	0.004			0.003	19.9		1330			1560	0.69
M51CHLYC05	8/4/2015 9:20	0.001			ND			1770			1780	0.91
M51CHLYC05	10/20/2015 8:54	ND			ND	19.4		1430			1460	1.94
M51CHLYC05	6/21/2016 10:43	0.002			0.003	18.4		1110			1150	1.13
M51CHLYC05	8/23/2016 9:08	0.002			0.002	24.9		1650			1650	1.01
M51CHLYC05	10/4/2016 8:22				0.01	4.11					235	
Y23DRMFC01	6/24/2014 19:41	0.0008	0.001	0.0009	0.0015	4					337	3.23
Y23DRMFC01	8/13/2014 9:06	ND	ND	ND	ND	5.07		477	442	455	471	4.18
Y23DRMFC01	8/13/2014 9:06	ND	ND	ND	ND	4.92		475	434	478	471	4.17
Y23DRMFC01	10/24/2014 8:20	ND	ND	ND	ND	4.13		314	331	336	333	3.3
Y23DRMFC01	4/29/2015 11:00	ND			ND	3.28		268			261	2.85
Y23DRMFC01	4/29/2015 11:00	ND			ND	3.31		269			259	2.84
Y23DRMFC01	6/19/2015 12:00	ND			ND	3.59		302			301	3.3
Y23DRMFC01	8/5/2015 12:14											
Y23DRMFC01	10/21/2015 9:58	ND			ND	4.16		368			350	3.4
Y23DRMFC01	10/21/2015 10:08	ND			ND	4.19		371			340	3.38

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y23DRMFC01	6/22/2016 15:47											
Y23DRMFC01	8/24/2016 12:10											
Y23DEERC01	6/25/2014 8:11	0.0016	0.0017	0.0017	0.0017	9.3					647	1.7
Y23DEERC01	6/25/2014 8:11	0.0016	0.0019	0.0017	0.0014	9.1					638	1.7
Y23DEERC01	8/13/2014 7:14	ND	ND	ND	ND	9.48		643	600	636	609	1.76
Y23DRSFC01	10/24/2014 9:54	ND	ND	ND	ND	3.21		387	401	403	401	8.77
Y23DRSFC01	10/24/2014 9:54	ND	ND	ND	ND	3.29		396	401	409	412	8.78
Y23DRSFC01	4/29/2015 12:15	ND			ND	5.45		517			512	2.78
Y23DRSFC01	6/19/2015 14:02	0.002			0.001	7.77		891			893	4.65
Y23DRSFC01	8/5/2015 13:24	ND			ND			1130			1230	5.86
Y23DRSFC01	10/21/2015 11:30											
Y23DRSFC01	6/22/2016 16:56	0.001			0.001	11.4		1790			1870	4.45
Y23DRSFC01	8/24/2016 12:54											
Y23DRSFC01	10/5/2016 11:00											
M51FORMC04	4/23/2013 16:30				0.001	5.69	354					
M51FORMC04	6/25/2013 14:13				0.0018	7.54	574					
M51FORMC04	6/25/2013 14:13				0.0015	7.59	581					
M51FORMC04	10/23/2013 13:58				0.0025	10.3	817					
M51FORMC04	4/15/2014 15:00	0.0017	0.0019		0.0018	7.86	539					1.05
M51FORMC04	6/24/2014 13:53	0.0021	0.0025	0.0022	0.0021	10.6					751	1.01
M51FORMC04	8/12/2014 13:40	0.001	0.001	0.001	0.002	17.4		1480	1340	1470	1440	0.97
M51FORMC04	10/23/2014 12:30	0.003	0.003	0.003	0.003			1060	1040	1060	1080	1.75
M51FORMC04	4/28/2015 19:15	0.001			0.001	9.22		705			692	1.56
M51FORMC04	4/28/2015 19:15	0.001			0.001	9.22		702			696	1.55
M51FORMC04	6/17/2015 17:57	0.002			0.002	18.5		1130			1150	1.03
M51FORMC04	8/5/2015 8:38	0.004			0.002			2860			2770	1.53
M51FORMC04	10/20/2015 18:31	0.002			0.002	17.2		1220			1140	1.12

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M51FORMC04	6/22/2016 8:09	0.003			0.002	21.6		1450			1440	1.03
M51FORMC04	8/24/2016 8:09	0.002			0.002	25.3		1910			1980	1.06
M51FORMC04	10/4/2016 16:03	0.003			0.003	18.1		1190			1200	1.12
Y23FXEFC01	10/23/2014 14:10	ND	ND	ND	ND	9.33		2000	1880	1950	1940	6.61
Y23FXEFC02	4/29/2015 9:00	ND			ND	1.85		205			202	6.3
Y23FXEFC02	6/18/2015 14:02	ND			ND	2.78		256			265	1.95
Y23FXEFC02	8/5/2015 10:16	ND			ND			380			381	2.85
Y23FXEFC02	10/21/2015 7:35	ND			ND	3.51		562			521	4.2
Y23FXEFC02	6/22/2016 11:22	ND			ND	2.26		257			251	2.61
Y23FXEFC02	6/22/2016 11:22	ND			ND	2.22		253			258	2.61
Y23FXEFC02	8/24/2016 9:58	ND			ND	2.24		256			260	5.72
Y23FXEFC02	10/5/2016 7:55	0.001			0.001	2.23		228			232	3.72
Y23FXEFC02	10/5/2016 7:55	0.001			0.001	2.21		229			228	3.88
Y27LBVRC13	4/22/2013 16:30				ND	6.24	272					
Y27LBVRC13	6/24/2013 16:56				0.0011	5.38	253					
Y27LBVRC13	8/5/2013 17:05				ND	3.34	83.5					
Y27LBVRC13	10/22/2013 13:40				ND	5.92	262					
Y27LBVRC13	4/16/2014 16:00	ND	0.0009		0.001	4.74	221					0.576
Y27LBVRC13	6/25/2014 18:35	0.0013	0.001	ND	ND	6.1	269					0.54
Y27LBVRC13	8/13/2014 16:26	ND	ND	ND	ND	6.89		271	249	270	258	0.5
Y27LBVRC13	10/24/2014 16:50	ND	ND	ND	ND	6.79		279	264	272	272	0.58
Y27LBVRC13	4/29/2015 15:40	ND			ND	6.89		326			310	0.69
Y27LBVRC13	8/6/2015 13:52	ND			ND			281			278	0.46
Y27LBVRC13	10/21/2015 17:07	ND			ND	6.74		287			288	0.57
Y27LBVRC13	6/23/2016 20:42	ND			ND	8.96		334			350	0.46
Y27LBVRC13	8/25/2016 12:59	ND			ND	8.09		312			327	0.51
Y27LBVRC13	10/6/2016 7:43	ND			ND	7.51		237			239	0.36

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M42LBOXC05	6/12/2012 14:38				ND	1.19	34.1					
M42LBOXC05	7/10/2012 19:05				ND	1.46	44.3					
M42LBOXC05	10/16/2012 9:20				ND	1.9	63.4					
M42LBOXC06	4/23/2013 10:40				ND	1.69	54					
M42LBOXC06	4/23/2013 10:40				ND	1.57	47.8					
M42LBOXC06	6/17/2013 17:15				ND	1.28	40.7					
M42LBOXC06	8/18/2013 17:45				0.001	1.98	64.2					
M42LBOXC06	10/7/2013 16:15				0.0013	2.25	77.6					
M42LBOXC05	4/14/2014 15:30	0.001	ND		ND	1.55	50.3					0.349
M42LBOXC05	6/23/2014 14:30	ND	ND		ND	1.5					48.5	0.385
M42LBOXC06	8/11/2014 14:10	ND	ND	ND	ND	2.3		83	78	83	80	0.47
M42LBOXC05	10/22/2014 13:30	0.001	0.001	0.001	0.001	2.64		93	88	93	90	0.5
M42LBOXC05	4/27/2015 15:15	ND			ND	1.67		54			55	0.41
M42LBOXC05	6/16/2015 14:23	ND			ND	1.77		61			58	0.48
M42LBOXC05	6/16/2015 14:24	ND			ND	1.76		61			58	0.48
M42LBOXC05	8/3/2015 16:33	ND			ND			51			52	0.4
M42LBOXC05	8/3/2015 16:47	ND			ND			51			51	0.41
M42LBOXC05	10/19/2015 13:00	0.002			0.002	3.49		138			132	0.52
M42LBOXC05	6/20/2016 16:01	ND			ND	1.37		42			42	0.4
M42LBOXC05	8/22/2016 15:43	ND			ND	1.63		55			56	0.47
M42LBOXC05	10/3/2016 13:05	0.001			0.001	2.56		91			92	0.5
M50MEDL01	4/28/2015 17:15	ND			ND	8.35		375			385	0.48
M50MEDL01	6/18/2015 9:44	ND			ND	9.28		382			390	0.52
M50MEDL01	6/18/2015 10:01	ND			ND	9.12		381			398	0.51
M50MEDL01	8/4/2015 14:00	ND			ND			436			441	0.5
M50MEDL01	8/4/2015 14:12	ND			ND			442			445	0.5
M50MEDL01	10/20/2015 16:08	ND			ND	10.8		514			449	0.43

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M50MEDL01	10/20/2015 16:18	ND			ND	10.4		500			481	0.43
M50MEDL01	6/23/2016 9:08	ND			ND	10.6		518			521	0.53
M50MEDL01	6/23/2016 9:08	ND			0.001	10.5		515			509	0.53
M50MEDL01	8/23/2016 17:36	ND			ND	10.9		546			537	0.25
M50MEDL01	8/23/2016 17:36	ND			ND	10.9		544			538	0.25
M50MEDL01	10/4/2016 12:24	ND			ND	11.2		548			557	0.35
M50MEDL01	10/4/2016 12:24	ND			ND	11		536			550	0.35
Y22PENELC02	4/22/2013 12:40				0.008	13.1	1050					
Y22PENELC02	6/24/2013 13:18				0.0044	5.4	207					
Y22PENELC02	8/5/2013 15:05				0.0102	21.4	2490					
Y22PENELC02	10/22/2013 10:26				0.0051	12.1	714					
Y22PENELC02	4/16/2014 13:30	0.0018	0.0021		0.0021	10.3	681					1.28
Y22PENELC02	6/25/2014 16:55	0.0033	0.0042	0.0037	0.0034	15.6					1160	1.41
Y22PENELC02	8/13/2014 14:40	ND	ND	ND	ND	21.7		1810	1870	1940	1930	2.67
Y22PENELC02	10/24/2014 15:56	ND	ND	ND	ND			1300	1270	1310	1290	2.66
Y22PENELC02	4/29/2015 18:15	ND			ND	13.6		1160			1390	2.37
Y22PENELC02	6/18/2015 20:42	0.002			0.002	18.1		1610			1670	2.56
Y22PENELC02	8/6/2015 10:50	0.002			0.003			4330			4170	2.85
Y22PENELC02	10/21/2015 15:46	0.002			0.002	27.7		3030			3010	3.04
Y22PENELC02	6/23/2016 18:27	0.002			0.002	20.8		1780			1940	2.05
Y22PENELC02	8/25/2016 10:11	0.001			0.001	19.6		1830			2070	2.7
Y22PENELC02	10/5/2016 15:48	0.002			0.002	8.5		320			324	0.56
Y22SNSTC04	4/22/2013 14:15				0.004	9.91	518					
Y22SNSTC04	6/24/2013 15:00				0.0014	4.53	171					
Y22SNSTC04	8/6/2013 8:40				0.002	7.38	317					
Y22SNSTC04	10/22/2013 11:51				0.0025	11.5	630					
Y22SNSTC04	4/16/2014 18:00	0.0015	0.0016		0.0019	7.04		388				0.888

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Y22SNSTC04	6/25/2014 20:20	0.0038	0.0039	0.0036	0.0045	13.1					1020	1.83
Y22SNSTC04	8/13/2014 17:53	0.002	0.002	0.001	0.002	13		917	851	896	892	1.74
Y22SNSTC04	10/24/2014 18:15	ND	ND	ND	ND			702	661	698	683	2.18
Y22SNSTC04	4/29/2015 17:15	0.001			0.001	11.5		817			806	1.9
Y22SNSTC04	6/19/2015 7:51	0.002			0.002	14.4		1010			1070	2.09
Y22SNSTC04	8/6/2015 11:51	0.002			0.002			802			801	1.58
Y22SNSTC04	10/22/2015 7:35	0.002			0.002	13.4		853			809	1.4
Y22SNSTC04	6/24/2016 8:20	0.002			0.002	13.5		734			719	1.27
Y22SNSTC04	8/25/2016 11:23	ND			ND	11.5		666			675	1.37
Y22SNSTC04	10/6/2016 9:20	0.002			0.002	8.46		371			370	0.8
M52ULDSP01	4/28/2015 14:45	ND			0.001	23.8		3550			3550	5.5
M52ULDSP01	8/4/2015 16:22	0.003			0.003			5500			5530	7.82
M52ULDSP01	10/20/2015 13:46	0.001			0.002	32.4		6460			5890	9.04
M52ULDSP01	8/23/2016 14:40	0.001			0.002	37.8		9260			9360	12.8
M52ULDSP01	8/23/2016 14:40	0.001			0.002	37.9		9250			9630	12.8
M39WHTWC09	7/11/2012 10:00				0.004	15.9	677					
M39WHTWC09	10/16/2012 13:15				0.013	17.5	860					
M39WHTWC09	4/23/2013 15:15				ND	4.36	130					
M39WHTWC09	6/18/2013 11:20											
M39WHTWC09	6/18/2013 11:30				0.0012	4.26	142					
M39WHTWC09	8/19/2013 11:30				0.0107	14.2	657					
M39WHTWC09	10/8/2013 10:45				0.0075	14.9	757					
M39WHTWC09	4/14/2014 19:00	0.0014	0.0012		0.0016	4.74	143					0.233
M39WHTWC09	6/23/2014 17:43	0.0054	0.0052		0.0048	10					476	0.606
M39WHTWC09	8/11/2014 17:10	ND	ND	ND	ND	15.6		616	557	611	605	0.23
M39WHTWC09	10/22/2014 18:45	ND	ND	ND	ND			416	398	436	417	0.7
M39WHTWC09	4/27/2015 18:30	ND			ND	8.26		348			346	0.54

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M39WHTWC09	6/16/2015 18:25	ND			0.001	11.1		583			569	0.76
M39WHTWC09	8/3/2015 19:11	ND			ND			620			624	0.75
M39WHTWC09	10/19/2015 15:46	ND			ND	14.8		706			705	0.62
M39WHTWC09	6/20/2016 20:17	ND			ND	10.6		488			479	0.64
M39WHTWC09	8/22/2016 18:40	ND			ND	8.6		408			419	0.71
M39WHTWC09	10/3/2016 15:59	ND			ND	9.01		398			406	0.61
M39WHTWC10	6/12/2012 18:33				ND	15.3	641					
M17WILOC03	4/22/2013 18:20				0.011	3.68	251				1.7	
M17WILOC03	6/17/2013 13:30				0.0061	4.47	355				1.77	
M17WILOC03	6/17/2013 13:30				0.0063	4.43	355				1.74	
M17WILOC03	8/18/2013 13:55				0.0035	6.83	630				1.68	
M17WILOC03	8/18/2013 13:55				0.0038	6.76	626				1.7	
M17WILOC03	10/7/2013 12:50				0.0032	7.74	785				2.46	
M17WILOC03	10/7/2013 13:00				0.0031	8.72	842				2.47	
M17WILOC02	6/12/2012 10:45				0.001	5.02	402				2.1	
M17WILOC02	6/18/2012 11:23											
M17WILOC02	6/18/2012 11:25											
M17WILOC02	7/10/2012 15:50				0.006	5.25	504					
M17WILOC02	10/15/2012 16:37				0.006	8.07	915					
M17WILOC02	8/11/2014 10:45	0.004	0.004	0.004	0.005	7.63		698	766	761	737	0.85
M17WILOC04	4/14/2014 11:35	0.0113	0.0121		0.0104	3.13	211					0.964
M17WILOC04	6/23/2014 11:30	0.0028	0.0024		0.003	5.3					381	1.68
M17WILOC04	10/22/2014 10:15	ND	ND	ND	ND	7.6		833	827	862	825	3.38
M17WILOC04	4/27/2015 12:00	0.006			0.006	4.81		383			391	2.2
M17WILOC04	6/16/2015 10:28	0.002			0.002	7.95		723			701	1.84
M17WILOC04	8/3/2015 14:10	0.003			0.003	932					950	1.16
M17WILOC04	10/19/2015 10:08	0.002			0.002	11.1		1220			1220	1.27

Station ID	Activity Start	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Dissolved	Selenium~ ~Total Recoverable	Sodium adsorption ratio	Sodium~ ~Free Available	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Dissolved	Sodium~ ~Total Recoverable	Strontium~ ~Dissolved
					0.02/0.005 0.05							
		mg/l	mg/l	mg/l	mg/l	None	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
M17WILOC04	6/20/2016 12:45	0.002			0.002	8.05		687			682	1.98
M17WILOC04	8/22/2016 12:46	0.002			0.002	10.7		1130			1160	1.21
M17WILOC04	10/3/2016 10:29	0.002			0.003	11.9		1350			1370	1.22
M17WLWFC01	6/12/2012 11:45											

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
Y23BENPC03	4/23/2013 18:00			1.18	1320	2570	42				0.013	65.6
Y23BENPC03	6/25/2013 16:30			1.36	1480	2900	38				0.026	61.1
Y23BENPC03	8/7/2013 10:32			0.81	1220	2490	106				0.032	58.4
Y23BENPC03	8/7/2013 10:32			0.81	1220	2520	94.5				0.033	57.8
Y23BENPC03	10/23/2013 15:30			0.974	1230	2480	93				0.04	83.5
Y23BENPC03	4/15/2014 18:13	0.744		0.773	761	1640	95	0.006	0.006		0.019	51.4
Y23BENPC03	6/24/2014 16:36	1.21	1.21	1.27	1580	3210	37	0.005	ND	0.005	0.01	
Y23BENPC03	8/12/2014 15:11	1.17	1.22	1.2	1700	3570	40	ND	ND	ND	ND	
Y23BENPC03	10/23/2014 15:35	1.6	1.68	1.64	1700	3470	21	ND	ND	ND	0.018	
M50BMDYC11	7/12/2012 9:30			0.81	974	19100	65				0.012	72.3
M50BMDYC11	7/12/2012 9:45											
M50BMDYC11	10/17/2012 11:00			0.78	1710	3260	78.5				0.014	72.4
M50BMDYC11	10/17/2012 11:15			0.8	1700	3270	70.5				0.015	
M50BMDYC11	4/23/2013 13:30			0.44	333	712	55.5				0.011	
M50BMDYC11	4/23/2013 13:30			0.44	343	700	52				0.01	
M50BMDYC11	6/25/2013 8:16			0.702	663	1480	104				0.027	63
M50BMDYC11	8/6/2013 13:03			0.9	998	1960	53				0.026	66.6
M50BMDYC11	10/23/2013 7:50			1.01	796	1740	29				0.033	84.7
M50BMDYC11	4/15/2014 12:34	0.513		0.537	541	1210	58.5	0.006	0.006		0.008	59.9
M50BMDYC11	6/24/2014 12:11	0.927	0.932	0.983	904	1930	86.5	0.006	ND	0.006	0.012	
M50BMDYC11	8/12/2014 11:40	0.64	0.72	0.74	840	1900	104	ND	ND	ND	0.014	
M50BMDYC11	10/23/2014 11:15	0.66	0.69	0.69	790	1860	41	ND	ND	ND	0.009	
M50BMDYC11	4/28/2015 12:15			1.15	845	1810	119	ND			0.011	
M50BMDYC11	6/17/2015 13:21			0.79	741	1600	150	ND			0.017	61.6
M50BMDYC11	8/4/2015 12:15			0.57		1870	122	ND			0.012	
M50BMDYC11	10/20/2015 11:24			0.98	1110	2420	88	ND			ND	
M50BMDYC11	6/21/2016 15:42			1.53	1370	2330	119	ND			0.01	72.8

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M50BMDYC11	8/23/2016 12:09			1.04	1240	2360	174	ND			0.014	
M50BMDYC11	10/4/2016 10:45			0.99	1200	2510	114	ND			0.01	
M50BMDYC12	6/13/2012 18:32			0.98	1710	2980	91				0.017	66.2
Y23CABNC08	4/22/2013 11:16			0.72	240	3200	1640				0.486	77.8
Y23CABNC08	6/24/2013 11:34			1.31	329	1420	10000				1.05	81
Y23CABNC08	8/5/2013 13:10			1.06	498	4500	1720				0.66	66.9
Y23CABNC08	10/22/2013 8:54			1.25	1450	3300	662				0.159	75.6
Y23CABNC08	4/16/2014 12:05	1.13		1.19	1190	2540	30	0.009	0.01		0.01	75.3
Y23CABNC08	6/25/2014 15:03	1.99	2	2.26	2560	4970	25	0.006	0.005	0.006	0.011	
Y23CABNC08	8/13/2014 13:22	1.67	1.76	0.89	1400	3260	32	ND	ND	ND	ND	
Y23CABNC08	10/24/2014 14:30	2.3	2.5	2.37	2100	4410	23	ND	ND	ND	ND	
Y23CABNC08	4/29/2015 19:30			4.25	3960	8290	18	ND			ND	
Y23CABNC08	6/18/2015 18:56			1.55	1660	3370	69	ND			0.009	77.4
Y23CABNC08	8/6/2015 9:17			4		8650	20	ND			ND	
Y23CABNC08	10/21/2015 14:42			3.3	2670	6200	34	ND			ND	
Y23CABNC08	6/23/2016 16:07			0.56	432	1330	3100	ND			0.28	74.6
Y23CABNC08	8/25/2016 8:22			0.74	767	1640	39	ND			ND	
Y23CABNC08	10/5/2016 14:38			1.22	343	1900	6950	ND			0.818	
Y23CEDRC04	4/22/2013 9:00			1.12	457	4980	2520				0.714	90.6
Y23CEDRC04	6/24/2013 9:16			2.73	1840	2500	12200				1.38	95.5
Y23CEDRC04	8/5/2013 9:35			2.53	694	2120	16100				1.67	83.4
Y23CEDRC04	10/21/2013 15:00			3.4	671	3320	26900				2.33	116
Y23CEDRC04	10/21/2013 15:00			1.09	619	5080	618				0.522	109
Y23CEDRC04	4/16/2014 8:00			1.36	1540	2410	14	0.014			0.008	87.2
Y23CEDRC04	4/16/2014 8:00	1.3		1.35	1470	2410	11	0.009	0.008		0.007	89.1
Y23CEDRC04	6/25/2014 13:05	1.57	1.52	1.66	1770	2900	21.5	ND	ND	ND	ND	
Y23CEDRC04	8/13/2014 11:14	5.37	5.72	5.54	5800	9420	100	ND	ND	ND	0.019	

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
Y23CEDRC04	10/24/2014 12:15	2.37	2.48	2.47	2600	4130	16	ND	ND	ND	ND	
Y23CEDRC04	4/30/2015 8:45			5.05	4570	7630	18	ND			ND	
Y23CEDRC04	6/19/2015 17:37			1.7	1890	2970	1190	ND			0.107	92.5
Y23CEDRC04	8/5/2015 15:48			0.99		1930	120	ND			0.018	
Y23CEDRC04	10/21/2015 12:56			3.68	4290	6970	47	ND			ND	
Y23CEDRC04	6/22/2016 20:21			1.39	1490	2530	45	ND			ND	80
Y23CEDRC04	8/24/2016 14:24			0.91	1030	1840	160	ND			0.018	
Y23CEDRC04	10/5/2016 12:33			1.93	488	2000	11100				1.22	
M51CHLYC04	6/13/2012 13:53			0.72	7230	11400	7.5				0.015	60.1
M51CHLYC04	7/11/2012 18:00			0.46	3780	5820	9.5				0.012	54.6
M51CHLYC04	10/17/2012 16:10			1.69	7810	12200	49				0.032	46
M51CHLYC04	4/23/2013 11:30			1.33	1430	2350	9				0.01	46.5
M51CHLYC04	6/25/2013 12:12			2.13	2570	4150	7				0.027	52.4
M51CHLYC04	8/6/2013 16:25			0.65	3920	6190	2				0.037	51.9
M51CHLYC04	10/23/2013 11:30			2.22	3380	5950	5				0.051	81.4
M51CHLYC04	4/15/2014 11:13	1.47		1.52	2360	3900	34.5	0.012	0.012	0.011		50.6
M51CHLYC04	6/24/2014 10:47	0.651	0.646	0.674	5250	7670	4	0.013	0.012	0.012	0.015	
M51CHLYC04	8/12/2014 10:32	1.72	1.86	1.83	4800	9580	112	ND	ND	ND	ND	
M51CHLYC04	10/23/2014 10:00	1.93	1.93	2.01	4100	7450	7	ND	ND	ND	ND	
M51CHLYC04	4/28/2015 11:00			2.92	3310	5510	29	ND			ND	
M51CHLYC04	6/17/2015 11:22			1.06	4420	6750	5	ND			ND	45
M51CHLYC04	8/4/2015 10:42			1.62		4870	15	ND			ND	
M51CHLYC04	10/20/2015 10:09			2.16	3650	6030	24	ND			ND	
M51CHLYC04	6/21/2016 12:56			1.48	6070	9560	25	ND			ND	51.1
M51CHLYC04	8/23/2016 10:31			0.77	1630	2840	14	ND			ND	
M51CHLYC04	10/4/2016 9:35			1.82	2910	4920	22	ND			ND	
M51CHLYC05	6/13/2012 15:49			0.8	3000	4690	51				0.014	84.5

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M51CHLYC05	7/11/2012 16:30			1.58	3390	5710	40				0.012	76.5
M51CHLYC05	10/17/2012 14:23			1.68	780	5000	1600				0.56	86
M51CHLYC05	4/23/2013 9:52			1.74	1870	3080	59				0.023	72.8
M51CHLYC05	6/25/2013 10:24			1.48	1950	3240	137				0.05	74.8
M51CHLYC05	8/6/2013 14:56			1.04	2570	4060	1640				0.233	79.9
M51CHLYC05	10/23/2013 9:50			0.894	3250	5650	55.5				0.048	89.8
M51CHLYC05	4/15/2014 9:45	0.937		0.958	1650	2870	23.5	0.009	0.01		0.009	65.2
M51CHLYC05	6/24/2014 9:11	0.831	0.842	0.876	3260	5390	50	0.008	0.007	0.008	0.015	
M51CHLYC05	8/12/2014 8:58	1.85	1.9	2.01	3100	4990	1280	ND	0.011	ND	0.022	
M51CHLYC05	10/23/2014 9:00	1.14	1.19	1.16	3200	5600	58	ND	ND	ND	0.01	
M51CHLYC05	4/28/2015 9:51			2.21	3470	6070	43	ND			ND	
M51CHLYC05	6/17/2015 9:21			0.76	3820	5730	15	ND			ND	77.2
M51CHLYC05	8/4/2015 9:20			0.89		6600	26	ND			ND	
M51CHLYC05	10/20/2015 8:54			2.17	3220	5530	13	ND			ND	
M51CHLYC05	6/21/2016 10:43			1.24	2740	4470	476	ND			0.044	70.6
M51CHLYC05	8/23/2016 9:08			1.15	3720	4950	172	ND			ND	
M51CHLYC05	10/4/2016 8:22			2.12	173	2000	10700				1.24	
Y23DRMFC01	6/24/2014 19:41	3.24	3.25	3.43	1370	2600	3	0.005	0.004	0.006	0.005	
Y23DRMFC01	8/13/2014 9:06	3.84	4.04	4.13	1700	3060	ND	ND	ND	ND	ND	
Y23DRMFC01	8/13/2014 9:06	3.79	4.14	4.13	1700	3150	15	ND	ND	ND	ND	
Y23DRMFC01	10/24/2014 8:20	3.44	3.4	3.44	1300	2480	25	ND	ND	ND	ND	49.4
Y23DRMFC01	4/29/2015 11:00			2.7	1300	2360	4	ND			ND	
Y23DRMFC01	4/29/2015 11:00			2.95	1300	2370	5	ND			ND	
Y23DRMFC01	6/19/2015 12:00			3.22	1310	2560	ND	ND			ND	51.6
Y23DRMFC01	8/5/2015 12:14											
Y23DRMFC01	10/21/2015 9:58			3.38	1480	2720	13	ND			ND	
Y23DRMFC01	10/21/2015 10:08			3.42	1450	2720	14	ND			ND	

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
Y23DRMFC01	6/22/2016 15:47											
Y23DRMFC01	8/24/2016 12:10											
Y23DEERC01	6/25/2014 8:11	1.7	1.69	1.76	1680	2920	17.5	0.004	0.005	0.006	0.008	
Y23DEERC01	6/25/2014 8:11	1.69	1.69	1.78	1740	2920	15.5	0.006	0.004	0.006	0.008	
Y23DEERC01	8/13/2014 7:14	1.63	1.76	1.73	1500	2740	21	ND	ND	ND	ND	
Y23DRSFC01	10/24/2014 9:54	9.26	9.17	9.06	3200	5360	12	ND	ND	0.009	ND	45
Y23DRSFC01	10/24/2014 9:54	9.23	9.31	9.06	3100	4930	16	ND	ND	ND	ND	46.1
Y23DRSFC01	4/29/2015 12:15			2.75	2400	4160	5	ND			ND	
Y23DRSFC01	6/19/2015 14:02			4.62	3560	5960	10	ND			ND	41.5
Y23DRSFC01	8/5/2015 13:24			5.95		8430	15	ND			ND	
Y23DRSFC01	10/21/2015 11:30											
Y23DRSFC01	6/22/2016 16:56			4.95	8670	12700	38	ND			ND	51.4
Y23DRSFC01	8/24/2016 12:54											
Y23DRSFC01	10/5/2016 11:00											
M51FORMC04	4/23/2013 16:30			0.86	1180	2130	8.5				0.01	51
M51FORMC04	6/25/2013 14:13			1.27	1810	3380	6.5				0.028	44.9
M51FORMC04	6/25/2013 14:13			1.28	1830	3200	5.5				0.028	47.3
M51FORMC04	10/23/2013 13:58			1.52	2050	3720	7.5				0.041	81.8
M51FORMC04	4/15/2014 15:00	1.05		1.13	1450	2550	46.5	0.01	0.01		0.011	44.6
M51FORMC04	6/24/2014 13:53	1.01	1.03	1.04	1940	3220	2.5	0.006	0.006	0.006	0.007	
M51FORMC04	8/12/2014 13:40	0.83	0.74	1.87	3400	5750	380	ND	ND	ND	0.011	
M51FORMC04	10/23/2014 12:30	1.67	1.73	1.73	2900	4500	24	ND	ND	ND	ND	
M51FORMC04	4/28/2015 19:15			1.47	2030	3580	47	ND			ND	
M51FORMC04	4/28/2015 19:15			1.51	2030	3610	44	ND			ND	
M51FORMC04	6/17/2015 17:57			1.03	2890	4520	23	ND			ND	55.7
M51FORMC04	8/5/2015 8:38			1.09		9740	158	0.008			0.041	
M51FORMC04	10/20/2015 18:31			1.13	2600	4550	10	ND			ND	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M51FORMC04	6/22/2016 8:09			1.08	3770	5730	14	ND			ND	64.2
M51FORMC04	8/24/2016 8:09			1.01	4820	7620	41	ND			ND	
M51FORMC04	10/4/2016 16:03			1.12	2660	4910	56	ND			0.008	
Y23FXEFC01	10/23/2014 14:10	6.35	6.65	6.55	11000	18600	29	ND	ND	ND	0.014	54.7
Y23FXEFC02	4/29/2015 9:00			6.53	2240	4070	ND	ND			ND	
Y23FXEFC02	6/18/2015 14:02			2.02	2640	3920	7	ND			ND	40.5
Y23FXEFC02	8/5/2015 10:16			2.8		5270	25	ND			ND	
Y23FXEFC02	10/21/2015 7:35			4.15	4560	7280	50	ND			ND	
Y23FXEFC02	6/22/2016 11:22			2.97	2740	3770	19	ND			0.024	69.3
Y23FXEFC02	6/22/2016 11:22			3.03	2740	3960	17	ND			0.014	66.9
Y23FXEFC02	8/24/2016 9:58			5.8	2310	3990	51	ND			ND	
Y23FXEFC02	10/5/2016 7:55			3.7	1920	3420	14	ND			ND	
Y23FXEFC02	10/5/2016 7:55			3.66	1900	3420	15	ND			ND	
Y27LBVRC13	4/22/2013 16:30			0.56	563	1260	50.5				0.016	73.3
Y27LBVRC13	6/24/2013 16:56			0.644	602	1260	168				0.03	77
Y27LBVRC13	8/5/2013 17:05			0.2	130	578	282				0.054	75.9
Y27LBVRC13	10/22/2013 13:40			0.504	462	1130	35				0.026	90.4
Y27LBVRC13	4/16/2014 16:00	0.573		0.583	487	1060	12	ND	0.006		0.013	70.9
Y27LBVRC13	6/25/2014 18:35	0.536	0.541	0.58	442	1120	78	ND	ND	ND	0.008	
Y27LBVRC13	8/13/2014 16:26	0.46	0.5	0.49	450	1050	56	ND	ND	ND	0.011	
Y27LBVRC13	10/24/2014 16:50	0.54	0.57	0.56	460	1140	4	ND	ND	ND	ND	
Y27LBVRC13	4/29/2015 15:40			0.66	618	1440	46	ND			ND	
Y27LBVRC13	8/6/2015 13:52			0.48		1070	55	ND			ND	45
Y27LBVRC13	10/21/2015 17:07			0.59	480	1150	34	ND			ND	
Y27LBVRC13	6/23/2016 20:42			0.47	549	1280	54	ND			ND	74.8
Y27LBVRC13	8/25/2016 12:59			0.51	536	1290	52	ND			0.013	
Y27LBVRC13	10/6/2016 7:43			0.37	383	1020	62	ND			0.015	

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M42LBOXC05	6/12/2012 14:38			0.35	60.6	373	245				0.037	70
M42LBOXC05	7/10/2012 19:05			0.4	41.9	304	72.5				0.01	61.9
M42LBOXC05	10/16/2012 9:20			0.46	76.8	532	16.5				0.006	67.8
M42LBOXC06	4/23/2013 10:40			0.38	104	383	16.5				0.005	54.3
M42LBOXC06	4/23/2013 10:40			0.38	104	380	12.5				0.006	60.5
M42LBOXC06	6/17/2013 17:15			0.37	54	310	300				0.031	50.2
M42LBOXC06	8/18/2013 17:45			0.395	57.8	391	13				0.012	54
M42LBOXC06	10/7/2013 16:15			0.421	95.7	436	10.5				0.014	61.6
M42LBOXC05	4/14/2014 15:30	0.342		0.359	96.1	362	39	ND	0.01		ND	52.2
M42LBOXC05	6/23/2014 14:30	0.384		0.415	63.4	344	69.5	ND	ND		0.006	
M42LBOXC06	8/11/2014 14:10	0.44	0.48	0.46	80	463	30	ND	ND	ND	ND	
M42LBOXC05	10/22/2014 13:30	0.48	0.51	0.5	140	522	14	ND	ND	ND	ND	
M42LBOXC05	4/27/2015 15:15			0.42	75	347	23	ND			ND	
M42LBOXC05	6/16/2015 14:23			0.46	58.8	401	56	ND			0.009	67.8
M42LBOXC05	6/16/2015 14:24			0.45	59.1	399	56	ND			ND	67.7
M42LBOXC05	8/3/2015 16:33			0.4		351	42	ND			ND	
M42LBOXC05	8/3/2015 16:47			0.4		349	43	ND			ND	
M42LBOXC05	10/19/2015 13:00			0.55	232	722	13	ND			ND	
M42LBOXC05	6/20/2016 16:01			0.44	49	308	107	ND			0.01	64.6
M42LBOXC05	8/22/2016 15:43			0.45	57.1	398	23	ND			ND	
M42LBOXC05	10/3/2016 13:05			0.5	139	558	21	ND			ND	
M50MEDL01	4/28/2015 17:15			0.52	645	1580	111	ND			0.012	
M50MEDL01	6/18/2015 9:44			0.47	701	1590	7	ND			ND	66.9
M50MEDL01	6/18/2015 10:01			0.46	695	1570	4	ND			ND	68.4
M50MEDL01	8/4/2015 14:00			0.54		1730	107	ND			0.011	
M50MEDL01	8/4/2015 14:12			0.56		1710	164	ND			0.016	
M50MEDL01	10/20/2015 16:08			0.52	758	1940	64	ND			ND	

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M50MEDL01	10/20/2015 16:18			0.48	752	1890	66	ND			0.009	
M50MEDL01	6/23/2016 9:08			0.57	930	1970	16	ND			0.022	69.7
M50MEDL01	6/23/2016 9:08			0.56	915	1980	15	ND			0.009	78.3
M50MEDL01	8/23/2016 17:36			0.29	996	2170	92	ND			ND	
M50MEDL01	8/23/2016 17:36			0.29	988	2210	80	ND			0.008	
M50MEDL01	10/4/2016 12:24			0.39	850	2220	59	ND			ND	
M50MEDL01	10/4/2016 12:24			0.39	856	2190	81	ND			ND	
Y22PENELC02	4/22/2013 12:40			1.67	3440	5290	18.5				0.028	90.3
Y22PENELC02	6/24/2013 13:18			0.634	450	1860	1740				0.315	82.7
Y22PENELC02	8/5/2013 15:05			3.14	6830	11000	30				0.093	85.9
Y22PENELC02	10/22/2013 10:26			0.93	1670	2800	50				0.045	118
Y22PENELC02	4/16/2014 13:30	1.29		1.31	1810	3010	17	0.01	0.012		0.009	79.3
Y22PENELC02	6/25/2014 16:55	1.41	1.42	1.5	2800	4440	10	0.006	0.005	0.007	0.012	
Y22PENELC02	8/13/2014 14:40	2.56	2.71	2.67	4500	7870	23	ND	ND	ND	0.011	
Y22PENELC02	10/24/2014 15:56	2.51	2.66	2.62	3000	5840	20	ND	ND	ND	0.008	
Y22PENELC02	4/29/2015 18:15			2.71	3240	5570	7	ND			0.009	
Y22PENELC02	6/18/2015 20:42			2.66	4610	7130	19	ND			0.008	87.1
Y22PENELC02	8/6/2015 10:50			2.73		14900	256	ND			ND	
Y22PENELC02	10/21/2015 15:46			2.73	7320	11400	32	ND			ND	
Y22PENELC02	6/23/2016 18:27			2.09	3780	7730	27	ND			ND	76.6
Y22PENELC02	8/25/2016 10:11			2.64	5240	8480	51	ND			ND	
Y22PENELC02	10/5/2016 15:48			0.59	694	1480	47	ND			0.019	
Y22SNSTC04	4/22/2013 14:15			0.91	1370	2230	37				0.011	63
Y22SNSTC04	6/24/2013 15:00			0.453	490	975	386				0.053	54.8
Y22SNSTC04	8/6/2013 8:40			0.7	715	1330	162				0.03	58.3
Y22SNSTC04	10/22/2013 11:51			0.838	1420	2440	64.5				0.034	77.5
Y22SNSTC04	4/16/2014 18:00	0.892		0.912	1090	1880	43	0.008	0.009	0.008		58.7

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
Y22SNSTC04	6/25/2014 20:20	1.83	1.83	1.93	2640	4410	46.5	0.008	ND	0.007	0.009	
Y22SNSTC04	8/13/2014 17:53	1.63	1.72	1.7	2100	3610	63	ND	ND	ND	ND	
Y22SNSTC04	10/24/2014 18:15	2.09	2.19	2.16	2200	3860	31	ND	ND	ND	ND	
Y22SNSTC04	4/29/2015 17:15			1.9	2260	3940	77	ND	ND			
Y22SNSTC04	6/19/2015 7:51			2.13	2520	4340	71	ND			0.009	62.8
Y22SNSTC04	8/6/2015 11:51			1.6		3350	33	ND			ND	
Y22SNSTC04	10/22/2015 7:35			1.57	1960	3570	27	ND			ND	690.5
Y22SNSTC04	6/24/2016 8:20			1.26	1530	3890	51	ND			ND	58.6
Y22SNSTC04	8/25/2016 11:23			1.43	1730	2930	45	ND			ND	
Y22SNSTC04	10/6/2016 9:20			0.83	973	1700	36	ND			ND	
M52ULDSP01	4/28/2015 14:45			5.6	4440	15000	143	ND				ND
M52ULDSP01	8/4/2015 16:22			7.41		22600	126	ND			0.009	34
M52ULDSP01	10/20/2015 13:46			9.25	6840	26100	164	ND				ND
M52ULDSP01	8/23/2016 14:40			13.2	12100	41500	412	ND				ND
M52ULDSP01	8/23/2016 14:40			13.5	12100	42200	208	ND			ND	ND
M39WHTWC09	7/11/2012 10:00			0.43	894	2210	4.5				0.006	57.6
M39WHTWC09	10/16/2012 13:15			0.55	1180	3070	30				0.012	69.7
M39WHTWC09	4/23/2013 15:15			0.26	238	617	24				0.008	56.8
M39WHTWC09	6/18/2013 11:20											
M39WHTWC09	6/18/2013 11:30			0.359	240	660	28.5				0.012	57
M39WHTWC09	8/19/2013 11:30			0.497	914	2230	6.5				0.032	71
M39WHTWC09	10/8/2013 10:45			0.647	1020	2510	13				0.033	69.2
M39WHTWC09	4/14/2014 19:00	0.234		0.239	201	602	9	ND	ND		ND	61.7
M39WHTWC09	6/23/2014 17:43	0.606		0.637	711	1780	7	ND	0.004		ND	
M39WHTWC09	8/11/2014 17:10	0.22	0.23	0.24	670	1950	42	ND	ND	ND	0.009	
M39WHTWC09	10/22/2014 18:45	0.68	0.72	0.7	560	1690	7	ND	ND	ND	ND	
M39WHTWC09	4/27/2015 18:30			0.55	493	1310	ND	ND			ND	

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M39WHTWC09	6/16/2015 18:25			0.79	1040	2200	34	ND			ND	61.5
M39WHTWC09	8/3/2015 19:11			0.74	2400		70	ND			ND	
M39WHTWC09	10/19/2015 15:46			0.6	772	2410	83	ND			ND	
M39WHTWC09	6/20/2016 20:17			0.71	765	1780	34	ND			ND	51.2
M39WHTWC09	8/22/2016 18:40			0.69	624	1750	21	ND			ND	
M39WHTWC09	10/3/2016 15:59			0.63	630	1690	48	ND			ND	
M39WHTWC10	6/12/2012 18:33			0.43	886	2080	42				0.011	71
M17WILOC03	4/22/2013 18:20				1070	2000	10.5				0.011	68.1
M17WILOC03	6/17/2013 13:30				1490	2670	2				0.026	68.8
M17WILOC03	6/17/2013 13:30				1510	2630	2.5				0.026	71.1
M17WILOC03	8/18/2013 13:55				3020	4100	16.5				0.047	87.3
M17WILOC03	8/18/2013 13:55				2330	4120	14				0.05	87
M17WILOC03	10/7/2013 12:50				2950	5020	15.5				0.054	51.2
M17WILOC03	10/7/2013 13:00				2920	5000	11.5				0.051	61.2
M17WILOC02	6/12/2012 10:45				1580	2730	4.5				0.011	80.3
M17WILOC02	6/18/2012 11:23											
M17WILOC02	6/18/2012 11:25											
M17WILOC02	7/10/2012 15:50			1.99	2330	3760	22.5				0.012	76.9
M17WILOC02	10/15/2012 16:37			1.07	3910	6520	28				0.02	82.2
M17WILOC02	8/11/2014 10:45	0.92	0.93	0.9	2700	4210	24	ND	ND	ND	ND	
M17WILOC04	4/14/2014 11:35	0.973		0.97	1000	1770	16.5	0.008	0.008		0.008	105
M17WILOC04	6/23/2014 11:30	1.68		1.77	1270	2260	2	0.004	0.005		0.005	
M17WILOC04	10/22/2014 10:15	3.28	3.42	3.42	3800	6140	14	ND	ND	ND	ND	
M17WILOC04	4/27/2015 12:00			2.25	1530	2610	5	ND			ND	
M17WILOC04	6/16/2015 10:28			1.86	2540	3960	ND	ND			ND	114
M17WILOC04	8/3/2015 14:10			1.2		5520	140	ND			0.009	
M17WILOC04	10/19/2015 10:08			1.4	4200	6530	108	ND			0.03	

Station ID	Activity Start	Strontium~ ~Dissolved	Strontium~ ~Dissolved	Strontium~ ~Total Recoverable	Sulfate~ ~Total	Total dissolved solids	Total suspeNDed solids	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Dissolved	Zinc~ ~Total Recoverable	Zinc~ ~Total Recoverable~ ~Dry
				4							0.3879/0.3878 2	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/g
M17WILOC04	6/20/2016 12:45			2.19	2480	3770	17	ND			0.009	215
M17WILOC04	8/22/2016 12:46			1.23	4320	6500	34	ND			0.012	
M17WILOC04	10/3/2016 10:29			1.39	4560	7700	30	ND			ND	
M17WLWFC01	6/12/2012 11:45											

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
Y23BENPC03	4/23/2013 18:00	11.36	3.73	8.83		Opaque	3499	13	10.7		
Y23BENPC03	6/25/2013 16:30	8.98	2.88	8.59	33.9	Turbid	3,916	29	27		
Y23BENPC03	8/7/2013 10:32				177						
Y23BENPC03	8/7/2013 10:32	5.43	1.5	8.4	194	Turbid	3274	23	18.7		
Y23BENPC03	10/23/2013 15:30	10.17	8	8.24	143	Opaque	3299	9	8.3		
Y23BENPC03	4/15/2014 18:13	9.42	3.59	8.27	239	Opaque	1981	11	8.1		
Y23BENPC03	6/24/2014 16:36	8.85	1.03	8.32	53.9	Turbid	4145	24	21.7		
Y23BENPC03	8/12/2014 15:11	12.74	0.86	8.41		Opaque	4.84	36	28		
Y23BENPC03	10/23/2014 15:35	10.79	0.65	8.53		Slight Turb	4636	15	10.6		
M50BMDYC11	7/12/2012 9:30	3.08	25	8.8	294	Opaque	2535	30	25.3		
M50BMDYC11	7/12/2012 9:45										
M50BMDYC11	10/17/2012 11:00	9.91	0.53	8.9		Turbid	4380	15	7.1	50.1	49.9
M50BMDYC11	10/17/2012 11:15									49.8	48.7
M50BMDYC11	4/23/2013 13:30										
M50BMDYC11	4/23/2013 13:30	12.68	412	8.98		Opaque	1041	13	4.5		
M50BMDYC11	6/25/2013 8:16	1.57	592	8.76	69.8	Turbid	1,998	22	22.5		
M50BMDYC11	8/6/2013 13:03	8.3	57.58	8.39	42	Turbid	2500	24	24.4		
M50BMDYC11	10/23/2013 7:50	9.78	20	8.63	25.1	Turbid	2422	6	6.6		
M50BMDYC11	4/15/2014 12:34	12.65	213	9	45.5	Turbid	1555	10	4.8		
M50BMDYC11	6/24/2014 12:11	7	95	8.57	74.3	Turbid	2499	19	19.8		
M50BMDYC11	8/12/2014 11:40	8.26	8.88	Opaque			2609	29.8	24.5		
M50BMDYC11	10/23/2014 11:15	10.2	103	9.18		Turbid	2549	14	9.4		
M50BMDYC11	4/28/2015 12:15	6.53		8.83		Turbid	2129	16	14		
M50BMDYC11	6/17/2015 13:21			8.73			1997	26	21.6		
M50BMDYC11	8/4/2015 12:15	8.61	44.5	9.01		Turbid	2420	22	23.8		
M50BMDYC11	10/20/2015 11:24	11.81	11	8.82		Turbid	3202	13	10.2		
M50BMDYC11	6/21/2016 15:42	5.44	4.7	9.2		Turbid	2396	26	26.9		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M50BMDYC11	8/23/2016 12:09	4.85	0.05	8.86		Turbid	3058	19	19		
M50BMDYC11	10/4/2016 10:45	5.78	4.9	8.85		Turbid	3244	7.5	14.9		
M50BMDYC12	6/13/2012 18:32	2.03	48			Opaque	3133	24	23.1		
Y23CABNC08	4/22/2013 11:16	1.32	8	8.81		Opaque	929	5	4.3		
Y23CABNC08	6/24/2013 11:34	5.93	44.4	8.04	16000	Opaque	946	28	19.8		
Y23CABNC08	8/5/2013 13:10	5.17	54.808	6.93	3810	Opaque	1318	31	20.6		
Y23CABNC08	10/22/2013 8:54	10.35	2	8.14	1260	Opaque	3672	10	6.2		
Y23CABNC08	4/16/2014 12:05	8.8	0.91	8.27	49.5	Turbid	1282	9	8.2		
Y23CABNC08	6/25/2014 15:03	9	0.63	8.51	15.3	Slight Turb	5720	26	23		
Y23CABNC08	8/13/2014 13:22	10.9	0.5	8.32		Turbid	4547	37	27.7		
Y23CABNC08	10/24/2014 14:30	12.1	0.18	8.61		Turbid	5770	16	9.5		
Y23CABNC08	4/29/2015 19:30	8.72	0.82	8.35		Clear	9940	22			
Y23CABNC08	6/18/2015 18:56	9.99	0.12	8.77		Slight Turb	3968	17	20.4		
Y23CABNC08	8/6/2015 9:17	4.79	0	8.26		Slight Turb	5090	18.5	20.4		
Y23CABNC08	10/21/2015 14:42	8.35	0.1	8.33		Clear	8252	19	12.8		
Y23CABNC08	6/23/2016 16:07	0.34	0.25	8.79		Turbid	1185	31	21.8		
Y23CABNC08	8/25/2016 8:22	8.17	0.02	8.92		Turbid	2249	13	13.2		
Y23CABNC08	10/5/2016 14:38	9.5	5.24	8.6		Turbid	1086	0.5	7.4		
Y23CEDRC04	4/22/2013 9:00	0.8	32.09	8.34		Opaque	1500	8	4.7		
Y23CEDRC04	6/24/2013 9:16	2.73	84.66	7.98	20300	Opaque	3,416	24	19.4		
Y23CEDRC04	8/5/2013 9:35	1.24	258.74	7.22	22800	Opaque	1769	26	19.7		
Y23CEDRC04	10/21/2013 15:00	5.5	3	8.41	31800	Opaque	1695	13	8.1		
Y23CEDRC04	10/21/2013 15:00				4030						
Y23CEDRC04	4/16/2014 8:00				23.3						
Y23CEDRC04	4/16/2014 8:00	8.24	1.05	8.34	22.7	Turbid	2827	1	5.1		
Y23CEDRC04	6/25/2014 13:05	4.04	2.05	8.56	14.5	Turbid	3127	22	20.1		
Y23CEDRC04	8/13/2014 11:14	0.82	0.13	8.1		Opaque	9530	33.5	25.4		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
Y23CEDRC04	10/24/2014 12:15	11.29	0.26			Slight Turb	5070	17.5	9.2		
Y23CEDRC04	4/30/2015 8:45										
Y23CEDRC04	6/19/2015 17:37	7.52	12.92	8.68		Opaque	3821	19.5	23.2		
Y23CEDRC04	8/5/2015 15:48	0.18	0	9.42		Turbid	2619	32	32.3		
Y23CEDRC04	10/21/2015 12:56	10.33	0	8.36		Slight Turb	8267	16	11.6		
Y23CEDRC04	6/22/2016 20:21	5.7	-0.04			Slight Turb	2265	20	21.1		
Y23CEDRC04	8/24/2016 14:24	8.05	0.42	8.98		Turbid	2474	20	20		
Y23CEDRC04	10/5/2016 12:33	10.46	7.9	8.43		Turbid	1332	5	7.3		
M51CHLYC04	6/13/2012 13:53	6.33	0.43			Slight Turb	1137	24	20.8		
M51CHLYC04	7/11/2012 18:00	6.65	0	9.2	15.7	Slight Turb	6770	34	30.2		
M51CHLYC04	10/17/2012 16:10	9.97	0.15	8.3		Slight turb	1263	9	9.1	215	169
M51CHLYC04	4/23/2013 11:30	11.63	5	9.07		Opaque	2995	15	7.1		
M51CHLYC04	6/25/2013 12:12	7.24	9.16	8.7	3.91	Slight Turb	4,572	27	24.5		
M51CHLYC04	8/6/2013 16:25	8.47		8.78	1.83	Slight Turb	6560	31	25.8		
M51CHLYC04	10/23/2013 11:30	8.72	1	9.91	6.29	Slight Turb	6700	12	6.8		
M51CHLYC04	4/15/2014 11:13	12.19	1	8.91	32.7	Opaque	4243	12	5		
M51CHLYC04	6/24/2014 10:47	2.22	1	8.76	2.01	Slight Turb	8380	20	18		
M51CHLYC04	8/12/2014 10:32	1.75	0	8.35			9160	25	21.2		
M51CHLYC04	10/23/2014 10:00	4.28	0.5	8.42		Slight Turb	8220	8.4	8		
M51CHLYC04	4/28/2015 11:00	8.79	0.3	8.76		Turbid	5240	23	14.9		
M51CHLYC04	6/17/2015 11:22	15.24	0.29	9.07		Slight Turb	7190	22	21.8		
M51CHLYC04	8/4/2015 10:42	3.16	0	8.32		Slight Turb	5690	27	20.6		
M51CHLYC04	10/20/2015 10:09	6.93	0.1	8.22		Clear	7099	12	9.8		
M51CHLYC04	6/21/2016 12:56	0.44	-0.06	9.36		Clear	1288	26	29.7		
M51CHLYC04	8/23/2016 10:31	1.95	0.01	8.62		Slight Turb	3530	20	17.3		
M51CHLYC04	10/4/2016 9:35	2.25	0	8.21		Turbid	5757	9	14.7		
M51CHLYC05	6/13/2012 15:49	7.58	1			Turbid	5.53	27	21.4		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M51CHLYC05	7/11/2012 16:30	6.29	0	8.5	84.4	Slight Turb	7170	34	29.3		
M51CHLYC05	10/17/2012 14:23	9.68	0.1	8.3		Opaque	1625	10	9.1	22.7	25.2
M51CHLYC05	4/23/2013 9:52	11.8	8	9.29		Opaque	3861	13	4		
M51CHLYC05	6/25/2013 10:24	6.53	47.2	8.82	243	Turbid	3,776		22.9		
M51CHLYC05	8/6/2013 14:56	4.84	77.72	8.4	2150	Turbid	5140	30	23.3		
M51CHLYC05	10/23/2013 9:50	11.06	5	9.11	35.2	Turbid	6680	5	6.1		
M51CHLYC05	4/15/2014 9:45	11.51	2.71	9.93	19.8	Turbid	3310	8	2.8		
M51CHLYC05	6/24/2014 9:11	6.91	9.81	8.88	34.2	Turbid	3315	17.5	17.4		
M51CHLYC05	8/12/2014 8:58	1.5	0	8.41		Turbid	2521	24.5	18.2		
M51CHLYC05	10/23/2014 9:00	9.68	1	9.06		Slight Turb	6610	6	5		
M51CHLYC05	4/28/2015 9:51	8.9	1.54	8.74		Turbid	6260	15	10.7		
M51CHLYC05	6/17/2015 9:21	9.55	0.16	9.32		Slight Turb	5670	18	15.3		
M51CHLYC05	8/4/2015 9:20	6.59	0	8.84		Slight Turb	7540	21.5	18.2		
M51CHLYC05	10/20/2015 8:54	9.46	0.1	8.28		Clear	6796	11.5			
M51CHLYC05	6/21/2016 10:43	6.3	3.86	9.3		Turbid	4760		25.5		
M51CHLYC05	8/23/2016 9:08	8.9	0.05	9.07		Clear	7412	17	15.1		
M51CHLYC05	10/4/2016 8:22	6.7	1.97	8.83		Turbid	853	8	13.4		
Y23DRMFC01	6/24/2014 19:41	3.51	1	7.78	1.83	Slight Turb	3033	21	20.7		
Y23DRMFC01	8/13/2014 9:06										
Y23DRMFC01	8/13/2014 9:06	1.1	0.5	7.84		Turbid	3745	23	17.9		
Y23DRMFC01	10/24/2014 8:20	7.88	<1	8.18		Turbid	3027	11	6		
Y23DRMFC01	4/29/2015 11:00	8.62	0.5	8.17		Clear	2740	24	13.1		
Y23DRMFC01	4/29/2015 11:00										
Y23DRMFC01	6/19/2015 12:00	8.43	0.04	8.12		Clear	2907	24	22.6		
Y23DRMFC01	8/5/2015 12:14		0								
Y23DRMFC01	10/21/2015 9:58										
Y23DRMFC01	10/21/2015 10:08	11.29	0.25	8.16			3414	11	3.8		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
Y23DRMFC01	6/22/2016 15:47		0								
Y23DRMFC01	8/24/2016 12:10		0								
Y23DEERC01	6/25/2014 8:11				17.2						
Y23DEERC01	6/25/2014 8:11	8	3.29	8.35	16.1	Slight Turb	3579	17	16.5		
Y23DEERC01	8/13/2014 7:14	4.7	0.2	8.34		Turbid	3401	18	20.6		
Y23DRSFC01	10/24/2014 9:54	3.42	1	7.8		Turbid	5030	11.5	7.1		
Y23DRSFC01	10/24/2014 9:54										
Y23DRSFC01	4/29/2015 12:15	9.5	0.4	8.01		Clear	4167	22	16.8		
Y23DRSFC01	6/19/2015 14:02	2.24	0	7.58		Slight Turb	5340	21.5	19.9		
Y23DRSFC01	8/5/2015 13:24	2.23	0	7.81		Slight Turb	8350	31.5	25.8		
Y23DRSFC01	10/21/2015 11:30		0	14.8							
Y23DRSFC01	6/22/2016 16:56	3.43	0	9.16		Slight Turb	9830	21	28.6		
Y23DRSFC01	8/24/2016 12:54		0								
Y23DRSFC01	10/5/2016 11:00		0								
M51FORMC04	4/23/2013 16:30	8.17	6	8.87			2672	17	10.4		
M51FORMC04	6/25/2013 14:13				2.88						
M51FORMC04	6/25/2013 14:13	8.55	28.7	8.63	3.45	Slight Turb	3,736	28	25.4		
M51FORMC04	10/23/2013 13:58	8.15		9.35	9.72	Slight Turb	4422	12	8.7		
M51FORMC04	4/15/2014 15:00	10.45	1.11	8.5	43.6	Turbid	2920	15	8.3		
M51FORMC04	6/24/2014 13:53	9.09	1	8.81	4.67	Slight Turb	3950	28	19.7		
M51FORMC04	8/12/2014 13:40	11.74	0	8.92		Turbid	6140	35	33.2		
M51FORMC04	10/23/2014 12:30	7.96	0.5	8.56		Slight Turb	4316	19	11		
M51FORMC04	4/28/2015 19:15	13.06	1.2	8.74		Turbid	4200	14	17.4		
M51FORMC04	4/28/2015 19:15										
M51FORMC04	6/17/2015 17:57	12.38	0.2	9.31		Slight Turb	5520	18.5	26.2		
M51FORMC04	8/5/2015 8:38	5.88	0	9.02		Slight Turb	10950	19.5	22.6		
M51FORMC04	10/20/2015 18:31	9.9	0.1	8.51		Clear	5608	10	10.7		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M51FORMC04	6/22/2016 8:09	0.24	-0.18	9.41		Turbid	4801	19	17.3		
M51FORMC04	8/24/2016 8:09	1.76	0	9.23		Slight Turb	8337	12	16.7		
M51FORMC04	10/4/2016 16:03	9.23	0	8.55		Turbid	5720	8	14.1		
Y23FXEFC01	10/23/2014 14:10	11.86	0	8.61		Slight Turb	1455	20.5	9.9		
Y23FXEFC02	4/29/2015 9:00	5.58	0.2	8.12		Clear	4029	14	8.9		
Y23FXEFC02	6/18/2015 14:02	10.83	0	9.18			3937	12	17.9		
Y23FXEFC02	8/5/2015 10:16	11.63	0	9.17		Clear	5160	23	25.4		
Y23FXEFC02	10/21/2015 7:35	2.05	0	8.39		Slight Turb	7191	2.5	6.7		
Y23FXEFC02	6/22/2016 11:22										
Y23FXEFC02	6/22/2016 11:22	1.79	0	9.57		Turbid	2876	21	19.1		
Y23FXEFC02	8/24/2016 9:58	2.59	0	8.24		Turbid	4253	16	15.5		
Y23FXEFC02	10/5/2016 7:55										
Y23FXEFC02	10/5/2016 7:55	6.66	0	8.45		Slight Turb	3676	-3	6		
Y27LBVRC13	4/22/2013 16:30	10.67	11.76	9.33		Opaque	1823	10	8.2		
Y27LBVRC13	6/24/2013 16:56	6.95	28.6	8.75	52.7	Turbid	1,748	27.5	24.4		
Y27LBVRC13	8/5/2013 17:05	5.76	125.84	7.36	439	Turbid	516	25.5	23		
Y27LBVRC13	10/22/2013 13:40	10.95	20	8.95	52.8	Turbid	1609	13	7.8		
Y27LBVRC13	4/16/2014 16:00	9.99	36.51	8.6	13.3	Turbid	1366	4.5	9.2		
Y27LBVRC13	6/25/2014 18:35	7.79	22.11	8.58	61	Turbid	1569	24	23		
Y27LBVRC13	8/13/2014 16:26	9.36	7	8.47			1521	33.2	25.7		
Y27LBVRC13	10/24/2014 16:50	10	8.81	8.74		Clear	1618	14	10.4		
Y27LBVRC13	4/29/2015 15:40										
Y27LBVRC13	8/6/2015 13:52	9.87	11.98	8.71		Slight Turb	1922	25	17.7		
Y27LBVRC13	10/21/2015 17:07	10.62	3.74	8.55		Clear	1699	18.6	11.1		
Y27LBVRC13	6/23/2016 20:42	6.75	1.16	9.33		Slight Turb	1630	22	22.9		
Y27LBVRC13	8/25/2016 12:59	9.3	1.08	8.85		Slight Turb	1819	19	17.7		
Y27LBVRC13	10/6/2016 7:43	10.45	8.82	8.83		Turbid	1377	-4	3.7		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M42LBOXC05	6/12/2012 14:38	7.37	74.32				396.9	24	17.4		
M42LBOXC05	7/10/2012 19:05	6.76	28.83	8.4	99	Turbid	495	27	25		
M42LBOXC05	10/16/2012 9:20	11.84	0.8	8.2		Slight turb	681	13	10	5.2	7.13
M42LBOXC06	4/23/2013 10:40	9.8	18.29	7.8		Turbid	608	30	3.5		
M42LBOXC06	4/23/2013 10:40										
M42LBOXC06	6/17/2013 17:15	8.76	100	8.3		Turbid	482.5	25	18.6		
M42LBOXC06	8/18/2013 17:45	9.06	11.69	8.5	10.9	Clear	606	31.6	22.9		
M42LBOXC06	10/7/2013 16:15	11.45	8.2	8.5	10.5	Slight Turb	689	21.1	10.8		
M42LBOXC05	4/14/2014 15:30	10.68	23.38	8.9	28.7	Turbid	497.1	17	6.5		
M42LBOXC05	6/23/2014 14:30	7.51	13.52	8.64	47.7	Turbid	536	31	19.9		
M42LBOXC06	8/11/2014 14:10	6.5	2	8.53		Slight Turb	735	35	25.7		
M42LBOXC05	10/22/2014 13:30	11.21	8.9	8.71		Slight Turb	730	15	9.9		
M42LBOXC05	4/27/2015 15:15	7.94	15.48	9.48		Turbid	563	22	11.5		
M42LBOXC05	6/16/2015 14:23										
M42LBOXC05	6/16/2015 14:24	9.37	7.88	8.52		Turbid	512	23	19		
M42LBOXC05	8/3/2015 16:33	8.17	6.89	8.31		Turbid	425	27	24.5		
M42LBOXC05	8/3/2015 16:47										
M42LBOXC05	10/19/2015 13:00	12.63	4.33	8.26		Clear	1033	15	8.1		
M42LBOXC05	6/20/2016 16:01	7.98	31.45	8.77		Turbid	443.3	31	21.2		
M42LBOXC05	8/22/2016 15:43	8.4	6.11	8.62		Slight Turb	592	26	19.1		
M42LBOXC05	10/3/2016 13:05	9.35	8.82	8.51		Turbid	805	8	12.6		
M50MEDL01	4/28/2015 17:15	10.06		9.04		Turbid	2097	19	14.1		
M50MEDL01	6/18/2015 9:44	8.42		9.01		Slight Turb	2131	15	19		
M50MEDL01	6/18/2015 10:01										
M50MEDL01	8/4/2015 14:00	7.02		9.95		Turbid	2366	27.5	25.5		
M50MEDL01	8/4/2015 14:12										
M50MEDL01	10/20/2015 16:08										

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M50MEDL01	10/20/2015 16:18	10.3		9.22		Turbid	2366	9.9	10.3		
M50MEDL01	6/23/2016 9:08										
M50MEDL01	6/23/2016 9:08	10.17		9.66		Turbid	2500	20	20.6		
M50MEDL01	8/23/2016 17:36										
M50MEDL01	8/23/2016 17:36	8.45		9.33		Turbid	2983	19.5	19.9		
M50MEDL01	10/4/2016 12:24										
M50MEDL01	10/4/2016 12:24	8.12		9.11		Turbid	2904	8.5	14.3		
Y22PENELC02	4/22/2013 12:40	0.5	1	8.84		Opaque	5350	7	5.2		
Y22PENELC02	6/24/2013 13:18	4.68	10.3	7.96	3420	Opaque	1,226	29.5	22.2		
Y22PENELC02	8/5/2013 15:05	0.33	0	7.07	32.9	Turbid	3857	30	19.6		
Y22PENELC02	10/22/2013 10:26	1.26	2	8.14	79.3	Opaque	4909	12	8.5		
Y22PENELC02	4/16/2014 13:30	8.9	1.5	8.11	19.8	Turbid	3437	6	8.6		
Y22PENELC02	6/25/2014 16:55	12.12	1	8.46	15.6	Turbid	5890	27	21.1		
Y22PENELC02	8/13/2014 14:40	1.12	0	8.34			8600	39.5	22.8		
Y22PENELC02	10/24/2014 15:56	13.24	1	8.48		Opaque	6660		9.3		
Y22PENELC02	4/29/2015 18:15	3.91	0.4	8.35		Clear	6080	25	17.5		
Y22PENELC02	6/18/2015 20:42	7.73	1.7	8.32		Slight Turb	6820	13	18.8		
Y22PENELC02	8/6/2015 10:50	8.38	0	9.2		Slight Turb	15060	22.5	23.9		
Y22PENELC02	10/21/2015 15:46	10.79	0.1	8.81			12,407	19	11.5		
Y22PENELC02	6/23/2016 18:27	0.89	1	9.69		Turbid	7850	24	24.4		
Y22PENELC02	8/25/2016 10:11	6.95	0	8.88		Slight Turb	9585	16.5	13.9		
Y22PENELC02	10/5/2016 15:48	8.55	0.1	8.06		Turbid	2350	1	6.7		
Y22SNSTC04	4/22/2013 14:15	13.28	2.39	9.84		Opaque	3025	10	8.3		
Y22SNSTC04	6/24/2013 15:00	5.76	214.8	8.04	334	Turbid	1,214	29.5	20.7		
Y22SNSTC04	8/6/2013 8:40	5.56	17.44	7.91	153	Turbid	1783	23	20.7		
Y22SNSTC04	10/22/2013 11:51	13.27	5	9.6	45.3	Opaque	3254	13	7.4		
Y22SNSTC04	4/16/2014 18:00	10.84	8.88	8.55	36.1	Turbid	2144	3	9		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
Y22SNSTC04	6/25/2014 20:20	7.35	1.01	8.34	36.4	Turbid	5150	24	23.5		
Y22SNSTC04	8/13/2014 17:53	6.33	2	8.34		Turbid	4681	31	26.3		
Y22SNSTC04	10/24/2014 18:15	6.73	<1	8.41		Turbid	4302	10	9.4		
Y22SNSTC04	4/29/2015 17:15	8.84	1	8.5		Turbid	4500	27	18.6		
Y22SNSTC04	6/19/2015 7:51	6.67	1.07	8.56		Turbid	5080	14	18.3		
Y22SNSTC04	8/6/2015 11:51	6.09	0	8.58		Turbid	4148	20.5	23.9		
Y22SNSTC04	10/22/2015 7:35	6.81	10	8.48			4750	6	7.3		
Y22SNSTC04	6/24/2016 8:20	0.23	-1.31	9.12		Turbid	3514	26	20.9		
Y22SNSTC04	8/25/2016 11:23	7.28	0.01	8.26		Slight Turb	3763	20	15.9		
Y22SNSTC04	10/6/2016 9:20	10.4	0.59	8.5		Turbid	2282	2	5		
M52ULDSP01	4/28/2015 14:45	10.31		8.79		Turbid	19690	19	16.2		
M52ULDSP01	8/4/2015 16:22	8.02		8.69		Turbid	27630	26.5	27.8		
M52ULDSP01	10/20/2015 13:46	8.58		8.3		Turbid	32,653	9.5	10.9		
M52ULDSP01	8/23/2016 14:40										
M52ULDSP01	8/23/2016 14:40	10.88		9.36		Turbid	42,440	20	21.9		
M39WHTWC09	7/11/2012 10:00	6.49	0	9.1	4.69	Slight Turb	3201	30	24.7		
M39WHTWC09	10/16/2012 13:15	9.06	0	9.06		Slight turb	4430	10.5	9.3	39.6	47
M39WHTWC09	4/23/2013 15:15	9.45	1.5	7.6		Turbid	931	4.4	9.6		
M39WHTWC09	6/18/2013 11:20	4.95	0.02	7.9		Turbid	988	22	21.2		
M39WHTWC09	6/18/2013 11:30	10.32	0	9		Slight turb	3236	29.4	22.9		
M39WHTWC09	8/19/2013 11:30				8.07						
M39WHTWC09	10/8/2013 10:45	11.2	0	8.8	10.5	Clear	3490	14.4	9.9		
M39WHTWC09	4/14/2014 19:00	9.37	0.2	8.64	25	Turbid	600	8	9.4		
M39WHTWC09	6/23/2014 17:43	8.91	0	8.15	8.1	Slight Turb	2439	24	22.1		
M39WHTWC09	8/11/2014 17:10	7.56	0	10.1		Slight Turb	2538	37	29.8		
M39WHTWC09	10/22/2014 18:45	9.2	1	8.51		Slight Turb	2382	7	10.4		
M39WHTWC09	4/27/2015 18:30	7.16	0	8.99		Slight Turb	1934	18	15.9		

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M39WHTWC09	6/16/2015 18:25	11.52	0	8.64		Slight Turb	3036	25.5	25.6		
M39WHTWC09	8/3/2015 19:11	9.34	0	8.75		Turbid	3300	24.5	26.4		
M39WHTWC09	10/19/2015 15:46	5.82	0	8.58		Turbid	3532	19.5	10.07		
M39WHTWC09	6/20/2016 20:17	3.06	-0.31	9.21		Turbid	2442	21	21.3		
M39WHTWC09	8/22/2016 18:40	5	0	8.41		Turbid	2442	18.5	21.8		
M39WHTWC09	10/3/2016 15:59	6.2	0	8.49		Turbid	2381	4.5	12.1		
M39WHTWC10	6/12/2012 18:33	4.48	0			Opaque	2796	21	23.3		
M17WILOC03	4/22/2013 18:20	12.72	4.47	7.3		Clear	2322	2.7	7.5		
M17WILOC03	6/17/2013 13:30	9.53	4.43	8.4		Slight Turb	288.5	24	21.4		
M17WILOC03	6/17/2013 13:30										
M17WILOC03	8/18/2013 13:55				9.03						
M17WILOC03	8/18/2013 13:55	8.04	0.02	8.6	7.85	Clear	4579	28.3	18.5		
M17WILOC03	10/7/2013 12:50	10.84	0	8.2	6.08	Clear	3591	17.2	9.8		
M17WILOC03	10/7/2013 13:00				5.86						
M17WILOC02	6/12/2012 10:45	8.1	7.49			Slight Turb	3052	23	17.5		
M17WILOC02	6/18/2012 11:23										
M17WILOC02	6/18/2012 11:25					Slight Turb					
M17WILOC02	7/10/2012 15:50	10.65	5.7	8.5	2.35	Clear	4188	35	26.8		
M17WILOC02	10/15/2012 16:37	15.16	0	8.97		Slight turb	4744	18	9.9	123	89.1
M17WILOC02	8/11/2014 10:45	7.03	0	5.05		Turbid	4841	30	20.3		
M17WILOC04	4/14/2014 11:35	10.69	29.45	8.9	16.7	Turbid	1881	12	4.4		
M17WILOC04	6/23/2014 11:30	8.93	16.18	8.48	2.54	Clear	2776	24	19.3		
M17WILOC04	10/22/2014 10:15	8.4	0	8.08		Turbid	6020	8	3.4		
M17WILOC04	4/27/2015 12:00	9.33	3.73	8.73		Clear	2515	16	10.1		
M17WILOC04	6/16/2015 10:28	10.45	0.02	8.94		Clear	2315	18	19		
M17WILOC04	8/3/2015 14:10	14.74	0	9.51		Turbid	5650	28	23.3		
M17WILOC04	10/19/2015 10:08	8.54	0	8.77		Slight Turb	771.3	11.5	6.3		

Appendix C. Inorganic results: Surface water

Station ID	Activity Start	Dissolved oxygen (DO)	Flow	pH	Turbidity	RBP Turbidity Code	Specific conductance	Temperature, air	Temperature, water	Sum of anions~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L	Sum of cations~~Total~~~~~~ MDEQ_WQ_WQX~1050(A)-MDEQ-WQ~~meq/L
		mg/l	ft3/sec	None	NTU		uS/cm	deg C	deg C		
M17WILOC04	6/20/2016 12:45	5.22	0.5	8.86		Clear	4068	27	18.7		
M17WILOC04	8/22/2016 12:46	5.87	0	9.01		Slight Turb	6960	20.5	17.7		
M17WILOC04	10/3/2016 10:29	5.63	0	8.95		Turbid	8143	8	10.6		
M17WLWFC01	6/12/2012 11:45		0								

Station ID	Activity Start	Activity Comment
Y23BENPC03	4/23/2013 18:00	
Y23BENPC03	6/25/2013 16:30	
Y23BENPC03	8/7/2013 10:32	- Duplicate to 4116-W
Y23BENPC03	8/7/2013 10:32	
Y23BENPC03	10/23/2013 15:30	
Y23BENPC03	4/15/2014 18:13	- Dissolved metal sample is field-filtered aND preserved.
Y23BENPC03	6/24/2014 16:36	- Dissolved metal sample is field-filtered aND preserved.
Y23BENPC03	8/12/2014 15:11	- Dissolved metal sample is field-filtered aND preserved.
Y23BENPC03	10/23/2014 15:35	
M50BMDYC11	7/12/2012 9:30	
M50BMDYC11	7/12/2012 9:45	- Duplicate to 4013-W
M50BMDYC11	10/17/2012 11:00	
M50BMDYC11	10/17/2012 11:15	- Duplicate to 4033-W
M50BMDYC11	4/23/2013 13:30	No sediment metals taken; sediment is too deep to access. - Duplicate to 4060-W(PAH)
M50BMDYC11	4/23/2013 13:30	No sediment metals taken; sediment is too deep to access.
M50BMDYC11	6/25/2013 8:16	
M50BMDYC11	8/6/2013 13:03	
M50BMDYC11	10/23/2013 7:50	Saw temperature logger, RB, six feet above water level. ULL Mercury bottle bags fell into water, put bottle into glove aND paper towel bags.
M50BMDYC11	4/15/2014 12:34	Temperature data logger #9866680 retrieved. - Dissolved metal sample is field-filtered aND preserved.
M50BMDYC11	6/24/2014 12:11	Dissolved metal sample is field-filtered aND preserved.
M50BMDYC11	8/12/2014 11:40	Dissolved metal sample is field-filtered aND preserved.
M50BMDYC11	10/23/2014 11:15	
M50BMDYC11	4/28/2015 12:15	
M50BMDYC11	6/17/2015 13:21	
M50BMDYC11	8/4/2015 12:15	
M50BMDYC11	10/20/2015 11:24	
M50BMDYC11	6/21/2016 15:42	

Station ID	Activity Start	Activity Comment
M50BMDYC11	8/23/2016 12:09	
M50BMDYC11	10/4/2016 10:45	
M50BMDYC12	6/13/2012 18:32	Site is too muddy to deploy temperature data logger.
Y23CABNC08	4/22/2013 11:16	
Y23CABNC08	6/24/2013 11:34	
Y23CABNC08	8/5/2013 13:10	
Y23CABNC08	10/22/2013 8:54	
Y23CABNC08	4/16/2014 12:05	Dissolved metal sample is field-filtered aND preserved.
Y23CABNC08	6/25/2014 15:03	Dissolved metal sample is field-filtered aND preserved.
Y23CABNC08	8/13/2014 13:22	Dissolved metal sample is field-filtered aND preserved.
Y23CABNC08	10/24/2014 14:30	Dissolved metal sample is field-filtered aND preserved.
Y23CABNC08	4/29/2015 19:30	
Y23CABNC08	6/18/2015 18:56	
Y23CABNC08	8/6/2015 9:17	
Y23CABNC08	10/21/2015 14:42	
Y23CABNC08	6/23/2016 16:07	
Y23CABNC08	8/25/2016 8:22	
Y23CABNC08	10/5/2016 14:38	Heavy turbidity from heavy precipitation the last few days.
Y23CEDRC04	4/22/2013 9:00	
Y23CEDRC04	6/24/2013 9:16	
Y23CEDRC04	8/5/2013 9:35	
Y23CEDRC04	10/21/2013 15:00	
Y23CEDRC04	10/21/2013 15:00	
Y23CEDRC04	4/16/2014 8:00	Duplicate to 4327-W. Dissolved metal sample is field-filtered aND preserved.
Y23CEDRC04	4/16/2014 8:00	Dissolved metal sample is field-filtered aND preserved.
Y23CEDRC04	6/25/2014 13:05	Dissolved metal sample is field-filtered aND preserved.
Y23CEDRC04	8/13/2014 11:14	Dissolved metal sample is field-filtered aND preserved.

Station ID	Activity Start	Activity Comment
Y23CEDRC04	10/24/2014 12:15	Site has significant sheen on surface downstream of bridge. Sheen gasoline-ish odor. Not present upstream of bridge. Seems to be coming from ~35 feet downstream of bri
Y23CEDRC04	4/30/2015 8:45	
Y23CEDRC04	6/19/2015 17:37	
Y23CEDRC04	8/5/2015 15:48	
Y23CEDRC04	10/21/2015 12:56	
Y23CEDRC04	6/22/2016 20:21	
Y23CEDRC04	8/24/2016 14:24	
Y23CEDRC04	10/5/2016 12:33	Heavy turbidity due to heavy precipitation the last few days.
M51CHLYC04	6/13/2012 13:53	
M51CHLYC04	7/11/2012 18:00	Extensive algal growth present along most of water.
M51CHLYC04	10/17/2012 16:10	
M51CHLYC04	4/23/2013 11:30	
M51CHLYC04	6/25/2013 12:12	
M51CHLYC04	8/6/2013 16:25	
M51CHLYC04	10/23/2013 11:30	
M51CHLYC04	4/15/2014 11:13	Dissolved metal sample is field-filtered aND preserved.
M51CHLYC04	6/24/2014 10:47	Dissolved metal sample is field-filtered aND preserved.
M51CHLYC04	8/12/2014 10:32	Dissolved metal sample is field-filtered aND preserved.
M51CHLYC04	10/23/2014 10:00	
M51CHLYC04	4/28/2015 11:00	
M51CHLYC04	6/17/2015 11:22	
M51CHLYC04	8/4/2015 10:42	
M51CHLYC04	10/20/2015 10:09	
M51CHLYC04	6/21/2016 12:56	
M51CHLYC04	8/23/2016 10:31	
M51CHLYC04	10/4/2016 9:35	
M51CHLYC05	6/13/2012 15:49	

Station ID	Activity Start	Activity Comment
M51CHLYC05	7/11/2012 16:30	
M51CHLYC05	10/17/2012 14:23	Site's water extremely turbid.
M51CHLYC05	4/23/2013 9:52	
M51CHLYC05	6/25/2013 10:24	
M51CHLYC05	8/6/2013 14:56	
M51CHLYC05	10/23/2013 9:50	
M51CHLYC05	4/15/2014 9:45	Dissolved metal sample is field-filtered aND preserved.
M51CHLYC05	6/24/2014 9:11	Dissolved metal sample is field-filtered aND preserved.
M51CHLYC05	8/12/2014 8:58	Silt covered bottom at > 10 inches deep. - Dissolved metal sample is field-filtered aND preserved.
M51CHLYC05	10/23/2014 9:00	
M51CHLYC05	4/28/2015 9:51	
M51CHLYC05	6/17/2015 9:21	
M51CHLYC05	8/4/2015 9:20	
M51CHLYC05	10/20/2015 8:54	
M51CHLYC05	6/21/2016 10:43	
M51CHLYC05	8/23/2016 9:08	
M51CHLYC05	10/4/2016 8:22	Heavy turbidity due to heavy rainfall. Isotope sample couldn't be ran due to excess sediment. - No dissolved metals sample submitted to lab.
Y23DRMFC01	6/24/2014 19:41	Dissolved metal sample is field-filtered aND preserved.
Y23DRMFC01	8/13/2014 9:06	- Dissolved metal sample is field-filtered aND preserved. Duplicate to 4410-W.
Y23DRMFC01	8/13/2014 9:06	Dissolved metal sample is field-filtered aND preserved.
Y23DRMFC01	10/24/2014 8:20	Dissolved metal sample is field-filtered aND preserved.
Y23DRMFC01	4/29/2015 11:00	
Y23DRMFC01	4/29/2015 11:00	
Y23DRMFC01	6/19/2015 12:00	
Y23DRMFC01	8/5/2015 12:14	
Y23DRMFC01	10/21/2015 9:58	
Y23DRMFC01	10/21/2015 10:08	- Duplicate to 5140-W.

Station ID	Activity Start	Activity Comment
Y23DRMFC01	6/22/2016 15:47	
Y23DRMFC01	8/24/2016 12:10	Dry bed.
Y23DEERC01	6/25/2014 8:11	- Duplicate to 4343-W. Dissolved metal sample is field-filtered aND preserved.
Y23DEERC01	6/25/2014 8:11	Dissolved metal sample is field-filtered aND preserved.
Y23DEERC01	8/13/2014 7:14	Dissolved metal sample is field-filtered aND preserved.
Y23DRSFC01	10/24/2014 9:54	
Y23DRSFC01	10/24/2014 9:54	Dissolved metal sample is field-filtered aND preserved.
Y23DRSFC01	4/29/2015 12:15	
Y23DRSFC01	6/19/2015 14:02	
Y23DRSFC01	8/5/2015 13:24	
Y23DRSFC01	10/21/2015 11:30	Dry bed.
Y23DRSFC01	6/22/2016 16:56	Duplicate 523 2-W.
Y23DRSFC01	8/24/2016 12:54	Dry bed.
Y23DRSFC01	10/5/2016 11:00	
M51FORMC04	4/23/2013 16:30	
M51FORMC04	6/25/2013 14:13	- Duplicate to 4087-W(PAH)
M51FORMC04	6/25/2013 14:13	
M51FORMC04	10/23/2013 13:58	
M51FORMC04	4/15/2014 15:00	Dissolved metal sample is field-filtered aND preserved.
M51FORMC04	6/24/2014 13:53	Dissolved metal sample is field-filtered aND preserved.
M51FORMC04	8/12/2014 13:40	Dissolved metal sample is field-filtered aND preserved.
M51FORMC04	10/23/2014 12:30	
M51FORMC04	4/28/2015 19:15	
M51FORMC04	4/28/2015 19:15	
M51FORMC04	6/17/2015 17:57	
M51FORMC04	8/5/2015 8:38	
M51FORMC04	10/20/2015 18:31	

Station ID	Activity Start	Activity Comment
M51FORMC04	6/22/2016 8:09	
M51FORMC04	8/24/2016 8:09	Sample from straNDed pool, no visible flow.
M51FORMC04	10/4/2016 16:03	
Y23FXEFC01	10/23/2014 14:10	
Y23FXEFC02	4/29/2015 9:00	
Y23FXEFC02	6/18/2015 14:02	
Y23FXEFC02	8/5/2015 10:16	
Y23FXEFC02	10/21/2015 7:35	
Y23FXEFC02	6/22/2016 11:22	Duplicate to 5229-W.
Y23FXEFC02	6/22/2016 11:22	
Y23FXEFC02	8/24/2016 9:58	Sampled from large straNDed pool on east side of highway.
Y23FXEFC02	10/5/2016 7:55	Duplicate to 5180-W.
Y23FXEFC02	10/5/2016 7:55	
Y27LBVRC13	4/22/2013 16:30	
Y27LBVRC13	6/24/2013 16:56	
Y27LBVRC13	8/5/2013 17:05	
Y27LBVRC13	10/22/2013 13:40	
Y27LBVRC13	4/16/2014 16:00	Dissolved metal sample is field-filtered aND preserved.
Y27LBVRC13	6/25/2014 18:35	Dissolved metal sample is field-filtered aND preserved.
Y27LBVRC13	8/13/2014 16:26	Dissolved metal sample is field-filtered aND preserved.
Y27LBVRC13	10/24/2014 16:50	Dissolved metal sample is field-filtered aND preserved.
Y27LBVRC13	4/29/2015 15:40	
Y27LBVRC13	8/6/2015 13:52	
Y27LBVRC13	10/21/2015 17:07	
Y27LBVRC13	6/23/2016 20:42	
Y27LBVRC13	8/25/2016 12:59	
Y27LBVRC13	10/6/2016 7:43	

Station ID	Activity Start	Activity Comment
M42LBOXC05	6/12/2012 14:38	
M42LBOXC05	7/10/2012 19:05	
M42LBOXC05	10/16/2012 9:20	
M42LBOXC06	4/23/2013 10:40	
M42LBOXC06	4/23/2013 10:40	
M42LBOXC06	6/17/2013 17:15	Stream is not wadeable, though the current stage is about 4' lower than peak flows caused by recent rains.
M42LBOXC06	8/18/2013 17:45	
M42LBOXC06	10/7/2013 16:15	
M42LBOXC05	4/14/2014 15:30	Dissolved metal sample is field-filtered aND preserved.
M42LBOXC05	6/23/2014 14:30	Dissolved metal sample is field-filtered aND preserved.
M42LBOXC06	8/11/2014 14:10	Dissolved metal sample is field-filtered aND preserved.
M42LBOXC05	10/22/2014 13:30	Dissolved metal sample is field-filtered aND preserved.
M42LBOXC05	4/27/2015 15:15	
M42LBOXC05	6/16/2015 14:23	
M42LBOXC05	6/16/2015 14:24	- Duplicate to 4419-W.
M42LBOXC05	8/3/2015 16:33	
M42LBOXC05	8/3/2015 16:47	- Duplicate to 5202-W.
M42LBOXC05	10/19/2015 13:00	
M42LBOXC05	6/20/2016 16:01	
M42LBOXC05	8/22/2016 15:43	
M42LBOXC05	10/3/2016 13:05	
M50MEDL01	4/28/2015 17:15	
M50MEDL01	6/18/2015 9:44	
M50MEDL01	6/18/2015 10:01	- Duplicate to 4426-W.
M50MEDL01	8/4/2015 14:00	
M50MEDL01	8/4/2015 14:12	Duplicate to 5209-W.
M50MEDL01	10/20/2015 16:08	

Station ID	Activity Start	Activity Comment
M50MEDL01	10/20/2015 16:18	- Duplicate to 5136-W.
M50MEDL01	6/23/2016 9:08	Duplicate to 5235-W.
M50MEDL01	6/23/2016 9:08	
M50MEDL01	8/23/2016 17:36	Duplicate to 4296-W.
M50MEDL01	8/23/2016 17:36	
M50MEDL01	10/4/2016 12:24	Duplicate to 5177-W.
M50MEDL01	10/4/2016 12:24	
Y22PENELC02	4/22/2013 12:40	
Y22PENELC02	6/24/2013 13:18	
Y22PENELC02	8/5/2013 15:05	
Y22PENELC02	10/22/2013 10:26	
Y22PENELC02	4/16/2014 13:30	Dissolved metal sample is field-filtered aND preserved.
Y22PENELC02	6/25/2014 16:55	Dissolved metal sample is field-filtered aND preserved.
Y22PENELC02	8/13/2014 14:40	Dissolved metal sample is field-filtered aND preserved.
Y22PENELC02	10/24/2014 15:56	
Y22PENELC02	4/29/2015 18:15	
Y22PENELC02	6/18/2015 20:42	
Y22PENELC02	8/6/2015 10:50	
Y22PENELC02	10/21/2015 15:46	
Y22PENELC02	6/23/2016 18:27	
Y22PENELC02	8/25/2016 10:11	
Y22PENELC02	10/5/2016 15:48	
Y22SNSTC04	4/22/2013 14:15	
Y22SNSTC04	6/24/2013 15:00	
Y22SNSTC04	8/6/2013 8:40	
Y22SNSTC04	10/22/2013 11:51	Construction along side road, upstream of site, approximately 50 yards from creek.
Y22SNSTC04	4/16/2014 18:00	Dissolved metal sample is field-filtered aND preserved.

Station ID	Activity Start	Activity Comment
Y22SNSTC04	6/25/2014 20:20	Dissolved metal sample is field-filtered aND preserved.
Y22SNSTC04	8/13/2014 17:53	Dissolved metal sample is field-filtered aND preserved.
Y22SNSTC04	10/24/2014 18:15	Dissolved metal sample is field-filtered aND preserved.
Y22SNSTC04	4/29/2015 17:15	
Y22SNSTC04	6/19/2015 7:51	
Y22SNSTC04	8/6/2015 11:51	
Y22SNSTC04	10/22/2015 7:35	
Y22SNSTC04	6/24/2016 8:20	
Y22SNSTC04	8/25/2016 11:23	Samples aND flow collected below beaver dam.
Y22SNSTC04	10/6/2016 9:20	
M52ULDSP01	4/28/2015 14:45	
M52ULDSP01	8/4/2015 16:22	
M52ULDSP01	10/20/2015 13:46	
M52ULDSP01	8/23/2016 14:40	Duplicate to 4294-W.
M52ULDSP01	8/23/2016 14:40	
M39WHTWC09	7/11/2012 10:00	Site is a series of pools seperated by stretches of dry stream bed. Only Transect F.
M39WHTWC09	10/16/2012 13:15	No flow.
M39WHTWC09	4/23/2013 15:15	
M39WHTWC09	6/18/2013 11:20	
M39WHTWC09	6/18/2013 11:30	
M39WHTWC09	8/19/2013 11:30	
M39WHTWC09	10/8/2013 10:45	
M39WHTWC09	4/14/2014 19:00	
M39WHTWC09	6/23/2014 17:43	Dissolved metal sample is field-filtered aND preserved.
M39WHTWC09	8/11/2014 17:10	Dissolved metal sample is field-filtered aND preserved.
M39WHTWC09	10/22/2014 18:45	
M39WHTWC09	4/27/2015 18:30	

Station ID	Activity Start	Activity Comment
M39WHTWC09	6/16/2015 18:25	
M39WHTWC09	8/3/2015 19:11	
M39WHTWC09	10/19/2015 15:46	Noticed gasoline/oil sheen, decided to add BTEX to this site.
M39WHTWC09	6/20/2016 20:17	
M39WHTWC09	8/22/2016 18:40	
M39WHTWC09	10/3/2016 15:59	
M39WHTWC10	6/12/2012 18:33	Site is a stagnent, high-algae waterbody with visually no flow.
M17WILOC03	4/22/2013 18:20	
M17WILOC03	6/17/2013 13:30	
M17WILOC03	6/17/2013 13:30	
M17WILOC03	8/18/2013 13:55	- Duplicate to 4353-W
M17WILOC03	8/18/2013 13:55	
M17WILOC03	10/7/2013 12:50	
M17WILOC03	10/7/2013 13:00	
M17WILOC02	6/12/2012 10:45	
M17WILOC02	6/18/2012 11:23	PAH was not collected on 6/12/2012.
M17WILOC02	6/18/2012 11:25	Duplicate to 400 2-W (for PAH) aND 4244-W (collected on 6/12/2012)
M17WILOC02	7/10/2012 15:50	Willow Creek has extensive algal growth throughout length of creek.
M17WILOC02	10/15/2012 16:37	Main site dry.
M17WILOC02	8/11/2014 10:45	
M17WILOC04	4/14/2014 11:35	Dissolved metal sample is field-filtered aND preserved.
M17WILOC04	6/23/2014 11:30	Dissolved metal sample is field-filtered aND preserved.
M17WILOC04	10/22/2014 10:15	
M17WILOC04	4/27/2015 12:00	
M17WILOC04	6/16/2015 10:28	
M17WILOC04	8/3/2015 14:10	
M17WILOC04	10/19/2015 10:08	

Station ID	Activity Start	Activity Comment
M17WILOC04	6/20/2016 12:45	
M17WILOC04	8/22/2016 12:46	
M17WILOC04	10/3/2016 10:29	
M17WLWFC01	6/12/2012 11:45	Dry bed, no samples collected. - Dry Bed

Station ID	Activity Start
Y23BENPC03	4/23/2013 18:00
Y23BENPC03	6/25/2013 16:30
Y23BENPC03	8/7/2013 10:32
Y23BENPC03	8/7/2013 10:32
Y23BENPC03	10/23/2013 15:30
Y23BENPC03	4/15/2014 18:13
Y23BENPC03	6/24/2014 16:36
Y23BENPC03	8/12/2014 15:11
Y23BENPC03	10/23/2014 15:35
M50BMDYC11	7/12/2012 9:30
M50BMDYC11	7/12/2012 9:45
M50BMDYC11	10/17/2012 11:00
M50BMDYC11	10/17/2012 11:15
M50BMDYC11	4/23/2013 13:30
M50BMDYC11	4/23/2013 13:30
M50BMDYC11	6/25/2013 8:16
M50BMDYC11	8/6/2013 13:03
M50BMDYC11	10/23/2013 7:50
M50BMDYC11	4/15/2014 12:34
M50BMDYC11	6/24/2014 12:11
M50BMDYC11	8/12/2014 11:40
M50BMDYC11	10/23/2014 11:15
M50BMDYC11	4/28/2015 12:15
M50BMDYC11	6/17/2015 13:21
M50BMDYC11	8/4/2015 12:15
M50BMDYC11	10/20/2015 11:24
M50BMDYC11	6/21/2016 15:42

Station ID	Activity Start
M50BMDYC11	8/23/2016 12:09
M50BMDYC11	10/4/2016 10:45
M50BMDYC12	6/13/2012 18:32
Y23CABNC08	4/22/2013 11:16
Y23CABNC08	6/24/2013 11:34
Y23CABNC08	8/5/2013 13:10
Y23CABNC08	10/22/2013 8:54
Y23CABNC08	4/16/2014 12:05
Y23CABNC08	6/25/2014 15:03
Y23CABNC08	8/13/2014 13:22
Y23CABNC08	10/24/2014 14:30
Y23CABNC08	4/29/2015 19:30
Y23CABNC08	6/18/2015 18:56
Y23CABNC08	8/6/2015 9:17
Y23CABNC08	10/21/2015 14:42
Y23CABNC08	6/23/2016 16:07
Y23CABNC08	8/25/2016 8:22
Y23CABNC08	10/5/2016 14:38
Y23CEDRC04	4/22/2013 9:00
Y23CEDRC04	6/24/2013 9:16
Y23CEDRC04	8/5/2013 9:35
Y23CEDRC04	10/21/2013 15:00
Y23CEDRC04	10/21/2013 15:00
Y23CEDRC04	4/16/2014 8:00
Y23CEDRC04	4/16/2014 8:00
Y23CEDRC04	6/25/2014 13:05
Y23CEDRC04	8/13/2014 11:14

Station ID	Activity Start	
Y23CEDRC04	10/24/2014 12:15	·. Added BTEX to sampling parameters. - D
Y23CEDRC04	4/30/2015 8:45	
Y23CEDRC04	6/19/2015 17:37	
Y23CEDRC04	8/5/2015 15:48	
Y23CEDRC04	10/21/2015 12:56	
Y23CEDRC04	6/22/2016 20:21	
Y23CEDRC04	8/24/2016 14:24	
Y23CEDRC04	10/5/2016 12:33	
M51CHLYC04	6/13/2012 13:53	
M51CHLYC04	7/11/2012 18:00	
M51CHLYC04	10/17/2012 16:10	
M51CHLYC04	4/23/2013 11:30	
M51CHLYC04	6/25/2013 12:12	
M51CHLYC04	8/6/2013 16:25	
M51CHLYC04	10/23/2013 11:30	
M51CHLYC04	4/15/2014 11:13	
M51CHLYC04	6/24/2014 10:47	
M51CHLYC04	8/12/2014 10:32	
M51CHLYC04	10/23/2014 10:00	
M51CHLYC04	4/28/2015 11:00	
M51CHLYC04	6/17/2015 11:22	
M51CHLYC04	8/4/2015 10:42	
M51CHLYC04	10/20/2015 10:09	
M51CHLYC04	6/21/2016 12:56	
M51CHLYC04	8/23/2016 10:31	
M51CHLYC04	10/4/2016 9:35	
M51CHLYC05	6/13/2012 15:49	

Station ID	Activity Start
M51CHLYC05	7/11/2012 16:30
M51CHLYC05	10/17/2012 14:23
M51CHLYC05	4/23/2013 9:52
M51CHLYC05	6/25/2013 10:24
M51CHLYC05	8/6/2013 14:56
M51CHLYC05	10/23/2013 9:50
M51CHLYC05	4/15/2014 9:45
M51CHLYC05	6/24/2014 9:11
M51CHLYC05	8/12/2014 8:58
M51CHLYC05	10/23/2014 9:00
M51CHLYC05	4/28/2015 9:51
M51CHLYC05	6/17/2015 9:21
M51CHLYC05	8/4/2015 9:20
M51CHLYC05	10/20/2015 8:54
M51CHLYC05	6/21/2016 10:43
M51CHLYC05	8/23/2016 9:08
M51CHLYC05	10/4/2016 8:22
Y23DRMFC01	6/24/2014 19:41
Y23DRMFC01	8/13/2014 9:06
Y23DRMFC01	8/13/2014 9:06
Y23DRMFC01	10/24/2014 8:20
Y23DRMFC01	4/29/2015 11:00
Y23DRMFC01	4/29/2015 11:00
Y23DRMFC01	6/19/2015 12:00
Y23DRMFC01	8/5/2015 12:14
Y23DRMFC01	10/21/2015 9:58
Y23DRMFC01	10/21/2015 10:08

Station ID	Activity Start
Y23DRMFC01	6/22/2016 15:47
Y23DRMFC01	8/24/2016 12:10
Y23DEERC01	6/25/2014 8:11
Y23DEERC01	6/25/2014 8:11
Y23DEERC01	8/13/2014 7:14
Y23DRSFC01	10/24/2014 9:54
Y23DRSFC01	10/24/2014 9:54
Y23DRSFC01	4/29/2015 12:15
Y23DRSFC01	6/19/2015 14:02
Y23DRSFC01	8/5/2015 13:24
Y23DRSFC01	10/21/2015 11:30
Y23DRSFC01	6/22/2016 16:56
Y23DRSFC01	8/24/2016 12:54
Y23DRSFC01	10/5/2016 11:00
M51FORMC04	4/23/2013 16:30
M51FORMC04	6/25/2013 14:13
M51FORMC04	6/25/2013 14:13
M51FORMC04	10/23/2013 13:58
M51FORMC04	4/15/2014 15:00
M51FORMC04	6/24/2014 13:53
M51FORMC04	8/12/2014 13:40
M51FORMC04	10/23/2014 12:30
M51FORMC04	4/28/2015 19:15
M51FORMC04	4/28/2015 19:15
M51FORMC04	6/17/2015 17:57
M51FORMC04	8/5/2015 8:38
M51FORMC04	10/20/2015 18:31

Station ID	Activity Start
M51FORMC04	6/22/2016 8:09
M51FORMC04	8/24/2016 8:09
M51FORMC04	10/4/2016 16:03
Y23FXEFC01	10/23/2014 14:10
Y23FXEFC02	4/29/2015 9:00
Y23FXEFC02	6/18/2015 14:02
Y23FXEFC02	8/5/2015 10:16
Y23FXEFC02	10/21/2015 7:35
Y23FXEFC02	6/22/2016 11:22
Y23FXEFC02	6/22/2016 11:22
Y23FXEFC02	8/24/2016 9:58
Y23FXEFC02	10/5/2016 7:55
Y23FXEFC02	10/5/2016 7:55
Y27LBVRC13	4/22/2013 16:30
Y27LBVRC13	6/24/2013 16:56
Y27LBVRC13	8/5/2013 17:05
Y27LBVRC13	10/22/2013 13:40
Y27LBVRC13	4/16/2014 16:00
Y27LBVRC13	6/25/2014 18:35
Y27LBVRC13	8/13/2014 16:26
Y27LBVRC13	10/24/2014 16:50
Y27LBVRC13	4/29/2015 15:40
Y27LBVRC13	8/6/2015 13:52
Y27LBVRC13	10/21/2015 17:07
Y27LBVRC13	6/23/2016 20:42
Y27LBVRC13	8/25/2016 12:59
Y27LBVRC13	10/6/2016 7:43

Station ID	Activity Start
M42LBOXC05	6/12/2012 14:38
M42LBOXC05	7/10/2012 19:05
M42LBOXC05	10/16/2012 9:20
M42LBOXC06	4/23/2013 10:40
M42LBOXC06	4/23/2013 10:40
M42LBOXC06	6/17/2013 17:15
M42LBOXC06	8/18/2013 17:45
M42LBOXC06	10/7/2013 16:15
M42LBOXC05	4/14/2014 15:30
M42LBOXC05	6/23/2014 14:30
M42LBOXC06	8/11/2014 14:10
M42LBOXC05	10/22/2014 13:30
M42LBOXC05	4/27/2015 15:15
M42LBOXC05	6/16/2015 14:23
M42LBOXC05	6/16/2015 14:24
M42LBOXC05	8/3/2015 16:33
M42LBOXC05	8/3/2015 16:47
M42LBOXC05	10/19/2015 13:00
M42LBOXC05	6/20/2016 16:01
M42LBOXC05	8/22/2016 15:43
M42LBOXC05	10/3/2016 13:05
M50MEDL01	4/28/2015 17:15
M50MEDL01	6/18/2015 9:44
M50MEDL01	6/18/2015 10:01
M50MEDL01	8/4/2015 14:00
M50MEDL01	8/4/2015 14:12
M50MEDL01	10/20/2015 16:08

Station ID	Activity Start
M50MEDL01	10/20/2015 16:18
M50MEDL01	6/23/2016 9:08
M50MEDL01	6/23/2016 9:08
M50MEDL01	8/23/2016 17:36
M50MEDL01	8/23/2016 17:36
M50MEDL01	10/4/2016 12:24
M50MEDL01	10/4/2016 12:24
Y22PENELC02	4/22/2013 12:40
Y22PENELC02	6/24/2013 13:18
Y22PENELC02	8/5/2013 15:05
Y22PENELC02	10/22/2013 10:26
Y22PENELC02	4/16/2014 13:30
Y22PENELC02	6/25/2014 16:55
Y22PENELC02	8/13/2014 14:40
Y22PENELC02	10/24/2014 15:56
Y22PENELC02	4/29/2015 18:15
Y22PENELC02	6/18/2015 20:42
Y22PENELC02	8/6/2015 10:50
Y22PENELC02	10/21/2015 15:46
Y22PENELC02	6/23/2016 18:27
Y22PENELC02	8/25/2016 10:11
Y22PENELC02	10/5/2016 15:48
Y22SNSTC04	4/22/2013 14:15
Y22SNSTC04	6/24/2013 15:00
Y22SNSTC04	8/6/2013 8:40
Y22SNSTC04	10/22/2013 11:51
Y22SNSTC04	4/16/2014 18:00

Station ID	Activity Start
Y22SNSTC04	6/25/2014 20:20
Y22SNSTC04	8/13/2014 17:53
Y22SNSTC04	10/24/2014 18:15
Y22SNSTC04	4/29/2015 17:15
Y22SNSTC04	6/19/2015 7:51
Y22SNSTC04	8/6/2015 11:51
Y22SNSTC04	10/22/2015 7:35
Y22SNSTC04	6/24/2016 8:20
Y22SNSTC04	8/25/2016 11:23
Y22SNSTC04	10/6/2016 9:20
M52ULDSP01	4/28/2015 14:45
M52ULDSP01	8/4/2015 16:22
M52ULDSP01	10/20/2015 13:46
M52ULDSP01	8/23/2016 14:40
M52ULDSP01	8/23/2016 14:40
M39WHTWC09	7/11/2012 10:00
M39WHTWC09	10/16/2012 13:15
M39WHTWC09	4/23/2013 15:15
M39WHTWC09	6/18/2013 11:20
M39WHTWC09	6/18/2013 11:30
M39WHTWC09	8/19/2013 11:30
M39WHTWC09	10/8/2013 10:45
M39WHTWC09	4/14/2014 19:00
M39WHTWC09	6/23/2014 17:43
M39WHTWC09	8/11/2014 17:10
M39WHTWC09	10/22/2014 18:45
M39WHTWC09	4/27/2015 18:30

Station ID	Activity Start
M39WHTWC09	6/16/2015 18:25
M39WHTWC09	8/3/2015 19:11
M39WHTWC09	10/19/2015 15:46
M39WHTWC09	6/20/2016 20:17
M39WHTWC09	8/22/2016 18:40
M39WHTWC09	10/3/2016 15:59
M39WHTWC10	6/12/2012 18:33
M17WILOC03	4/22/2013 18:20
M17WILOC03	6/17/2013 13:30
M17WILOC03	6/17/2013 13:30
M17WILOC03	8/18/2013 13:55
M17WILOC03	8/18/2013 13:55
M17WILOC03	10/7/2013 12:50
M17WILOC03	10/7/2013 13:00
M17WILOC02	6/12/2012 10:45
M17WILOC02	6/18/2012 11:23
M17WILOC02	6/18/2012 11:25
M17WILOC02	7/10/2012 15:50
M17WILOC02	10/15/2012 16:37
M17WILOC02	8/11/2014 10:45
M17WILOC04	4/14/2014 11:35
M17WILOC04	6/23/2014 11:30
M17WILOC04	10/22/2014 10:15
M17WILOC04	4/27/2015 12:00
M17WILOC04	6/16/2015 10:28
M17WILOC04	8/3/2015 14:10
M17WILOC04	10/19/2015 10:08

Station ID	Activity Start
M17WILOC04	6/20/2016 12:45
M17WILOC04	8/22/2016 12:46
M17WILOC04	10/3/2016 10:29
M17WLWFC01	6/12/2012 11:45

D.Inorganic results: Groundwater

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
2926	47.7575	-104.3241	RICHLAND	WELL	110ALVM	40	MBMG	5/13/15	2	7.2	7.34	5640	MBMG	303.58	519.71	493.74	24.16	0.169 J
3019	47.8663	-104.6583	RICHLAND	WELL	125TGRV	46	MBMG	8/22/16	2	11.7	7.47	4212	MBMG	119.34	123.23	549.8	7.23	13.684
3232	47.9872	-104.0791	RICHLAND	WELL	125TGRV	212	MBMG	6/16/15	2	9.9	8.4	3234	MBMG	11.95	10.63	727.58	2.76	0.65
3233	47.9727	-104.0652	RICHLAND	WELL	125TGRV	440	MBMG	5/14/15	2	12.4	8.74	2165	MBMG	2.2	1.86	556.85	2.08	0.059 J
3483	48.1463	-104.1969	ROOSEVELT	WELL	211FHHC	1380	MBMG	7/7/15	2	24.4	8.72	2534	MBMG	2.08	0.6	587.92	1.63	0.097 J
3546	48.2627	-104.6728	ROOSEVELT	WELL	125FRUN	258	PRIVATE	9/4/14	2				PACE	15.8	7.94	607	3.58	0.77
3766	48.4908	-104.4542	SHERIDAN	WELL	112ALVM	233	MBMG	8/31/15	4	9.8	7.36	1809	MBMG	48.47	30.47	356.3	4.51	3.678
3767	48.4908	-104.4543	SHERIDAN	WELL	112OTSH	118	MBMG	8/3/15	4	21.1	7.4	2262	MBMG	147.66	81.51	288.62	6.44	3.71
3772	48.5550	-104.1818	SHERIDAN	WELL	125FRUN	318	MBMG	9/21/16	2	9.3	8.16	2627	MBMG	2.02	0.96	581.66	1.95	<0.075 U
3773	48.5550	-104.1819	SHERIDAN	WELL	112OTSH	143	MBMG	9/21/16	3	8.4	7.06	1552	MBMG	126.24	62.13	91.83	4.89	2.95
3777	48.5338	-104.2056	SHERIDAN	WELL	112OTSH	80	MBMG	9/20/16	2	8.9	7.13	2239	MBMG	145.26	69.05	215.14	6.11	5.447
3858	48.6138	-104.1444	SHERIDAN	WELL	112OTSH	130	MBMG	8/30/15	3	8.4	7.57	949	MBMG	88.63	34.75	51.05	4.79	3.446
3869	48.5841	-104.1429	SHERIDAN	WELL	112OTSH	130	MBMG	8/31/15	3	9.6	7.22	899	MBMG	76.28	35.91	52.87	4.44	3.539
3871	48.5855	-104.1454	SHERIDAN	WELL	112OTSH	98	MBMG	8/30/15	3	8.4	7.64	769	MBMG	73.4	33.58	35.63	3.8	3.166
3872	48.5855	-104.1455	SHERIDAN	WELL	125FRUN	330	MBMG	8/30/15	2	10.4	8.75	1962	MBMG	2.02	0.93	498.83	2.24	<0.038 U
3941	48.6505	-104.3411	SHERIDAN	WELL	125TGRV	327	MBMG	8/25/16	2	10.4	6.62	1157	MBMG	84.66	45.93	72.1	5.25	0.437
3947	48.6855	-104.1440	SHERIDAN	WELL	112OTSH	110	MBMG	8/30/15	3	8.4	7.22	1483	MBMG	116.63	56.59	146.77	6.05	5.295
16570	46.0747	-104.1894	FALLON	WELL	125FRUN	154	MBMG	4/15/15	2	6.8	7.68	516.8	MBMG	44.76	32.2	7.47	1.97	0.016 J
19127	46.2877	-104.2252	FALLON	WELL	211FHHC	300	MBMG	4/14/15	2	12.2	6.65	3606	MBMG	192.07	149.41	616.89	5.19	4.997
20506	46.3956	-104.3053	FALLON	WELL	211HLCK	280	MBMG	10/8/15	1	12.6	7.94	3384	MBMG	9.36	2.64	832.07	1.92	0.150 J
20590	46.3713	-104.1777	FALLON	WELL	211FXHL	100	MBMG	4/13/15	2	10	6.41	876	MBMG	57.98	31.08	75.02	3.33	<0.015 U
20600	46.3375	-104.1477	FALLON	WELL	211HLCK	40	MBMG	4/13/15	2	8.8	7.22	2985	MBMG	294.33	149.34	228.32	5.29	0.096 J
21998	46.4161	-104.5672	FALLON	WELL	211HLCK	441	MBMG	4/16/15	2	11.6	8.81	1672	MBMG	1.75	0.57	426.21	1.02	0.057 J
22003	46.4072	-104.5409	FALLON	WELL	211FXHL	900	MBMG	10/6/15	1	15.9	9.22	1462	MBMG	1.28	0.23	356.39	0.78	0.046 J
22005	46.4788	-104.4258	FALLON	WELL	211FXHL	1087	MBMG	4/15/15	1	14.3	9.33	1513	MBMG	1.38	0.27	364.26	0.79	0.094 J
22009	46.4757	-104.4572	FALLON	WELL	125FRUN	30	MBMG	6/13/16	1	9.2	9.2	3753	MBMG	184.09	140.03	432.71	14.33	<0.150 U
22015	46.4575	-104.4502	FALLON	WELL	211FXHL	985	MBMG	4/14/15	1	14.5	9.23	1422	MBMG	1.23	0.24	353.3	0.73	<0.038 U
22016	46.4552	-104.4255	FALLON	WELL	125FRUN	120	MBMG	10/8/15	3	11.6	6.96	1266	MBMG	89.43	50.63	120.25	5.19	1.199
22033	46.4133	-104.5121	FALLON	WELL	211HLCK	360	MBMG	6/14/16	1	14.1	8.97	2032	MBMG	1.51	0.5	422.04	1.01	<0.038 U
22034	46.4133	-104.5121	FALLON	WELL	211FXHL	906	MBMG	6/13/16	1	16	9.19	1748	MBMG	1.56	0.27	380.39	0.85	<0.038 U
22044	46.4817	-104.3004	FALLON	WELL	211FXHL	80	MBMG	4/16/15	2	9.9	7.72	614.4	MBMG	41.58	25.56	58.66	2.52	<0.015 U
23666	46.6396	-104.4894	FALLON	WELL	211FHHC	120	MBMG	4/16/15	1	7.5	7.79	1761	MBMG	4.13	1.72	428.03	1.22	0.152 J
25940	46.9944	-108.6653	FERGUS	WELL		1128	PRIVATE	2/25/15	1				PACE	79.4	55	20.4	4.06	
26318	46.9441	-104.7788	DAWSON	WELL	211FXHL	365	MBMG	5/18/15	1	12.8	9.51	1386	MBMG	1.14	0.23	350.3	0.77	<0.038 U
26598	47.0806	-110.1580	JUDITH BASIN	WELL	217KOTN	686	TCCD	7/30/14	1	9.5	7.25	860	MBMG	68.76	34.48	91.89	6.32	0.388
27743	47.0163	-104.8219	DAWSON	WELL	111ALVM	33	MBMG	5/18/15	1	11.3	7.68	852	MBMG	72.73	36.61	62.71	2.84	<0.015 U
27857	47.0311	-104.8050	DAWSON	WELL	111TRRC	50	MBMG	5/11/15	3	10.9	7.07	1304	MBMG	125.65	50.33	83.85	8.58	<0.038 U
28143	47.5754	-110.2201	JUDITH BASIN	WELL	211CLRD	210	TCCD	7/28/14	1	9.8	7.91	592	MBMG	11.34	4.14	134.13	1.84	0.034 J
28318	47.1505	-110.0016	JUDITH BASIN	WELL	217KOTN	1120	TCCD	7/29/14	1	11.6	8.43	788	MBMG	2.89	1.08	213.04	1.41	0.025 J
28347	47.1234	-109.6872	FERGUS	WELL		20	PRIVATE	2/24/15	1				PACE	61.4	26.7	45.5	2.83	0.0567
28396	47.1020	-109.4578	FERGUS	WELL		140	PRIVATE	2/24/15	1				PACE	88	29.4	196	5.32	1.11
29033	47.1725	-104.7976	DAWSON	WELL	125FRUN	50	PRIVATE	8/5/14	1				PACE	165	144	691	10.9	0.438
29237	47.0951	-104.7710	DAWSON	WELL	211HLCK	100	MBMG	5/11/15	1	11.1	7.5	1089	MBMG	88.56	38.93	52.27	3.69	<0.038 U
29247	47.0951	-104.7602	DAWSON	WELL	211HLCK	80	MBMG	5/12/16	1	12	9.18	1481	MBMG	0.89	0.21	295.92	0.6	<0.038 U
29723	47.2403	-110.2372	JUDITH BASIN	WELL	110TRRC	15	TCCD	7/28/14	1	8	7.17	993	MBMG	107.68	49.43	64.19	2.77	0.019 J
29816	47.2343	-109.4061	FERGUS	WELL		138	PRIVATE	2/10/15	1	8.95	7.28	565	PACE	65	24.5	18.8	2.37	0.91
30256	47.2667	-105.0618	DAWSON	WELL	125TGRV	102	PRIVATE	8/5/14	1				PACE	3.85	2.83	664	1.91	0.154
30829	47.3112	-109.1835	FERGUS	WELL		392	PRIVATE	2/10/15	1	9.61	7.3	1730	PACE	34.3	16.3	384	2.35	0.364

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
2926	0.445 J	15.44	819.14	0	3245	88.25	8.42	0.43	<0.100 U	<1.000 U	<20.000 U	<1.000 U	1274.97	17.34	<1.000 U
3019	0.472 J	6.1	779.5	0	1320	8.72	<0.050 U	0.3	0.160 J	<1.000 U	<20.000 U	<1.000 U	556.38	7.94	<1.000 U
3232	0.013 J	7.99	1022.64	16.09	709	10.28	<0.050 U	3.14	<0.100 U	<0.500 U	<10.000 U	<0.500 U	147.55	17.49	<0.500 U
3233	<0.005 U	6.77	1105.93	31.04	255	16.23	<0.010 U	5.53	0.11	<0.250 U	<5.000 U	<0.250 U	108.15	17.71	<0.250 U
3483	<0.010 U	13.05	1128.61	24.49	0.600 J	284.4	<0.010 U	5.16	0.030 J	<0.500 U	12.060 J	1.860 J	1729.56	147.39	<0.500 U
3546	0.0212				303	4.4		0.36						18.5	
3766	0.109 J	19.06	1230.06	0	10.03	32.4	<0.010 U	0.99	<0.020 U	<0.250 U	<5.000 U	13.04	257.19	348.99	<0.250 U
3767	3.357	30.1	1140.79	0	350.5	42.17	<0.010 U	0.33	<0.020 U	<0.250 U	<5.000 U	29.09	250.03	26.36	<0.250 U
3772	<0.010 U	6.53	1430.72	0	1.240 J	103.7	<0.010 U	2.99	0.14	<0.500 U	<10.000 U	<0.500 U	497.1	146.19	<0.500 U
3773	0.225	25.24	612.49	0	273.6	3.27	<0.010 U	0.19	<0.020 U	<0.250 U	<5.000 U	9.5	166.36	21.36	<0.250 U
3777	0.13	27.8	805.38	0	482.6	16.09	0.05	0.25	<0.020 U	<0.250 U	<5.000 U	18.88	200.53	30.46	<0.250 U
3858	0.352	26.52	352.03	0	120.8	82.32	<0.010 U	0.21	<0.020 U	<0.100 U	<2.000 U	8.9	86.63	61.9	<0.100 U
3869	0.266	27.45	338.5	0	107.3	75.5	<0.010 U	0.25	<0.020 U	<0.100 U	<2.000 U	5.9	104.57	45.15	<0.100 U
3871	0.343	26.84	330.9	0	106.5	32.77	<0.010 U	0.23	<0.020 U	<0.100 U	<2.000 U	6.46	92.82	61.55	<0.100 U
3872	<0.005 U	6.43	1213.57	27.78	75.96	50.44	<0.010 U	4.18	0.11	<0.250 U	5.400 J	7.32	276.23	131.2	<0.250 U
3941	0.127	20.59	514.81	0	171	1.52	<0.010 U	0.09	<0.020 U	0.720 J	<5.000 U	<0.250 U	205.55	19.98	<0.250 U
3947	0.556	26.86	594.69	0	358.6	7.3	<0.010 U	0.32	<0.020 U	<0.250 U	<5.000 U	7.69	313.48	45.81	<0.250 U
16570	0.010 J	11.11	281.78	0	41.86	2.3	0.68	0.28	<0.020 U	<0.100 U	<2.000 U	0.370 J	33.84	29.35	<0.100 U
19127	0.068 J	28.46	756.53	0	1792	11.36	<0.050 U	<0.050 U	<0.100 U	<1.000 U	<20.000 U	<1.000 U	140.08	6.02	<1.000 U
20506	0.044 J	16.29	1065.59	0	929.9	4.69	<0.050 U	0.73	<0.100 U	<0.500 U	<10.000 U	<0.500 U	172.1	9.19	<0.500 U
20590	0.027 J	46.52	79.36	0	330.1	25.78	6.44	0.37	<0.020 U	<0.100 U	58.66	0.58	48.47	12.43	0.110 J
20600	0.808	19.96	339.7	0	1528	30.53	3.1	0.23	<0.020 U	<0.500 U	<10.000 U	<0.500 U	56.51	9.89	<0.500 U
21998	<0.005 U	7.23	1053.84	30.44	38.63	8.63	0.07	4.27	0.16	<0.250 U	10.440 J	0.600 J	901	94.47	<0.250 U
22003	0.006 J	11.67	645.6	36.66	157.3	19.18	<0.010 U	1.03	0.18	<0.250 U	<5.000 U	<0.250 U	323.74	51.35	<0.250 U
22005	0.005 J	10.12	609.87	50.67	212.2	18.78	<0.010 U	1.25	0.23	<0.250 U	<5.000 U	<0.250 U	617.09	48.13	<0.250 U
22009	<0.020 U	19.81	495.34	0	1390	42.03	8.33	0.47	<0.100 U	<1.000 U	<20.000 U	<1.000 U	296.06	25.86	<1.000 U
22015	<0.005 U	11.27	597.45	42.92	233.7	10.26	<0.010 U	0.86	0.17	<0.250 U	<5.000 U	<0.250 U	427.22	38.09	<0.250 U
22016	0.251	16.83	395.82	0	365.7	8.9	0.050 J	1.2	<0.020 U	<0.250 U	<5.000 U	0.540 J	140.94	17.86	<0.250 U
22033	<0.005 U	8	994.23	30.07	96.45	8.9	<0.010 U	4.54	0.26	<0.250 U	<5.000 U	1.03	1001.18	36.97	<0.250 U
22034	0.006 J	10.23	700.53	45.31	151.9	10.13	<0.010 U	1.72	0.32	1.080 J	<5.000 U	<0.250 U	559.63	72.47	<0.250 U
22044	0.006 J	14.93	338.6	0	41.82	5.68	3.54	0.66	<0.020 U	<0.100 U	<2.000 U	0.52	59.46	45.65	<0.100 U
23666	0.017 J	17.67	650.32	0	377.8	4.26	<0.010 U	0.54	0.14	<0.250 U	<5.000 U	<0.250 U	144.35	12.37	<0.250 U
25940	8.2														
26318	<0.005 U	8.64	652.22	62.95	59.26	39.15	<0.010 U	1.9	0.29	<0.250 U	<5.000 U	<0.250 U	621.82	43.9	<0.250 U
26598	0.012 J	6.06	374.95	0	226.7	2.85	<0.010 U	0.27	<0.020 U	<0.100 U	<2.000 U	<0.100 U	41.15	14.43	<0.100 U
27743	<0.002 U	13.07	320.34	0	193.7	17.02	0.06	0.46	<0.020 U	<0.100 U	<2.000 U	0.260 J	146.74	23.34	<0.100 U
27857	<0.005 U	20.95	562.7	0	212	31.4	4.87	0.23	<0.020 U	<0.250 U	<5.000 U	<0.250 U	155.12	85.81	<0.250 U
28143	0.027 J	7.92	323.13	0	90.69	5.1	<0.010 U	0.69	<0.020 U	<0.100 U	<2.000 U	<0.100 U	174.09	25.43	<0.100 U
28318	0.005 J	7.09	396.68	0	143	7.45	<0.010 U	0.94	<0.020 U	<0.100 U	<2.000 U	<0.100 U	41.13	18.14	<0.100 U
28347	9.5														
28396	0.371														
29033	0.0079				1800	17.7								18.8	
29237	0.067 J	14.37	292.32	0	34.25	187.13	0.37	0.36	<0.020 U	<0.250 U	<5.000 U	0.710 J	104.13	119.45	<0.250 U
29247	<0.005 U	8.22	635.13	34.6	110.6	6.36	<0.010 U	2.62	0.19	<0.250 U	<5.000 U	<0.250 U	652.59	18.81	<0.250 U
29723	<0.002 U	13.37	376.69	0	292	12.62	6.98	0.26	<0.020 U	<0.100 U	<2.000 U	0.370 J	70.87	22.11	<0.100 U
29816	4.1														
30256	0.006				599	7.6		3.8						21.1	
30829	3.52														

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
2926	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	169.88	<1.000 U	2.600 J	<0.600 U	<1.000 U	11.22	<1.000 U	4808.03	375.31	<1.000 U	44.65	<1.000 U
3019	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	86.720 J	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	3729.95	24.76	<1.000 U	<1.000 U	<1.000 U
3232	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	52.98	1.260 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	342.91	63.61	<0.500 U	<0.500 U	<0.500 U
3233	225	<0.250 U	<0.250 U	1.29	<1.250 U	36.4	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	99.22	11.58	<0.250 U	0.950 J	0.650 J
3483	2920	<0.500 U	<0.500 U	<0.500 U	<2.500 U	78.79	5.59	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	101.32	1.680 J	<0.500 U	<0.500 U	<0.500 U
3546													391				
3766	1230	<0.250 U	0.730 J	1.68	<1.250 U	33.19	7.65	2.02	<0.150 U	<0.250 U	<0.250 U	<0.250 U	693.01	34	<0.250 U	0.680 J	0.570 J
3767	837	<0.250 U	<0.250 U	1.28	<1.250 U	48.34	3.25	<0.250 U	<0.150 U	<0.250 U	2.34	<0.250 U	1256.55	108.88	<0.250 U	4.19	<0.250 U
3772	931	<0.500 U	<0.500 U	<0.500 U	<2.500 U	42.410 J	1.220 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	99.27	<0.500 U	<0.500 U	<0.500 U	<0.500 U
3773	73	<0.250 U	<0.250 U	<0.250 U	<1.250 U	50.83	1.28	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1150.84	4.62	<0.250 U	0.960 J	<0.250 U
3777	284	<0.250 U	<0.250 U	<0.250 U	<1.250 U	63.93	3.19	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1158.1	8.74	<0.250 U	1.54	<0.250 U
3858	440	<0.100 U	<0.100 U	0.440 J	<0.500 U	21.08	2.65	<0.100 U	<0.060 U	<0.100 U	0.76	<0.100 U	540.41	62.77	<0.100 U	0.51	<0.100 U
3869	424	<0.100 U	<0.100 U	0.350 J	<0.500 U	24.79	4.01	0.240 J	<0.060 U	<0.100 U	0.76	<0.100 U	502.43	50.14	<0.100 U	0.240 J	<0.100 U
3871	247	<0.100 U	0.200 J	0.440 J	<0.500 U	19.23	4.73	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	453.27	58.45	<0.100 U	0.250 J	<0.100 U
3872	796	<0.250 U	0.290 J	1.76	3.350 J	37.31	7.57	1.39	<0.150 U	1.64	1.53	<0.250 U	78.72	3.53	<0.250 U	1.28	4.96
3941	<10.000 U	<0.250 U	<0.250 U	<0.250 U	<1.250 U	31.5	0.960 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1385.95	5.15	<0.250 U	<0.250 U	<0.250 U
3947	<10.000 U	<0.250 U	<0.250 U	1.240 J	<1.250 U	53.35	1.45	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1170.22	86.24	<0.250 U	1.130 J	<0.250 U
16570	<10.000 U	<0.100 U	<0.100 U	0.74	1.010 J	14.08	0.56	<0.100 U	0.37	<0.100 U	9.01	<0.100 U	189.15	40.27	<0.100 U	26.38	0.240 J
19127	<50.000 U	<1.000 U	<1.000 U	2.520 J	<5.000 U	1006.94	4.520 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	1332.29	249.64	<1.000 U	<1.000 U	<1.000 U
20506	<50.000 U	<0.500 U	<0.500 U	1.560 J	<2.500 U	172.45	4.41	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	200.17	38.55	<0.500 U	<0.500 U	<0.500 U
20590	65	<0.100 U	0.280 J	0.300 J	48.26	101.62	0.240 J	6.43	0.77	<0.100 U	8.2	<0.100 U	416.25	55.22	<0.100 U	0.420 J	<0.100 U
20600	281	<0.500 U	<0.500 U	<0.500 U	<2.500 U	180.98	2.78	<0.500 U	2.54	<0.500 U	<0.500 U	<0.500 U	1914.38	320.58	<0.500 U	5.41	<0.500 U
21998	130	<0.250 U	1.39	2.84	<1.250 U	22.510 J	2.75	3	4.75	<0.250 U	<0.250 U	<0.250 U	67.35	40.83	<0.250 U	1.110 J	4.43
22003	323	<0.250 U	<0.250 U	0.810 J	<1.250 U	22.090 J	2.74	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	43.44	9.44	<0.250 U	<0.250 U	0.760 J
22005	185	<0.250 U	<0.250 U	1.61	<1.250 U	31.22	2.92	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	44.56	11.84	<0.250 U	<0.250 U	0.790 J
22009	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	185.89	3.620 J	<1.000 U	<0.600 U	<1.000 U	46.29	<1.000 U	3668.79	348.75	<1.000 U	41.80	<1.000 U
22015	130	<0.250 U	<0.250 U	1.45	<1.250 U	26.83	3.26	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	41.74	9.76	<0.250 U	<0.250 U	0.740 J
22016	91	<0.250 U	<0.250 U	<0.250 U	<1.250 U	53.81	1.31	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	836.06	54.35	<0.250 U	<0.250 U	<0.250 U
22033	135	<0.250 U	0.890 J	1.34	<1.250 U	25.08	6.84	1.69	0.550 J	<0.250 U	<0.250 U	<0.250 U	60.99	10.89	<0.250 U	0.580 J	2.64
22034	155	<0.250 U	<0.250 U	1.100 J	<1.250 U	24.270 J	5.97	0.770 J	0.730 J	<0.250 U	<0.250 U	<0.250 U	49.82	48.82	<0.250 U	0.650 J	1.200 J
22044	<10.000 U	<0.100 U	<0.100 U	0.92	1.850 J	41.35	1.04	<0.100 U	0.58	<0.100 U	7.65	<0.100 U	203.95	35.56	<0.100 U	21.93	0.350 J
23666	<10.000 U	<0.250 U	<0.250 U	1.5	<1.250 U	149.01	10.66	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	114.54	18.49	<0.250 U	<0.250 U	0.550 J
25940																	
26318	353	<0.250 U	<0.250 U	1.170 J	<1.250 U	32.35	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	41.38	4.17	<0.250 U	<0.250 U	<0.250 U
26598	<10.000 U	<0.100 U	<0.100 U	<0.100 U	<0.500 U	114.25	0.5	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	1083.99	56.06	<0.100 U	1.12	<0.100 U
27743	77	<0.100 U	<0.100 U	0.440 J	0.680 J	62.22	<0.100 U	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	655.98	61.5	<0.100 U	8.67	0.320 J
27857	85	<0.250 U	<0.250 U	1.170 J	6.05	61.3	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	703.28	114.71	<0.250 U	8.85	0.790 J
28143	67	<0.100 U	<0.100 U	<0.100 U	1.550 J	70.96	2.86	0.370 J	<0.060 U	<0.100 U	<0.100 U	<0.100 U	228.52	10.3	<0.100 U	<0.100 U	<0.100 U
28318	96	<0.100 U	<0.100 U	<0.100 U	1.420 J	86.74	4.62	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	58.96	7.28	<0.100 U	0.320 J	<0.100 U
28347	69																
28396																	
29033													2200				
29237	645	<0.250 U	<0.250 U	<0.250 U	<1.250 U	46.33	<0.250 U	<0.250 U	<0.150 U	<0.250 U	2.89	<0.250 U	801.44	72.18	<0.250 U	7.00	0.390 J
29247	39.000 J	<0.250 U	<0.250 U	<0.250 U	<1.250 U	29.28	2.48	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	28.54	3.45	<0.250 U	<0.250 U	<0.250 U
29723	84	<0.100 U	0.250 J	<0.100 U	4.1	34.81	3.35	<0.100 U	<0.060 U	<0.100 U	1.42	<0.100 U	1358.86	82.22	<0.100 U	11.46	<0.100 U
29816																	
30256													215				
30829																	

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
2926	5.870 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
3019	303.48	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
3232	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
3233	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.650 J	<0.250 U	<0.250 U
3483	9.380 J	<0.500 U	<0.500 U	<0.500 U	6.95	<0.500 U	<0.500 U
3546							
3766	<1.250 U	<0.250 U	<0.250 U	<0.250 U	14.24	<0.250 U	<0.250 U
3767	2.280 J	<0.250 U	<0.250 U	<0.250 U	1.31	<0.250 U	<0.250 U
3772	<2.500 U	<0.500 U	<0.500 U	<0.500 U	5.79	<0.500 U	<0.500 U
3773	2.340 J	<0.250 U	<0.250 U	<0.250 U	0.820 J	<0.250 U	<0.250 U
3777	<1.250 U	<0.250 U	<0.250 U	<0.250 U	1.170 J	<0.250 U	<0.250 U
3858	2.32	<0.100 U	<0.100 U	<0.100 U	2.59	<0.100 U	<0.100 U
3869	2.84	<0.100 U	<0.100 U	<0.100 U	1.88	<0.100 U	<0.100 U
3871	0.530 J	<0.100 U	<0.100 U	<0.100 U	2.60	<0.100 U	<0.100 U
3872	1.460 J	0.440 J	<0.250 U	<0.250 U	5.75	<0.250 U	<0.250 U
3941	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.850 J	<0.250 U	<0.250 U
3947	5.43	<0.250 U	<0.250 U	<0.250 U	1.98	<0.250 U	<0.250 U
16570	19.85	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U
19127	67.08	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
20506	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
20590	61.94	<0.100 U	<0.100 U	<0.100 U	<0.100 U	1.06	<0.100 U
20600	66.11	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
21998	<1.250 U	3.97	11.43	<0.250 U	<0.250 U	6.13	<0.250 U
22003	<1.250 U	<0.250 U	3.78	<0.250 U	2.21	1.60	<0.250 U
22005	<1.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
22009	62.21	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
22015	<1.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
22016	12.61	<0.250 U	<0.250 U	<0.250 U	0.690 J	<0.250 U	<0.250 U
22033	<1.250 U	0.640 J	<0.250 U	<0.250 U	1.65	<0.250 U	<0.250 U
22034	<1.250 U	1.66	9.24	<0.250 U	3.28	4.17	<0.250 U
22044	59.84	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U
23666	9.17	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
25940							
26318	<1.250 U	<0.250 U	<0.250 U	<0.250 U	1.71	<0.250 U	<0.250 U
26598	0.890 J	<0.100 U	<0.100 U	<0.100 U	0.61	<0.100 U	<0.100 U
27743	14.18	<0.100 U	<0.100 U	<0.100 U	0.85	<0.100 U	<0.100 U
27857	55.68	<0.250 U	<0.250 U	<0.250 U	3.16	<0.250 U	<0.250 U
28143	60.01	<0.100 U	<0.100 U	<0.100 U	1.15	<0.100 U	<0.100 U
28318	4.11	<0.100 U	<0.100 U	<0.100 U	0.87	<0.100 U	<0.100 U
28347							
28396							
29033							
29237	40.17	<0.250 U	<0.250 U	<0.250 U	4.60	<0.250 U	<0.250 U
29247	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.720 J	<0.250 U	<0.250 U
29723	21.17	<0.100 U	<0.100 U	<0.100 U	0.93	<0.100 U	<0.100 U
29816							
30256							
30829							

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
2926	<1.000 U	3.360 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	6.61	8.03	5101	5516	2897	672	3.9933	DISSOLVED
3019	<1.000 U	<1.000 U	<1.000 U	3.220 J	<1.000 U	<1.000 U	<0.050 U	<0.200 U	2.23	2533	2929	805	640	8.4336	DISSOLVED
3232	<0.500 U	<0.500 U	<0.500 U	2.78	<0.500 U	<0.500 U	<0.050 U	<0.200 U	<1.000 U	2005	2524	74	866	36.9251	DISSOLVED
3233	<0.250 U	<0.250 U	<0.250 U	2.06	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.31	1423	1984	13	959	66.8366	DISSOLVED
3483	<0.500 U	<0.500 U	<0.500 U	2.030 J	<0.500 U	1.310 J	<0.010 U	<0.200 U	1.00	1475	2048	8	966	92.4273	DISSOLVED
3546										943	943	72	0	31.0985	DISSOLVED
3766	<0.250 U	0.330 J	<0.250 U	1.49	<0.250 U	1.000 J	<0.010 U	0.61	3.28	1112	1736	246	1009	9.8675	DISSOLVED
3767	<0.250 U	1.190 J	<0.250 U	1.060 J	<0.250 U	<0.250 U	<0.010 U	0.25	3.03	1516	2095	704	936	4.7388	DISSOLVED
3772	<0.500 U	<0.500 U	<0.500 U	2.220 J	<0.500 U	<0.500 U	<0.010 U	0.21	<1.000 U	1406	2132	9	1174	84.4378	DISSOLVED
3773	<0.250 U	0.650 J	<0.250 U	2.78	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.09	892	1202	571	502	1.6754	DISSOLVED
3777	<0.250 U	0.670 J	<0.250 U	1.35	<0.250 U	<0.250 U	<0.010 U	<0.200 U	2.21	1364	1772	647	660	3.6782	DISSOLVED
3858	<0.100 U	0.470 J	<0.100 U	0.70	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	586	764	364	289	1.1626	DISSOLVED
3869	<0.100 U	0.50	<0.100 U	0.63	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	550	722	338	278	1.2539	DISSOLVED
3871	<0.100 U	0.380 J	<0.100 U	0.60	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	480	648	321	271	0.8737	DISSOLVED
3872	<0.250 U	<0.250 U	<0.250 U	3.49	<0.250 U	0.630 J	<0.010 U	<0.200 U	1.77	1266	1882	9	1042	72.8982	DISSOLVED
3941	<0.250 U	0.890 J	<0.250 U	5.51	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.26	655	917	400	422	1.5656	DISSOLVED
3947	<0.250 U	0.520 J	<0.250 U	1.34	<0.250 U	<0.250 U	0.14	<0.200 U	1.02	1018	1320	524	488	2.7939	DISSOLVED
16570	<0.100 U	<0.100 U	<0.100 U	0.74	<0.100 U	<0.100 U	<0.010 U	0.60	<1.000 U	281	424	244	231	0.1949	DISSOLVED
19127	<1.000 U	<1.000 U	<1.000 U	7.06	<1.000 U	2.280 J	<0.050 U	<0.200 U	9.83	3172	3557	1095	621	8.1147	DISSOLVED
20506	<0.500 U	<0.500 U	<0.500 U	2.400 J	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.68	2323	2864	34	874	61.873	DISSOLVED
20590	1.78	0.420 J	0.370 J	7.98	<0.100 U	<0.100 U	<0.010 U	5.31	6.19	615	655	273	65	1.9762	DISSOLVED
20600	<0.500 U	1.810 J	<0.500 U	5.06	<0.500 U	1.030 J	<0.010 U	2.62	3.56	2427	2600	1350	279	2.7005	DISSOLVED
21998	5.19	<0.250 U	1.38	1.44	5.02	<0.250 U	0.05	0.67	1.09	1038	1572	7	914	71.5301	DISSOLVED
22003	2.08	<0.250 U	<0.250 U	<0.250 U	1.080 J	0.660 J	<0.010 U	<0.200 U	1.13	903	1231	4	592	76.1101	DISSOLVED
22005	<0.250 U	<0.250 U	<0.250 U	1.040 J	<0.250 U	2.44	<0.010 U	<0.200 U	<1.000 U	960	1270	5	585	74.1982	DISSOLVED
22009	<1.000 U	3.490 J	<1.000 U	8.02	<1.000 U	<1.000 U	<0.050 U	7.43	8.06	2475	2726	1036	406	5.8534	DISSOLVED
22015	<0.250 U	<0.250 U	<0.250 U	1.050 J	<0.250 U	2.20	<0.010 U	<0.200 U	1.39	949	1251	4	561	76.2425	DISSOLVED
22016	<0.250 U	0.690 J	<0.250 U	2.75	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	854	1055	432	325	2.5131	DISSOLVED
22033	<0.250 U	<0.250 U	<0.250 U	1.160 J	<0.250 U	1.40	<0.010 U	<0.200 U	1.16	1063	1567	6	865	76.0615	DISSOLVED
22034	5.24	<0.250 U	1.29	<0.250 U	2.84	1.81	<0.010 U	<0.200 U	1.18	947	1303	5	650	73.9014	DISSOLVED
22044	<0.100 U	<0.100 U	<0.100 U	1.62	<0.100 U	<0.100 U	<0.010 U	3.22	3.89	364	536	209	278	1.7757	DISSOLVED
23666	<0.250 U	<0.250 U	<0.250 U	1.52	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1156	1486	17	533	44.6573	DISSOLVED
25940										166	166	425	0	0.4223	DISSOLVED
26318	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	1.65	<0.010 U	<0.200 U	1.15	846	1176	4	640	78.199	DISSOLVED
26598	<0.100 U	1.01	<0.100 U	6.25	<0.100 U	<0.100 U	<0.010 U	<0.200 U	1.54	622	812	314	308	2.2605	DISSOLVED
27743	<0.100 U	0.56	<0.100 U	0.85	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	557	719	332	262	1.5038	DISSOLVED
27857	<0.250 U	<0.250 U	<0.250 U	4.55	<0.250 U	<0.250 U	<0.010 U	4.23	4.71	815	1101	521	462	1.6015	DISSOLVED
28143	<0.100 U	0.230 J	<0.100 U	2.14	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	416	580	45	265	8.6579	DISSOLVED
28318	<0.100 U	<0.100 U	<0.100 U	1.46	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	572	773	12	326	27.1411	DISSOLVED
28347										147	147	263	0	1.2338	DISSOLVED
28396										319	319	341	0	4.6203	DISSOLVED
29033										2829	2829	1005	0	9.4856	DISSOLVED
29237	<0.250 U	0.660 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.010 U	0.29	<1.000 U	562	711	381	239	1.1587	DISSOLVED
29247	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	4.81	<0.010 U	<0.200 U	<1.000 U	774	1096	3	579	73.3132	DISSOLVED
29723	<0.100 U	1.34	<0.100 U	1.14	<0.100 U	<0.100 U	<0.010 U	6.00	6.22	735	926	472	309	1.2814	DISSOLVED
29816										116	116	263	0	0.5097	DISSOLVED
30256										1284	1284	21	0	62.6585	DISSOLVED
30829										441	441	153	0	13.5201	DISSOLVED

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
31497	47.2847	-105.0145	DAWSON	WELL	125TGRV	244	PRIVATE	8/7/14	1				PACE	3.18	2.03	438	1.57	2.6
32661	47.3894	-104.8130	DAWSON	WELL	125TGRV	320	PRIVATE	6/14/16	2				ENERGY	4810	3840	773000	2400	56.4
35534	47.6172	-105.6002	MCCONE	WELL		150	PRIVATE	10/13/14	1				PACE	25.2	22.2	1040	5.78	2.82
35683	47.6898	-104.3604	RICHLAND	WELL	125FRUN	300	PRIVATE	9/4/14	1				PACE	25.8	13.9	369	5.08	0.335
35876	47.6677	-104.1345	RICHLAND	WELL	211FHHC	1195	MBMG	5/20/15	1	16.9	8.9	1747	MBMG	1.4	0.38	479.33	1.22	<0.038 U
35881	47.6658	-104.1461	RICHLAND	WELL	110ALVM	50	MBMG	6/16/15	1	11.3	7.47	1658	MBMG	132.49	67.47	144.41	8.07	5.489
35945	47.6752	-104.0736	RICHLAND	WELL	125FRUN	148	MBMG	8/17/15	1	10.1	8.36	2311	MBMG	2.31	2.05	606.5	2.27	0.046 J
35949	47.6719	-104.0648	RICHLAND	WELL	211FXHL	1260	MBMG	5/21/15	1	15.3	8.98	1886	MBMG	1.44	0.36	466.17	1.28	<0.038 U
36258	47.7397	-105.0748	RICHLAND	WELL	125TGRV	75	MBMG	7/18/16	1	13.5	7.35	3298	MBMG	143.91	190.93	261.87	8.76	4.944
36466	47.7461	-104.3286	RICHLAND	WELL	125TGRV	124	MBMG	5/13/15	1	9	7.37	2515	MBMG	123.94	111.58	307.18	8.49	2.36
36572	47.7475	-104.1841	RICHLAND	WELL	125FRUN	578	MBMG	5/13/15	1	11.1	8.62	3004	MBMG	4.41	3.14	695.46	2.39	<0.075 U
36693	47.7150	-104.1636	RICHLAND	WELL	110ALVM	40	MBMG	7/6/15	2	11.1	7.52	1756	MBMG	135.27	109.52	91.83	9.15	0.884
37249	47.8647	-104.4674	RICHLAND	WELL	125FRUN	495	PRIVATE	3/1/16	1				PACE	22.1	15.9	705	4.12	1.88
37319	47.8625	-104.2858	RICHLAND	WELL	211FXHL	1720	MBMG	7/7/15	1	21.6	8.62	3579	MBMG	41.84	8.18	745.07	2.57	0.531 J
37875	47.9021	-105.1703	RICHLAND	WELL	110ALVM	28	PRIVATE	10/1/14	2				PACE	103	90.1	724	4.3	0
38021	47.8898	-104.5492	RICHLAND	WELL	125TGRV	242	PRIVATE	8/7/14	1				PACE	59.2	56.4	495	6.44	0.619
38568	47.9701	-104.9943	RICHLAND	WELL	125TLCK	353	PRIVATE	10/2/14	1				PACE	1.35	0.52	447	1.11	0.127
38693	47.9958	-104.4161	RICHLAND	WELL	125TGRV	140	MBMG	7/19/16	2	10.7	6.9	3601	MBMG	229.11	164.33	317.9	10.76	2.042
38701	47.9731	-104.3968	RICHLAND	WELL	125TGRV	150	PRIVATE	8/20/14	1				PACE	69.3	48.3	818	7.72	0.76
38750	47.9803	-104.0450	RICHLAND	WELL	211FHHC	1440	MBMG	6/15/15	1	15.6	8.62	2901	MBMG	3.3	1.3	746.48	2.56	<0.075 U
38755	47.9763	-104.0522	RICHLAND	WELL	211FHHC	1442	MBMG	5/14/15	1	18.1	8.74	2225	MBMG	1.99	0.5	516.52	1.79	<0.038 U
39482	48.1056	-104.0849	ROOSEVELT	WELL	125FRUN	77	MBMG	9/14/15	2	10	7.39	2892	MBMG	80.91	48.82	537.35	7.17	0.080 J
40257	48.1540	-104.5198	ROOSEVELT	WELL		220	MBMG	9/1/15	1	12.2	9.23	2065	MBMG	0.2	0.71	520.11	2.16	0.041 J
40259	48.1522	-104.5170	ROOSEVELT	WELL	112OTSH	84	MBMG	8/20/15	1	12.2	7.26	3564	MBMG	110.25	76.44	657.01	6.11	1.098
40285	48.1509	-104.3833	ROOSEVELT	WELL	125FRUN	130	PRIVATE	9/2/14	1				PACE	22.5	10.9	1090	3.8	0.455
40286	48.1476	-104.3827	ROOSEVELT	WELL	125FRUN	140	PRIVATE	9/2/14	1				PACE	37.5	22.2	1130	5.24	0.332
40296	48.1993	-104.2119	ROOSEVELT	WELL	125FRUN	162	MBMG	6/17/15	1	15	7.27	1533	MBMG	104.85	73.8	157.89	6.33	3.21
40297	48.2097	-104.2058	ROOSEVELT	WELL	125FRUN	150	MBMG	6/17/15	2	8.6	8.03	851	MBMG	56.41	28.84	77.6	4.6	<0.015 U
41327	48.2779	-104.6746	ROOSEVELT	WELL	125FRUN	133	MBMG	9/14/15	2	11.7	7.34	1418	MBMG	42.56	27.46	257.96	5.43	0.928
41388	48.2536	-104.4809	ROOSEVELT	WELL	125FRUN	95	PRIVATE	9/2/14	1				PACE	193	120	49.3	6.27	2.08
42005	48.3654	-107.6180	PHILLIPS	WELL	110ALVM	53	PRIVATE	10/15/14	1				PACE	115	45.1	515	7.97	0.436
42274	48.3600	-104.8963	ROOSEVELT	WELL	125FRUN	287	PRIVATE	9/3/14	1				PACE	2.51	1.47	502	1.63	0.309
42364	48.3474	-104.2866	ROOSEVELT	WELL	125FRUN	336	MBMG	8/4/15	2	10.4	8.49	2772	MBMG	21.94	21.09	657.47	4.39	0.158 J
43095	48.4325	-104.4816	SHERIDAN	PETWELL	211FHHC	1160	MBMG	8/18/15	3	10.9	8.99	3715	MBMG	3.05	1.01	865.21	2.67	0.166 J
44354	48.5054	-105.4312	ROOSEVELT	WELL	211HLCK	180	MBMG	7/19/16	1	12.3	7.84	1754	MBMG	8.92	2.82	365.06	2.96	0.043 J
44466	48.5496	-104.1396	SHERIDAN	WELL	112OTSH	91	MBMG	8/24/16	1	8.4	7.22	2425	MBMG	144.66	65.92	265.26	5.97	4.774
44473	48.5470	-104.1492	SHERIDAN	WELL	112OTSH	100	MBMG	8/24/16	1	9.6	7.17	2848	MBMG	0.72	0.260 J	604.98	0.860 J	0.106 J
45929	48.7163	-104.3606	SHERIDAN	WELL	125FRUN	130	MBMG	8/23/16	1	8.9	7.2	936	MBMG	89.84	40.71	30.51	3.39	0.616
46607	48.8072	-105.6443	DANIELS	WELL	110ALVM	35	PRIVATE	11/11/15	1				PACE	1.4	0.374	212	0.705	ND
46617	48.8128	-105.6274	DANIELS	WELL	125FRUN	60	PRIVATE	11/10/15	1				PACE	332	171	216	8.53	2.04
46940	48.7386	-104.3490	SHERIDAN	WELL		199	MBMG	8/23/16	1	9.2	7.08	1120	MBMG	124.15	48.56	20.51	3.34	1.354
47553	48.8817	-105.4241	DANIELS	WELL	112TILL	54	PRIVATE	11/11/15	1				PACE	156	69.6	607	7.48	1.88
48280	48.9694	-104.1936	SHERIDAN	WELL	112DRFT	40	PRIVATE	9/30/14	1				PACE	290	256	171	18.6	2.3
79510	47.6658	-104.1464	RICHLAND	WELL	211FHHC	1380	MBMG	8/5/15	2	18.1	8.87	2364	MBMG	2.01	0.54	594.73	1.56	<0.038 U
89179	48.6394	-112.2387	GLACIER	WELL	211VRGL	205	PRIVATE	9/15/15	1				PACE	281	272	244	5.92	0.483
89203	48.6382	-112.2393	GLACIER	WELL	211TMDC	197	PRIVATE	9/15/15	1				PACE	215	192	245	4.84	1.58

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
31497	0.008				237	6		3.4						12.2	
32661	4.7	7360			714	18.1		2.1							
35534	0.0398				1360	17.4		0.83						16.1	
35683	0.0286				284	7								22.8	
35876	<0.005 U	11.93	980.07	30.34	0.920 J	103.9	<0.010 U	4.46	0.14	<0.250 U	<5.000 U	0.670 J	1371.15	97.91	<0.250 U
35881	1.285	28.96	632.26	0	423.8	19.74	<0.010 U	0.24	<0.020 U	<0.250 U	<5.000 U	5.99	271.71	35.29	<0.250 U
35945	0.080 J	6.64	1572.63	19.34	12.21	11.73	<0.010 U	4.45	0.12	<0.250 U	<5.000 U	<0.250 U	71.78	137.53	<0.250 U
35949	<0.005 U	12.11	976.21	33.06	0.920 J	116.6	<0.010 U	4.64	0.12	<0.250 U	<5.000 U	0.830 J	1521.32	100.76	<0.250 U
36258	0.282	10	760.9	0	1182	20.77	0.32	0.33	0.150 J	<0.500 U	<10.000 U	<0.500 U	223.03	22.96	<0.500 U
36466	0.054 J	14.26	681.28	0	861	8.44	<0.010 U	0.23	<0.020 U	<0.500 U	<10.000 U	3.17	450.46	10.09	<0.500 U
36572	<0.010 U	6.73	835.77	19.13	723.4	8.37	<0.050 U	1.09	0.130 J	<0.500 U	<10.000 U	<0.500 U	272.01	12.88	<0.500 U
36693	0.597	23.5	519.99	0	536.7	39.44	0.32	0.21	<0.020 U	<0.250 U	<5.000 U	1.58	264.49	50.51	<0.250 U
37249	0.0301				1100	8.6		<0.20						10.4	
37319	0.032 J	14.59	995.05	21.13	2.670 J	815.1	<0.050 U	4.56	<0.100 U	<1.000 U	<20.000 U	3.130 J	1569.01	3039.71	<1.000 U
37875	0.0024				1440	8.7		0.65						13.6	
38021	0.0335				1080	12.5								9.3	
38568	0.0023					95.1		5.1						93.4	
38693	0.149 J	10.09	883.72	0	1141	4.19	<0.050 U	0.26	<0.100 U	<1.000 U	<20.000 U	<1.000 U	1092.93	8.09	<1.000 U
38701	0.0258				1350	8.1								5.5	
38750	<0.010 U	12.23	1678.36	18.9	0.990 J	186.9	<0.010 U	2.74	0.070 J	<0.500 U	<10.000 U	2.1	996.63	217.02	<0.500 U
38755	<0.005 U	11.99	1075.05	27.63	0.920 J	208.3	<0.010 U	5.05	0.050 J	<0.250 U	<5.000 U	1.66	1722.15	143.47	<0.250 U
39482	0.193 J	10.84	733.53	0	930.2	7.63	<0.010 U	0.3	<0.020 U	<0.500 U	<10.000 U	<0.500 U	523.97	9.87	<0.500 U
40257	<0.005 U	1.75	1178.92	103.74	3.3	19.48	0.040 J	5.19	0.090 J	<0.250 U	5.460 J	0.710 J	214.67	18.87	<0.250 U
40259	0.966	11.55	904.16	0	1263	9.92	<0.050 U	0.65	<0.100 U	<1.000 U	<20.000 U	<1.000 U	438.29	5.54	<1.000 U
40285	0.0192				1430	15		1.5						5.8	
40286	0.03				1340	15.1		0.84						5.5	
40296	0.433	13.64	737.9	0	306.4	1.75	0.040 J	0.13	<0.020 U	<0.250 U	<5.000 U	0.510 J	123.59	9.9	<0.250 U
40297	<0.002 U	3.65	208.56	0	243	14.66	0.050 J	0.59	<0.020 U	<0.100 U	71.12	1.23	111	41.69	<0.100 U
41327	0.074 J	12	714.47	0	199.6	4.01	<0.010 U	0.47	<0.020 U	<0.250 U	203.63	<0.250 U	307.22	18.63	<0.250 U
41388	0.151				503	4.3		0.25						17.4	
42005	2.17				1060	26.6		0.62						9.2	
42274	0.0036				408	16.1		1.3						7.7	
42364	0.254	8.67	888.98	0	754.1	21.59	<0.010 U	1.46	0.030 J	<0.500 U	<10.000 U	<0.500 U	196.43	10.79	<0.500 U
43095	0.284 J	9.32	994.39	30.47	2.640 J	766.6	<0.050 U	2.72	<0.100 U	<1.000 U	<20.000 U	5.27	1919.07	168.24	<1.000 U
44354	0.022 J	19.25	873.52	0	140.2	4.34	<0.010 U	0.41	0.060 J	<0.250 U	<5.000 U	<0.250 U	1446.75	18.73	<0.250 U
44466	0.055 J	25.69	899.16	0	443.5	52.68	0.08	0.25	<0.020 U	0.590 J	<5.000 U	23.02	243.5	19.08	<0.250 U
44473	<0.010 U	22.05	853.69	0	528.2	65.73	<0.010 U	0.25	<0.020 U	<0.500 U	<10.000 U	7.36	230.81	<0.500 U	<0.500 U
45929	0.076	19.26	436.48	0	121	1.62	<0.010 U	0.14	<0.020 U	0.210 J	<2.000 U	<0.100 U	86.86	21.55	<0.100 U
46607	0.0029				74.5	6.2		1.2						25.6	
46617	0.0196				1670	10.6		ND						11.5	
46940	0.051 J	20.9	474.93	0	188.4	1.5	<0.010 U	0.13	<0.020 U	0.750 J	<5.000 U	<0.250 U	62.34	16.68	<0.250 U
47553	1.42				945	55.7		0.25						0.0151	
48280	0.762				1770	37.2								7.5	
79510	0.014 J	12.21	1080.18	33.49	0.610 J	241.4	<0.010 U	4.82	0.080 J	<0.250 U	<5.000 U	1.86	1444.59	109.68	<0.250 U
89179	0.0107				2080	44.2		0.27						7.6	
89203	0.0404				1560	31.5		0.63						6.8	

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
31497	100												140				
32661																	
35534	150												1490				
35683													610				
35876	868	<0.250 U	<0.250 U	1.76	<1.250 U	54.06	<0.250 U	<0.250 U	<0.150 U	<0.250 U	0.550 J	<0.250 U	60.64	1.080 J	<0.250 U	<0.250 U	0.560 J
35881	<10.000 U	<0.250 U	0.530 J	<0.250 U	<1.250 U	59.78	1.57	1.69	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1215.76	121.11	<0.250 U	3.49	<0.250 U
35945	235	<0.250 U	<0.250 U	1.5	<1.250 U	32.33	0.970 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	113.52	<0.250 U	<0.250 U	<0.250 U	0.500 J
35949	968	<0.250 U	<0.250 U	1.96	<1.250 U	54.62	<0.250 U	<0.250 U	<0.150 U	<0.250 U	0.890 J	<0.250 U	60.62	2.1	<0.250 U	<0.250 U	0.780 J
36258	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	62.53	1.030 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	3841.65	21.97	<0.500 U	7.29	<0.500 U
36466	111	<0.500 U	<0.500 U	<0.500 U	<2.500 U	73.82	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	3614.81	130.73	<0.500 U	<0.500 U	<0.500 U
36572	<50.000 U	<0.500 U	<0.500 U	1.130 J	<2.500 U	48.920 J	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	225.92	38.58	<0.500 U	<0.500 U	<0.500 U
36693	137	<0.250 U	0.510 J	<0.250 U	<1.250 U	35.19	5.61	0.760 J	<0.150 U	<0.250 U	1.010 J	<0.250 U	1598.01	118.25	<0.250 U	10.23	0.710 J
37249	120										<0.50		786				
37319	4120	<1.000 U	<1.000 U	<1.000 U	<5.000 U	149.61	6.76	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	2198.06	15.4	<1.000 U	<1.000 U	<1.000 U
37875											5		2930				
38021													2460				
38568	780												74.2				
38693	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	124.76	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	5949.24	20.77	<1.000 U	<1.000 U	<1.000 U
38701													2280				
38750	1620	<0.500 U	<0.500 U	<0.500 U	<2.500 U	89.3	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	166.95	1.900 J	<0.500 U	<0.500 U	<0.500 U
38755	1930	<0.250 U	<0.250 U	1.42	<1.250 U	70.51	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	90.41	1.200 J	<0.250 U	<0.250 U	<0.250 U
39482	<10.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	137.29	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1639.58	107.92	<0.500 U	<0.500 U	<0.500 U
40257	530	<0.250 U	<0.250 U	1.74	1.620 J	30.6	19.48	0.740 J	<0.150 U	<0.250 U	<0.250 U	1.25	22.84	<0.250 U	<0.250 U	<0.250 U	<0.250 U
40259	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	72.010 J	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	1587.91	145	<1.000 U	4.890 J	<1.000 U
40285													686				
40286													1170				
40296	<10.000 U	<0.250 U	0.710 J	<0.250 U	<1.250 U	58.73	<0.250 U	1.85	<0.150 U	<0.250 U	<0.250 U	<0.250 U	938.04	96.12	<0.250 U	1.94	<0.250 U
40297	<10.000 U	<0.100 U	0.200 J	<0.100 U	19.94	65.87	2.63	1.54	0.210 J	0.430 J	0.79	<0.100 U	618.66	59.47	<0.100 U	3.81	0.61
41327	<10.000 U	<0.250 U	<0.250 U	<0.250 U	<1.250 U	98.85	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1088.87	119.63	<0.250 U	<0.250 U	<0.250 U
41388													2980				
42005													1060				
42274													100				
42364	341	<0.500 U	<0.500 U	<0.500 U	<2.500 U	53.88	1.660 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	714.54	19.36	<0.500 U	<0.500 U	<0.500 U
43095	6930	<1.000 U	<1.000 U	<1.000 U	<5.000 U	107.81	2.780 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	174.71	2.230 J	<1.000 U	<1.000 U	<1.000 U
44354	<10.000 U	<0.250 U	<0.250 U	<0.250 U	2.440 J	87.23	0.610 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	170.07	2.29	<0.250 U	<0.250 U	<0.250 U
44466	933	<0.250 U	<0.250 U	<0.250 U	<1.250 U	72.97	5.03	<0.250 U	<0.150 U	<0.250 U	1.7	<0.250 U	889	8.48	<0.250 U	2.33	<0.250 U
44473	969	<0.500 U	<0.500 U	<0.500 U	13.5	<10.000 U	6.02	<0.500 U	17.92	<0.500 U	<0.500 U	<0.500 U	4.73	10.6	<0.500 U	2.65	<0.500 U
45929	<10.000 U	<0.100 U	<0.100 U	<0.100 U	<0.500 U	19.57	0.310 J	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	947.48	4.49	<0.100 U	<0.100 U	<0.100 U
46607	85										ND		36.2				
46617	ND										0.93		5000				
46940	<10.000 U	<0.250 U	<0.250 U	<0.250 U	3.600 J	27.86	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1076.57	6.52	<0.250 U	<0.250 U	<0.250 U
47553	150										1.6		1770				
48280													1220				
79510	2600	<0.250 U	<0.250 U	<0.250 U	<1.250 U	70.16	4.43	<0.250 U	<0.150 U	<0.250 U	0.660 J	<0.250 U	85.5	<0.250 U	<0.250 U	<0.250 U	<0.250 U
89179	ND										94		7930				
89203	ND										27.7		7510				

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
31497							
32661							
35534							
35683							
35876	<1.250 U	<0.250 U	<0.250 U	<0.250 U	3.79	<0.250 U	<0.250 U
35881	2.910 J	<0.250 U	<0.250 U	<0.250 U	1.40	<0.250 U	<0.250 U
35945	1.850 J	1.050 J	<0.250 U	<0.250 U	6.30	<0.250 U	<0.250 U
35949	3.020 J	<0.250 U	<0.250 U	<0.250 U	4.03	<0.250 U	<0.250 U
36258	182.28	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
36466	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
36572	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
36693	1.850 J	<0.250 U	<0.250 U	<0.250 U	2.28	<0.250 U	<0.250 U
37249							
37319	13.110 J	<1.000 U	<1.000 U	<1.000 U	140.50	<1.000 U	<1.000 U
37875							
38021							
38568							
38693	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
38701							
38750	44.83	<0.500 U	<0.500 U	<0.500 U	9.21	<0.500 U	<0.500 U
38755	12.97	<0.250 U	<0.250 U	<0.250 U	5.38	<0.250 U	<0.250 U
39482	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
40257	2.650 J	<0.250 U	<0.250 U	<0.250 U	0.890 J	<0.250 U	<0.250 U
40259	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
40285							
40286							
40296	12.74	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
40297	1.110 J	<0.100 U	<0.100 U	<0.100 U	1.80	<0.100 U	<0.100 U
41327	3.790 J	<0.250 U	<0.250 U	<0.250 U	1.44	<0.250 U	<0.250 U
41388							
42005							
42274							
42364	29.74	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
43095	7.060 J	<1.000 U	<1.000 U	<1.000 U	7.76	<1.000 U	<1.000 U
44354	1.630 J	<0.250 U	<0.250 U	<0.250 U	0.750 J	<0.250 U	<0.250 U
44466	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.700 J	<0.250 U	<0.250 U
44473	2.990 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
45929	4.89	<0.100 U	<0.100 U	<0.100 U	0.76	<0.100 U	<0.100 U
46607							
46617							
46940	10.37	<0.250 U	<0.250 U	<0.250 U	0.660 J	<0.250 U	<0.250 U
47553							
48280							
79510	31.22	<0.250 U	<0.250 U	<0.250 U	4.85	<0.250 U	<0.250 U
89179							
89203							

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
31497										694	694	16	0	47.2116	DISSOLVED
32661										792205	792205	27816	0	2016.7006	DISSOLVED
35534										2474	2474	154	0	36.4299	DISSOLVED
35683										705	705	122	0	14.5585	DISSOLVED
35876	<0.250 U	<0.250 U	<0.250 U	1.47	<0.250 U	1.92	<0.010 U	<0.200 U	1.52	1115	1612	5	854	92.6615	DISSOLVED
35881	<0.250 U	1.44	<0.250 U	5.17	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1142	1463	609	518	2.54	DISSOLVED
35945	<0.250 U	<0.250 U	<0.250 U	2.00	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.40	1442	2240	14	1322	70.0748	DISSOLVED
35949	<0.250 U	<0.250 U	<0.250 U	1.47	<0.250 U	1.44	<0.010 U	<0.200 U	<1.000 U	1117	1612	5	856	89.991	DISSOLVED
36258	<0.500 U	2.210 J	<0.500 U	2.62	<0.500 U	<0.500 U	<0.050 U	<0.200 U	<1.000 U	2199	2585	1145	624	3.3687	DISSOLVED
36466	<0.500 U	3.07	<0.500 U	4.77	<0.500 U	<0.500 U	<0.010 U	<0.200 U	1.14	1771	2117	769	559	4.8179	DISSOLVED
36572	<0.500 U	<0.500 U	<0.500 U	2.270 J	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.16	1874	2299	24	717	61.8117	DISSOLVED
36693	<0.250 U	1.31	<0.250 U	7.54	<0.250 U	<0.250 U	<0.010 U	0.23	<1.000 U	1204	1468	789	426	1.4255	DISSOLVED
37249										1858	1858	121	0	27.9304	DISSOLVED
37319	<1.000 U	2.230 J	<1.000 U	<1.000 U	<1.000 U	2.810 J	<0.050 U	<0.200 U	1.56	2144	2649	138	851	27.5824	DISSOLVED
37875										2371	2371	628	0	12.5705	DISSOLVED
38021										1711	1711	380	0	11.0494	DISSOLVED
38568										550	550	6	0	82.853	DISSOLVED
38693	<1.000 U	3.190 J	<1.000 U	6.67	<1.000 U	<1.000 U	<0.050 U	<0.200 U	2.46	2315	2763	1248	725	3.9161	DISSOLVED
38701										2303	2303	372	0	18.458	DISSOLVED
38750	<0.500 U	<0.500 U	<0.500 U	3.35	<0.500 U	<0.500 U	<0.010 U	<0.200 U	1.31	1801	2653	14	1408	88.0523	DISSOLVED
38755	<0.250 U	<0.250 U	<0.250 U	1.91	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1304	1850	7	928	84.8672	DISSOLVED
39482	<0.500 U	1.740 J	<0.500 U	8.09	<0.500 U	<0.500 U	0.06	<0.200 U	1.35	1984	2357	403	602	11.6399	DISSOLVED
40257	<0.250 U	<0.250 U	<0.250 U	1.71	<0.250 U	0.730 J	<0.010 U	<0.200 U	1.02	1237	1835	3	1140	122.3097	DISSOLVED
40259	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	<0.200 U	<1.000 U	2583	3042	590	741	11.7701	DISSOLVED
40285										2574	2574	101	0	47.1831	DISSOLVED
40286										2551	2551	185	0	36.1488	DISSOLVED
40296	<0.250 U	1.110 J	<0.250 U	1.26	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1031	1406	566	605	2.8909	DISSOLVED
40297	<0.100 U	0.72	<0.100 U	1.77	<0.100 U	0.440 J	<0.010 U	<0.200 U	<1.000 U	534	640	260	171	2.1067	DISSOLVED
41327	<0.250 U	1.31	<0.250 U	9.78	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.95	902	1264	219	586	7.5808	DISSOLVED
41388										877	877	976	0	0.6825	DISSOLVED
42005										1773	1773	473	0	10.3062	DISSOLVED
42274										933	933	12	0	62.2373	DISSOLVED
42364	<0.500 U	<0.500 U	<0.500 U	3.30	<0.500 U	<0.500 U	<0.010 U	<0.200 U	2.11	1928	2379	142	729	24.0244	DISSOLVED
43095	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	<0.200 U	1.79	2171	2675	12	865	109.6989	DISSOLVED
44354	<0.250 U	<0.250 U	<0.250 U	2.96	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.14	973	1417	34	717	27.2866	DISSOLVED
44466	<0.250 U	0.540 J	<0.250 U	0.760 J	<0.250 U	<0.250 U	<0.010 U	0.26	2.51	1452	1909	633	737	4.5848	DISSOLVED
44473	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.010 U	0.21	<1.000 U	1642	2076	2	700	196.3533	DISSOLVED
45929	<0.100 U	0.450 J	<0.100 U	3.32	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	522	744	392	358	0.6814	DISSOLVED
46607										297	297	5	0	41.1114	DISSOLVED
46617										2411	2411	1533	0	2.4006	DISSOLVED
46940	<0.250 U	0.540 J	<0.250 U	3.23	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	643	884	510	390	0.4047	DISSOLVED
47553										1844	1844	676	0	10.1587	DISSOLVED
48280										2546	2546	1778	0	1.7646	DISSOLVED
79510	<0.250 U	<0.250 U	<0.250 U	1.45	<0.250 U	1.29	<0.010 U	<0.200 U	1.53	1423	1971	7	941	96.213	DISSOLVED
89179										2927	2927	1821	0	2.4878	DISSOLVED
89203										2252	2252	1327	0	2.9263	DISSOLVED

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
89440	48.7275	-112.3653	GLACIER	WELL		175	PRIVATE	9/15/15	1				PACE	7.68	2.43	793	1.78	ND
121101	47.8475	-104.7811	RICHLAND	WELL	125TGRV	90	MBMG	5/19/15	1	9.1	7.55	5669	MBMG	143.66	140.48	1141.84	8.81	2.673
121169	48.0042	-104.9583	RICHLAND	WELL	211FHHC	353	PRIVATE	8/21/14	1	13.2	8.9	1880	PACE	2.35	0.854	525	1.3	0
121774	47.7477	-104.4719	RICHLAND	WELL	125TGRV	540	MBMG	9/15/15	1	13.2	6.98	2282	MBMG	163.06	173.34	117.95	9.7	1.743
122380	48.2605	-112.3381	PONDERA	WELL		120	PRIVATE	4/25/16	1				PACE	2.37	0.542	292	0.904	<50.0
123789	46.3241	-104.2414	FALLON	WELL	211FXHL	150	MBMG	4/14/15	1	10.7	7.67	3091	MBMG	9.82	2.79	741.8	1.55	<0.075 U
124132	46.9343	-109.5438	FERGUS	WELL		108	PRIVATE	2/11/15	1				PACE	73.7	25.3	2.66	2.42	0.213
125231	48.7280	-106.0464	VALLEY	WELL		44	PRIVATE	11/10/15	1				PACE	24.7	12.3	85.4	2.24	0.791
125716	47.9694	-104.2200	RICHLAND	WELL	125FRUN	290	PRIVATE	3/1/16	2				PACE	16.4	9.49	610	3.33	0.161
128171	47.8789	-104.1178	RICHLAND	WELL	125TGRV	156	PRIVATE	8/20/14	1				PACE	56.4	50.1	258	7.15	0.916
128173	47.9630	-105.1086	RICHLAND	WELL	211HLCK	100	MBMG	7/19/16	1	10.4	7.58	3058	MBMG	59.36	28.79	527.13	4.07	0.437
130084	46.5627	-104.4241	FALLON	WELL	125FRUN	260	MBMG	10/6/15	1	12.7	8.48	3761	MBMG	7.24	1.25	911.85	1.600 J	<0.150 U
130345	47.6802	-105.0527	DAWSON	WELL	125TGRV	37	MBMG	6/14/16	1	11.1	7.17	4179	MBMG	353.83	196.97	403.61	7.55	1.957
130354	47.9078	-105.2091	MCCONE	WELL		38	PRIVATE	10/1/14	1				PACE	81.2	56.6	174	50.8	
134414	46.4099	-104.5501	FALLON	WELL	211FHHC	660	MBMG	10/6/15	1	14.5	9.15	1559	MBMG	1.24	0.32	380.56	0.84	<0.038 U
136651	47.7569	-104.1260	RICHLAND	WELL	110ALVM	18.7	MBMG	9/15/15	4	15	7.84	1185	MBMG	76.77	43.59	110.48	5.42	<0.038 U
137915	47.2376	-104.9126	DAWSON	WELL	125FRUN	200	PRIVATE	8/6/14	1				PACE	22	15.8	737	3.02	0.652
139756	46.3649	-104.1720	FALLON	WELL	211FXHL	100	MBMG	10/7/15	1	14.2	7.3	570.8	MBMG	35.96	20.24	50.71	3.93	<0.015 U
142083	47.8515	-104.2119	RICHLAND	WELL	112ALVM	40	MBMG	5/14/15	1	7.9	7.37	2474	MBMG	109.66	82.89	358.3	8.13	3.866
142679	47.6665	-104.1062	RICHLAND	WELL	211FHHC	1500	MBMG	5/20/15	1	20	8.9	1842	MBMG	1.37	0.34	447.31	1.21	<0.038 U
145248	46.4255	-104.2253	FALLON	WELL		100	MBMG	5/9/16	1	10.1	7.54	1477	MBMG	81.3	41.33	134.18	3.81	<0.038 U
150013	46.3557	-104.1747	FALLON	WELL	211FHHC	245	MBMG	10/7/15	1	11.6	7.34	2590	MBMG	108.96	45.79	420.95	6.38	0.503
150154	48.9482	-112.3051	GLACIER	WELL	211TMDC	125	PRIVATE	4/25/16	2				PACE	74.1	28.1	744	4.1	0.694
151342	47.7113	-104.1716	RICHLAND	WELL	110ALVM	116	MBMG	6/15/15	4	11.1	7.93	1350	MBMG	103.78	80.04	64.19	7.06	3.073
152494	48.1093	-104.5360	RICHLAND	WELL		315	PRIVATE	8/20/14	1				PACE	2.52	1.64	576	1.84	0.281
152601	47.8198	-104.7206	RICHLAND	WELL	125FRUN	300	MBMG	5/19/15	1	9.9	7.25	2445	MBMG	69.52	67.7	445	7.12	0.703
153570	47.7471	-104.4750	RICHLAND	WELL		478	MBMG	9/15/15	1	12	6.95	2436	MBMG	191.85	190.38	106.65	9.99	1.967
154904	48.5215	-104.5006	SHERIDAN	WELL	211FHHC	840	MBMG	9/14/15	2	16.5	8.49	3389	MBMG	4.06	0.88	804.52	1.91	<0.075 U
157676	48.5070	-104.4353	SHERIDAN	WELL	125FRUN	260	MBMG	7/8/15	1	10.2	8.03	3757	MBMG	14.2	10.04	875.17	5.09	0.252 J
159228	47.4281	-104.8948	DAWSON	WELL		75	MBMG	6/15/16	1	9.2	7.12	5783	MBMG	273.18	487.59	393.68	12.72	<0.150 U
162134	46.3879	-104.4567	FALLON	WELL		810	MBMG	10/6/15	1	15.2	9.21	1603	MBMG	1.49	0.27	390.95	0.83	<0.038 U
163340	47.8660	-104.6075	RICHLAND	WELL		200	PRIVATE	8/21/14	1				PACE	18.6	8.32	624	3.09	4.75
166666	48.3553	-104.2985	ROOSEVELT	WELL		260	PRIVATE	9/2/14	1				PACE	300	124	27.2	8.1	0.581
168148	48.0713	-112.0861	TETON	SPRING	110ALVM		PRIVATE	7/28/15	2				PACE	36.4	73.3	31.5	1.58	ND
177778	47.0339	-109.5023	FERGUS	WELL		380	PRIVATE	2/11/15	1				PACE	3.95	1.1	182	1.6	
180117	47.0775	-110.2229	JUDITH BASIN	WELL	217KOTN	65	TCCD	7/29/14	1	8.3	6.94	748	MBMG	99.75	45.01	12.48	3.34	<0.015 U
183854	46.3701	-104.1852	FALLON	WELL	211FXHL	40	MBMG	4/13/15	1	11.4	7.21	780	MBMG	49.63	23.66	92.89	3.85	<0.015 U
185569	47.9624	-104.7634	RICHLAND	WELL		80	MBMG	7/6/15	1	10.1	8.02	3442	MBMG	16.61	12.57	743.28	4.2	0.204 J
186354	47.0334	-104.8558	DAWSON	WELL	211HLCK	230	MBMG	6/15/15	1	13	7.83	483.6	MBMG	0.48	0.17	112.75	1.33	0.223
187641	47.0699	-110.1566	JUDITH BASIN	WELL	217KOTN	703	TCCD	7/30/14	1	8.7	6.91	821	MBMG	78.12	29.59	76.68	5.16	0.93
188806	46.9713	-109.4763	FERGUS	WELL	217KOTN	360	PRIVATE	2/11/15	1				PACE	237	140	4.67	9.83	0.31
191235	48.1972	-105.1044	ROOSEVELT	WELL		65	MBMG	8/18/15	1	19.1	7.59	9693	MBMG	237	235.72	1691.86	13.34	<0.150 U
194313	48.2652	-105.4401	ROOSEVELT	WELL		80	MBMG	7/20/16	1	9.8	7.56	765	MBMG	64.6	31.51	28.08	2.48	0.111
195335	48.1993	-104.2173	ROOSEVELT	WELL		392	MBMG	8/18/15	1	13.8	7.45	3282	MBMG	66.08	43.2	623.43	6.58	0.140 J
196628	46.4164	-104.5417	FALLON	WELL		440	MBMG	10/6/15	1	16.3	9.26	1454	MBMG	1.19	0.22	350.45	0.83	<0.038 U
196644	47.2294	-110.2219	JUDITH BASIN	WELL	110TRRC	60	TCCD	7/28/14	1	9	7.41	560	MBMG	83.03	27.64	9.07	1.81	<0.015 U
198435	47.1839	-104.8236	DAWSON	WELL		360	PRIVATE	8/5/14	1				PACE	1.11	0.317	392	0.8	
203025	47.8970	-104.2017	RICHLAND	WELL		150	PRIVATE	8/20/14	1				PACE	30.3	20.5	1090	5.57	0.174

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
89440	0.0052				1300	18.7		2.8						5.8	
121101	0.302 J	7.34	883.65	0	2634	8.01	<0.050 U	0.5	<0.100 U	<1.000 U	<20.000 U	<1.000 U	494.26	6.13	<1.000 U
121169	0.0046				157	76.5		3.7						68.1	
121774	0.033 J	16.01	737.65	0	800.7	3.89	0.050 J	0.06	<0.020 U	<0.250 U	<5.000 U	<0.250 U	471.5	11.55	<0.250 U
122380	0.0022				137	8.3		1.9						13.5	
123789	0.039 J	18.24	824.1	0	985.7	5.13	0.91	<0.050 U	<0.100 U	<0.500 U	<10.000 U	<0.500 U	187.06	5.19	<0.500 U
124132	4.7														
125231	0.0348				33.4	2.8		0.28						56.8	
125716	0.0184				961	8.8		2						6.6	
128171	0.0454				384	9.7		0.56						27.1	
128173	0.182 J	12.24	643.57	0	875	9.73	<0.050 U	0.43	<0.100 U	<0.500 U	<10.000 U	<0.500 U	342.07	13.06	<0.500 U
130084	<0.020 U	10.03	1459.84	22.83	676.3	11.57	<0.050 U	0.67	<0.100 U	<1.000 U	<20.000 U	<1.000 U	677.48	15.91	<1.000 U
130345	0.057 J	15.33	617.03	0	1946	15.53	0.42	0.28	<0.100 U	<1.000 U	<20.000 U	<1.000 U	172.21	19.25	<1.000 U
130354	0.419				575	29.3								37.3	
134414	<0.005 U	10.75	696.93	36.37	188.5	11.46	<0.010 U	1.72	0.17	<0.250 U	7.430 J	<0.250 U	459.8	55.41	<0.250 U
136651	<0.005 U	20.62	475.94	0	215.4	19.56	2.93	0.86	<0.020 U	<0.250 U	<5.000 U	0.840 J	182.06	29.25	<0.250 U
137915	0.0159				689	7.4		1						27.5	
139756	<0.002 U	24.34	214.76	0	70.75	11.71	8.76	1.12	0.100 J	<0.100 U	<2.000 U	1.5	19.01	18.26	<0.100 U
142083	0.193	15.18	708.71	0	804.6	10.65	<0.010 U	0.33	<0.020 U	<0.250 U	<5.000 U	4.32	411.82	11.19	<0.250 U
142679	<0.005 U	12.62	970.07	30.02	0.920 J	108.6	<0.010 U	4.62	0.14	<0.250 U	<5.000 U	0.590 J	1622.42	89.73	<0.250 U
145248	0.035 J	18.74	411.23	0	291.9	24.32	10.84	0.65	0.030 J	<0.250 U	<5.000 U	<0.250 U	29.69	15	<0.250 U
150013	0.399	22.02	465.48	0	979.2	10.38	<0.010 U	0.2	<0.020 U	<0.500 U	<10.000 U	<0.500 U	199.14	5.29	<0.500 U
150154	0.14				1010	11.8		0.65						5.8	
151342	0.257	20.69	425.16	0	354	34.67	0.25	0.16	<0.020 U	<0.250 U	<5.000 U	3.86	183.74	37.93	<0.250 U
152494	0.0121				229	15.8		3.9						48.2	
152601	0.044 J	10.41	977.62	0	662.6	4.99	<0.010 U	0.14	<0.020 U	<0.250 U	<5.000 U	<0.250 U	690.8	8.55	<0.250 U
153570	0.068 J	16.21	685.94	0	951.8	4.56	0.07	0.1	<0.020 U	<0.250 U	<5.000 U	<0.250 U	457.12	13.68	<0.250 U
154904	<0.010 U	10.66	1106.1	12.1	<2.500 U	594.3	<0.050 U	2.29	<0.100 U	<0.500 U	21.370 J	4.88	1718.77	205.88	<0.500 U
157676	<0.020 U	8.15	1381.59	0	863.8	22.23	<0.050 U	1.15	<0.100 U	<1.000 U	<20.000 U	<1.000 U	190.25	10.38	<1.000 U
159228	0.508	9.16	740.79	0	2665	29.4	14.76	0.26	<0.100 U	<1.000 U	<20.000 U	<1.000 U	80.48	8.69	<1.000 U
162134	<0.005 U	11.45	664.82	40.39	219	15.74	<0.010 U	0.82	0.14	<0.250 U	7.010 J	<0.250 U	302.12	40.64	<0.250 U
163340	0.118				773	14.9		2.1						31.3	
166666	1.53				760	13.4								29.2	
168148	ND				32	17		0.74						139	
177778	5.9														
180117	<0.002 U	11.67	358.52	0	183.1	5.83	0.51	0.33	0.020 J	<0.100 U	<2.000 U	<0.100 U	47.08	58.17	<0.100 U
183854	0.392	20.76	208.77	0	108.1	64.19	22.34	0.87	<0.020 U	<0.100 U	<2.000 U	1.01	48.99	47.49	<0.100 U
185569	0.018 J	7.74	1283.54	0	690.7	6.15	<0.050 U	0.79	<0.100 U	<0.500 U	<10.000 U	<0.500 U	438.85	8.09	<0.500 U
186354	0.017 J	18.47	290.08	0	16.05	1.76	<0.010 U	0.29	0.080 J	<0.100 U	<2.000 U	<0.100 U	102.31	23.35	<0.100 U
187641	0.061	5.89	302.73	0	258.2	2.28	<0.010 U	0.43	<0.020 U	<0.100 U	<2.000 U	<0.100 U	31.21	14.03	<0.100 U
188806	0.191														
191235	<0.020 U	18.16	662.35	0	1394	2495	23.34	0.61	<0.100 U	<1.000 U	40.050 J	7.34	1005.23	9.81	<1.000 U
194313	0.404	13.88	293.55	0	110.6	10.27	<0.010 U	0.21	<0.020 U	<0.100 U	<2.000 U	0.77	78.83	62.14	<0.100 U
195335	0.078 J	10.51	1374.24	0	638.2	3.28	<0.050 U	0.72	<0.100 U	<0.500 U	<10.000 U	1.110 J	301.62	6.14	<0.500 U
196628	<0.005 U	11.88	622.28	38.37	160.5	26.37	<0.010 U	0.85	0.17	<0.250 U	<5.000 U	<0.250 U	305.04	41.34	<0.250 U
196644	0.002 J	9.8	325.51	0	67.4	7.37	3.62	0.2	<0.020 U	<0.100 U	<2.000 U	0.340 J	25.48	84.03	<0.100 U
198435	0.0021					40		4.3						44	
203025	0.0305				1500	8.4		1.2							

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
89440	ND										ND		787				
121101	<50.000 U	<1.000 U	<1.000 U	3.460 J	<5.000 U	135.33	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	4885.11	243.2	<1.000 U	2.300 J	<1.000 U
121169	1100												109				
121774	<10.000 U	<0.250 U	0.630 J	0.680 J	<1.250 U	123.69	<0.250 U	1.35	<0.150 U	<0.250 U	<0.250 U	<0.250 U	6453.81	136.86	<0.250 U	<0.250 U	<0.250 U
122380	150										<0.50		90.7				
123789	<50.000 U	<0.500 U	<0.500 U	2.170 J	2.530 J	442.5	2.150 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	240.98	45.55	<0.500 U	1.650 J	<0.500 U
124132																	
125231	ND										ND		371				
125716	130										<0.50		410				
128171	92												1450				
128173	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	95.17	2.62	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1468.77	13.27	<0.500 U	0.640 J	<0.500 U
130084	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	77.090 J	3.730 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	236.9	28.99	<1.000 U	<1.000 U	<1.000 U
130345	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	34.010 J	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	3004.31	305.3	<1.000 U	12.87	<1.000 U
130354													1470				
134414	291	<0.250 U	<0.250 U	0.580 J	<1.250 U	23.180 J	4.05	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	47.71	7.44	<0.250 U	<0.250 U	<0.250 U
136651	149	<0.250 U	<0.250 U	<0.250 U	1.500 J	44.2	1.66	0.900 J	<0.150 U	0.280 J	1.89	<0.250 U	699.49	51.7	<0.250 U	15.40	<0.250 U
137915													584				
139756	<10.000 U	<0.100 U	<0.100 U	1.01	1.820 J	74.47	9.61	<0.100 U	<0.060 U	<0.100 U	3.5	<0.100 U	364.24	21.64	<0.100 U	3.30	1.06
142083	<10.000 U	<0.250 U	0.720 J	0.800 J	<1.250 U	92.5	<0.250 U	1.26	<0.150 U	<0.250 U	<0.250 U	<0.250 U	2268.67	116.68	<0.250 U	2.06	<0.250 U
142679	910	<0.250 U	<0.250 U	2.2	<1.250 U	57.49	<0.250 U	<0.250 U	<0.150 U	<0.250 U	1.28	<0.250 U	57.5	1.61	<0.250 U	<0.250 U	0.900 J
145248	73	<0.250 U	<0.250 U	<0.250 U	1.500 J	120.67	0.800 J	<0.250 U	<0.150 U	<0.250 U	5.44	<0.250 U	548.72	69.52	<0.250 U	50.01	<0.250 U
150013	104	<0.500 U	<0.500 U	<0.500 U	<2.500 U	284.32	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1215.69	99.1	<0.500 U	<0.500 U	<0.500 U
150154	260										<0.50		2310				
151342	110	<0.250 U	<0.250 U	<0.250 U	<1.250 U	33.76	2.45	1.110 J	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1373.93	97.39	<0.250 U	2.02	<0.250 U
152494	270												113				
152601	64	<0.250 U	<0.250 U	1.94	<1.250 U	86.09	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	3009.82	75.76	<0.250 U	<0.250 U	0.680 J
153570	272	<0.250 U	1.33	0.690 J	<1.250 U	122.78	<0.250 U	2.36	<0.150 U	<0.250 U	<0.250 U	<0.250 U	7378.22	176.81	<0.250 U	<0.250 U	<0.250 U
154904	5050	<0.500 U	<0.500 U	<0.500 U	<2.500 U	162.71	1.010 J	<0.500 U	<0.300 U	<0.500 U	2.55	<0.500 U	176.7	4.26	<0.500 U	<0.500 U	<0.500 U
157676	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	106.63	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	616.42	37.58	<1.000 U	<1.000 U	<1.000 U
159228	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	244.55	<1.000 U	<1.000 U	<0.600 U	<1.000 U	11.57	<1.000 U	8773.84	304.11	<1.000 U	27.39	<1.000 U
162134	269	<0.250 U	<0.250 U	0.690 J	<1.250 U	24.600 J	1.98	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	44.79	9.96	<0.250 U	<0.250 U	<0.250 U
163340	280												272				
166666											4.4		2020				
168148	ND										4		665				
177778	58																
180117	<10.000 U	<0.100 U	0.240 J	<0.100 U	5.07	44.7	2.75	0.420 J	0.220 J	<0.100 U	1.11	<0.100 U	1416.44	73.92	<0.100 U	5.25	0.450 J
183854	150	<0.100 U	0.290 J	0.58	0.880 J	96.37	5.46	5.01	1.47	<0.100 U	0.96	<0.100 U	388.13	41.8	<0.100 U	3.53	0.250 J
185569	<50.000 U	<0.500 U	<0.500 U	1.150 J	<2.500 U	99.75	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	832.7	36.39	<0.500 U	<0.500 U	<0.500 U
186354	<10.000 U	<0.100 U	<0.100 U	<0.100 U	<0.500 U	124.86	3.04	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	19.37	1.06	<0.100 U	<0.100 U	<0.100 U
187641	<10.000 U	<0.100 U	0.280 J	<0.100 U	<0.500 U	98.48	0.450 J	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	821.79	69.37	<0.100 U	0.380 J	<0.100 U
188806																	
191235	796	<1.000 U	<1.000 U	<1.000 U	<5.000 U	421.08	2.770 J	<1.000 U	<0.600 U	<1.000 U	273.19	<1.000 U	3705.12	218.01	<1.000 U	13.03	<1.000 U
194313	88	<0.100 U	<0.100 U	<0.100 U	<0.500 U	31.81	1.09	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	507.46	2.96	<0.100 U	1.02	<0.100 U
195335	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	126.53	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1635.1	78.78	<0.500 U	<0.500 U	<0.500 U
196628	379	<0.250 U	<0.250 U	<0.250 U	<1.250 U	22.870 J	2.82	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	37.64	6.51	<0.250 U	<0.250 U	<0.250 U
196644	<10.000 U	<0.100 U	0.210 J	<0.100 U	3.61	8.390 J	2.5	<0.100 U	<0.060 U	<0.100 U	0.84	<0.100 U	729.6	61	<0.100 U	4.53	0.340 J
198435	450												44.2				
203025													940				

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
89440							
121101	40.96	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
121169							
121774	71.18	<0.250 U	<0.250 U	<0.250 U	0.780 J	<0.250 U	<0.250 U
122380							
123789	18.36	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
124132							
125231							
125716							
128171							
128173	5.690 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
130084	14.170 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
130345	13.180 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
130354							
134414	<1.250 U	<0.250 U	<0.250 U	<0.250 U	2.37	<0.250 U	<0.250 U
136651	<1.250 U	<0.250 U	<0.250 U	<0.250 U	2.18	<0.250 U	<0.250 U
137915							
139756	13.24	<0.100 U	<0.100 U	<0.100 U	0.83	<0.100 U	<0.100 U
142083	4.240 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
142679	9.78	<0.250 U	<0.250 U	<0.250 U	3.51	<0.250 U	<0.250 U
145248	50.83	<0.250 U	<0.250 U	<0.250 U	0.550 J	<0.250 U	<0.250 U
150013	23.55	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
150154							
151342	<1.250 U	<0.250 U	<0.250 U	<0.250 U	1.55	<0.250 U	<0.250 U
152494							
152601	1.880 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
153570	25.04	<0.250 U	<0.250 U	<0.250 U	0.940 J	<0.250 U	<0.250 U
154904	<2.500 U	<0.500 U	<0.500 U	<0.500 U	16.34	<0.500 U	<0.500 U
157676	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
159228	5.360 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
162134	<1.250 U	<0.250 U	<0.250 U	<0.250 U	1.78	<0.250 U	<0.250 U
163340							
166666							
168148							
177778							
180117	23.58	<0.100 U	<0.100 U	<0.100 U	2.59	<0.100 U	<0.100 U
183854	91.16	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U
185569	6.850 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
186354	2.22	<0.100 U	<0.100 U	<0.100 U	1.01	<0.100 U	<0.100 U
187641	0.520 J	<0.100 U	<0.100 U	<0.100 U	0.61	<0.100 U	<0.100 U
188806							
191235	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
194313	23.33	<0.100 U	<0.100 U	<0.100 U	2.55	<0.100 U	<0.100 U
195335	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
196628	<1.250 U	<0.250 U	0.560 J	<0.250 U	1.63	<0.250 U	<0.250 U
196644	7.08	<0.100 U	<0.100 U	<0.100 U	3.88	<0.100 U	<0.100 U
198435							
203025							

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
89440										2127	2127	29	0	63.8807	DISSOLVED
121101	<1.000 U	3.790 J	<1.000 U	5.41	<1.000 U	<1.000 U	<0.050 U	<0.200 U	2.61	4524	4972	937	725	16.2336	DISSOLVED
121169										767	767	9	0	74.5789	DISSOLVED
121774	<0.250 U	7.11	<0.250 U	11.10	<0.250 U	<0.250 U	<0.010 U	<0.200 U	2.85	1651	2025	1121	605	1.5337	DISSOLVED
122380										443	443	8	0	44.5117	DISSOLVED
123789	<0.500 U	<0.500 U	<0.500 U	2.80	<0.500 U	<0.500 U	0.190 J	0.88	1.86	2173	2591	36	676	53.8097	DISSOLVED
124132										109	109	288	0	0.0769	DISSOLVED
125231										161	161	112	0	3.4902	DISSOLVED
125716										1611	1611	80	0	29.6736	DISSOLVED
128171										768	768	347	0	6.0261	DISSOLVED
128173	<0.500 U	<0.500 U	<0.500 U	3.86	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.59	1833	2160	267	528	14.0411	DISSOLVED
130084	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	<0.200 U	1.65	2362	3102	23	1236	82.3522	DISSOLVED
130345	<1.000 U	2.010 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	0.32	1.41	3246	3559	1694	506	4.2708	DISSOLVED
130354										967	967	436	0	3.6271	DISSOLVED
134414	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	2.22	<0.010 U	<0.200 U	<1.000 U	976	1330	4	632	78.9175	DISSOLVED
136651	<0.250 U	0.650 J	<0.250 U	5.21	<0.250 U	<0.250 U	<0.010 U	2.39	3.14	730	971	371	390	2.4846	DISSOLVED
137915										1476	1476	120	0	29.2785	DISSOLVED
139756	<0.100 U	0.340 J	<0.100 U	0.92	<0.100 U	<0.100 U	<0.010 U	6.73	7.09	334	443	173	176	1.6867	DISSOLVED
142083	<0.250 U	1.94	<0.250 U	2.75	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.66	1743	2103	615	582	6.2814	DISSOLVED
142679	<0.250 U	<0.250 U	<0.250 U	1.53	<0.250 U	2.13	<0.010 U	<0.200 U	<1.000 U	1085	1577	5	846	88.5941	DISSOLVED
145248	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	0.040 J	8.96	9.32	810	1019	373	337	3.0186	DISSOLVED
150013	<0.500 U	1.020 J	<0.500 U	4.84	<0.500 U	<0.500 U	0.06	<0.200 U	1.48	1823	2059	461	381	8.5363	DISSOLVED
150154										1874	1874	301	0	18.6699	DISSOLVED
151342	<0.250 U	1.61	<0.250 U	5.77	<0.250 U	<0.250 U	<0.010 U	0.38	<1.000 U	877	1093	589	349	1.1479	DISSOLVED
152494										831	831	13	0	69.399	DISSOLVED
152601	<0.250 U	2.36	<0.250 U	5.35	<0.250 U	<0.250 U	<0.010 U	<0.200 U	2.35	1750	2246	452	802	9.105	DISSOLVED
153570	<0.250 U	8.29	<0.250 U	11.22	<0.250 U	<0.250 U	0.06	<0.200 U	2.19	1812	2160	1263	563	1.3102	DISSOLVED
154904	<0.500 U	<0.500 U	<0.500 U	3.58	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.23	1976	2537	14	927	94.4336	DISSOLVED
157676	<1.000 U	<1.000 U	<1.000 U	5.68	<1.000 U	<1.000 U	<0.050 U	<0.200 U	1.85	2480	3181	77	1133	43.4501	DISSOLVED
159228	<1.000 U	5.37	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	12.90	14.80	4252	4628	2689	608	3.3059	DISSOLVED
162134	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	1.040 J	<0.010 U	<0.200 U	<1.000 U	1008	1346	5	612	77.4037	DISSOLVED
163340										1449	1449	81	0	30.2273	DISSOLVED
166666										1235	1235	1259	0	0.331	DISSOLVED
168148										194	194	393	0	0.7027	DISSOLVED
177778										195	195	14	0	20.8768	DISSOLVED
180117	<0.100 U	1.26	<0.100 U	1.92	<0.100 U	<0.100 U	<0.010 U	0.57	<1.000 U	539	721	434	294	0.2505	DISSOLVED
183854	<0.100 U	0.370 J	<0.100 U	3.04	<0.100 U	<0.100 U	<0.010 U	18.50	19.30	489	595	221	171	2.7202	DISSOLVED
185569	<0.500 U	<0.500 U	<0.500 U	4.25	<0.500 U	<0.500 U	<0.050 U	<0.200 U	2.04	2115	2766	93	1053	33.4858	DISSOLVED
186354	<0.100 U	<0.100 U	<0.100 U	0.86	<0.100 U	<0.100 U	<0.010 U	<0.200 U	1.56	294	441	2	238	35.6884	DISSOLVED
187641	<0.100 U	0.77	<0.100 U	6.05	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	606	760	317	249	1.8823	DISSOLVED
188806										392	392	1168	0	0.0637	DISSOLVED
191235	<1.000 U	3.650 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	11.90	18.60	6435	6771	1562	543	18.6278	DISSOLVED
194313	<0.100 U	0.300 J	<0.100 U	1.69	<0.100 U	<0.100 U	<0.010 U	<0.200 U	1.03	406	555	291	241	0.7142	DISSOLVED
195335	<0.500 U	1.250 J	<0.500 U	4.73	<0.500 U	<0.500 U	<0.050 U	<0.200 U	<1.000 U	2069	2766	343	1127	14.6411	DISSOLVED
196628	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	1.000 J	<0.010 U	<0.200 U	<1.000 U	897	1212	4	574	77.3507	DISSOLVED
196644	<0.100 U	0.72	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.010 U	3.05	3.55	370	536	321	267	0.2186	DISSOLVED
198435										438	438	4	0	84.4848	DISSOLVED
203025										2656	2656	160	0	37.4912	DISSOLVED

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
203971	48.4056	-105.1460	ROOSEVELT	WELL		120	MBMG	7/20/16	1	12.9	8.08	2048	MBMG	17.13	10.72	405.11	2.34	0.221
204658	46.3423	-104.2719	FALLON	WELL		550	MBMG	10/8/15	1	13.2	8.64	1713	MBMG	1.8	0.53	416.26	0.88	<0.038 U
206201	48.3469	-104.2857	ROOSEVELT	WELL		102	MBMG	8/4/15	1	9.5	7.35	2120	MBMG	236.7	133.52	65.11	11.82	<0.038 U
206406	48.3382	-104.5407	ROOSEVELT	WELL	125FRUN	105	MBMG	8/20/15	2	9.8	7.33	2542	MBMG	144.88	76.71	343.66	6.06	3.617
206533	48.7805	-104.0634	SHERIDAN	WELL	112OTSH	80	MBMG	9/20/16	2	8.6	7.14	2533	MBMG	81.21	44.75	380.02	9.24	4.742
206546	48.7515	-104.0779	SHERIDAN	WELL	112OTSH	120	MBMG	9/20/16	4	9.7	6.95	2484	MBMG	136.22	67.1	287.05	7.27	6.747
215220	48.6936	-104.1213	SHERIDAN	WELL	112OTSH	140	MBMG	9/20/16	1	9.2	7.2	1875	MBMG	72.87	39.96	252.16	6.06	1.834
215223	48.6791	-104.0994	SHERIDAN	WELL	112OTSH	140	MBMG	9/20/16	1	8.8	7.16	1301	MBMG	98.92	41.41	157.93	5.06	0.583
217571	47.6339	-104.2261	RICHLAND	WELL			PRIVATE	8/21/14	1	10.78	7.7	736	PACE	64.8	28.3	57.2	5.47	3.92
217829	47.1976	-104.9999	DAWSON	WELL		40	MBMG	5/11/16	1	9.9	6.32	2025	MBMG	179.84	116.71	44.33	4.55	8.45
221112	46.2393	-104.2545	FALLON	WELL		260	MBMG	5/9/16	1	10.9	9.02	2003	MBMG	1.88	0.33	398.53	0.87	<0.038 U
221574	48.9876	-104.1044	SHERIDAN	WELL	112TILL	28	MBMG	8/5/15	2	17.2	7	36111	MBMG	1199.65	931.73	6079.43	89.01	7.548
221597	48.6212	-104.1217	SHERIDAN	WELL	112OTSH	128	MBMG	9/20/16	2	9.7	7.21	1376	MBMG	81.58	38.94	134.93	4.89	3.518
221602	48.6214	-104.1512	SHERIDAN	WELL	112OTSH	108	MBMG	9/20/16	2	8.8	7.46	886	MBMG	75.87	29.4	50.94	4.12	1.642
221649	48.4907	-104.4103	SHERIDAN	WELL	112OTSH	168	MBMG	9/19/16	3	11.1	7.18	3108	MBMG	142.33	92.08	384.88	6.71	5.606
221651	48.4906	-104.4104	SHERIDAN	WELL	112ALVM	248	MBMG	9/19/16	3	10.5	7.66	2870	MBMG	34	23.5	558.68	5.01	2.004
221691	48.5262	-104.2575	SHERIDAN	WELL	112OTSH	38	MBMG	8/19/15	2	10.7	6.84	45656	MBMG	4044.98	730.84	14082.79	399.1	51.278
221722	48.9547	-104.1878	SHERIDAN	WELL	112TILL	28	MBMG	8/5/15	2	12.5	6.91	67856	MBMG	1347.09	2360.64	13762.56	99.59	2.117 J
222411	46.8835	-104.7005	DAWSON	WELL		236	MBMG	7/8/15	1	9.9	9.01	1989	MBMG	1.82	0.8	432.47	1.73	<0.038 U
223034	47.3097	-104.9149	DAWSON	WELL		460	MBMG	6/14/16	1	12.9	8.48	3491	MBMG	3.82	2.55	767.13	2.07	<0.075 U
223592	47.0736	-109.5065	FERGUS	WELL		380	PRIVATE	2/12/15	1	9.57	7.62	750	PACE	2.24	0.64	196	1.24	
223679	47.9976	-104.4181	RICHLAND	WELL		245	MBMG	7/19/16	1	10.8	8.03	5801	MBMG	19.79	13.92	1155.04	3.96	<0.150 U
227360	46.2616	-104.2540	FALLON	WELL		520	MBMG	5/10/16	1	11.5	8.88	2225	MBMG	2.42	0.51	431.95	0.96	<0.038 U
230563	48.2806	-105.1779	ROOSEVELT	WELL		47	MBMG	8/31/15	1	9.5	6.34	10329	MBMG	433.33	440.96	1902.12	18.01	<0.750 U
231796	47.0187	-104.8290	DAWSON	WELL	211HLCK	58	MBMG	5/18/15	1	11.7	7.28	3663	MBMG	258.99	134.69	324.66	8.57	<0.150 U
236187	47.8749	-104.6229	RICHLAND	WELL	125FRUN	300	MBMG	6/16/15	1	11.4	8.7	2596	MBMG	3.31	2.5	594.27	1.74	<0.075 U
237042	46.3713	-104.1787	FALLON	WELL	211FXHL	105	MBMG	4/14/15	1	9.1	7.2	958	MBMG	57.88	31.2	119.61	3.47	0.299
238253	47.7483	-104.7196	RICHLAND	WELL	125FRUN	390	MBMG	5/19/15	1	12.3	8.66	2388	MBMG	3.27	2.32	559.66	1.73	0.099 J
239610	48.1721	-104.2416	ROOSEVELT	WELL	112ALVM	177	MBMG	8/31/15	2	10.4	7.33	2672	MBMG	84.25	35.65	509.25	5.43	1.941
239702	47.6307	-104.2498	RICHLAND	WELL	112SNGR	107	MBMG	9/15/15	2	11.9	7.45	946	MBMG	98	44.08	36.67	4.96	3.498
242663	47.7719	-104.6431	RICHLAND	WELL		250	MBMG	8/22/16	1	12.7	8.44	3403	MBMG	5.43	3.7	638.09	2.11	<0.075 U
246773	46.8374	-104.6858	PRAIRIE	WELL		103	MBMG	5/12/16	1	11.3	8.82	3176	MBMG	3.74	0.91	611.38	1.46	<0.075 U
247437	47.9531	-105.1109	RICHLAND	WELL		201	MBMG	8/22/16	1	12	8.32	3767	MBMG	5.42	2.09	776.36	2.210 J	<0.150 U
247510	48.8729	-113.3654	GLACIER	WELL		200	PRIVATE	9/14/15	1				PACE	38.4	24.3	56	3.73	40.4
248655	47.1722	-110.2000	JUDITH BASIN	WELL	211CLRD	100	TCCD	7/28/14	1	9.1	8.58	554	MBMG	2.76	0.84	136.56	0.64	<0.015 U
249699	48.2900	-104.1786	ROOSEVELT	WELL	125FRUN	360	MBMG	6/17/15	4	10.5	8.28	2179	MBMG	10.22	7.89	515.37	3.71	0.043 J
249758	47.3114	-105.0217	DAWSON	WELL		205	PRIVATE	8/6/14	1				PACE	2.74	1.63	468	1.39	0.558
250390	47.2262	-104.8947	DAWSON	WELL	211FHHC	700	PRIVATE	8/6/14	1				PACE	12.9	9.22	579	2.63	0.156
251722	48.4062	-105.0843	ROOSEVELT	WELL		72	MBMG	7/20/16	1	10.5	7.61	2254	MBMG	27.01	16.31	423.75	3.95	0.285
251847	48.1596	-104.8554	ROOSEVELT	WELL		230	PRIVATE	9/4/14	1				PACE	2.26	0.862	532	1.53	1.39
252031	47.6107	-105.5669	MCCONE	WELL		102	PRIVATE	10/13/14	1				PACE	121	86.5	640	6.3	0
252906	48.6395	-104.1838	SHERIDAN	WELL	112ALVM	130	PRIVATE	9/30/14	1				PACE	122	57	27.4	4.86	0.544
255044	48.5295	-104.4095	SHERIDAN	WELL	112OTSH	444	PRIVATE	9/30/14	1				PACE	9	6.28	1040	4.23	0.191
257488	48.0704	-105.2444	MCCONE	WELL		85	PRIVATE	10/14/14	1	9.77	7.32	3220	PACE	125	60.4	588	6.08	6.22
257754	47.0692	-109.5802	FERGUS	WELL		60	PRIVATE	2/24/15	1				PACE	90.6	25.6	32.1	2.36	
261518	48.1036	-104.6479	RICHLAND	WELL		195	PRIVATE	8/7/14	1				PACE	5.88	3.39	672	2.26	1.07
262046	48.1991	-104.6506	ROOSEVELT	WELL	125FRUN		MBMG	9/15/15	2	12.7	8.16	1200	MBMG	109.44	50.59	136.11	5.47	<0.038 U
262050	48.2489	-104.3448	ROOSEVELT	WELL	125FRUN		MBMG	9/2/15	2	9.5	7.2	3744	MBMG	99.25	96.02	681.99	8.99	1.874

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
203971	0.015 J	9.12	839.58	0	263.4	18.51	<0.010 U	2.79	0.100 J	<0.250 U	<5.000 U	<0.250 U	1783.9	12.62	<0.250 U
204658	0.012 J	15.59	656.02	14.67	352.5	5.13	<0.010 U	0.33	0.090 J	<0.250 U	<5.000 U	<0.250 U	95.86	39.37	<0.250 U
206201	<0.005 U	29.87	406.38	0	873.2	28.01	14.17	0.25	0.030 J	<0.250 U	<5.000 U	2.77	97.21	14.46	<0.250 U
206406	3.529	25.28	852.6	0	770.3	9.35	0.050 J	0.53	<0.020 U	<0.500 U	<10.000 U	26.63	259.74	17.14	<0.500 U
206533	0.247 J	28.72	790.34	0	529.6	13.23	<0.010 U	0.16	<0.020 U	<0.500 U	<10.000 U	6.08	589.87	32.86	<0.500 U
206546	0.075 J	30.97	806.09	0	592.7	10.01	<0.010 U	0.19	<0.020 U	<0.250 U	<5.000 U	15.05	428.13	14.86	<0.250 U
215220	0.117 J	25.77	839.55	0	258.4	4.16	<0.010 U	0.16	<0.020 U	<0.250 U	<5.000 U	4.33	513.42	19.41	<0.250 U
215223	0.196	25.75	587.47	0	314.9	8.67	<0.010 U	0.2	<0.020 U	<0.250 U	<5.000 U	5.12	249.21	11.18	<0.250 U
217571	0.206				101	5.3		0.43						54.7	
217829	0.629	12.4	613.09	0	572.8	3.4	<0.010 U	0.15	<0.020 U	<0.250 U	14.690 J	49.59	401.17	21.11	<0.250 U
221112	<0.005 U	10.87	767.97	39.91	254.5	2.24	<0.010 U	0.55	0.090 J	<0.250 U	<5.000 U	<0.250 U	310.95	29.22	<0.250 U
221574	3.913	13.25	642.23	0	2732	12984	<1.000 U	<1.000 U	<2.000 U	<5.000 U	<100.000 U	17.310 J	14853.7	29.15	<5.000 U
221597	0.161	25.98	675.8	0	136.3	5.29	<0.010 U	0.35	<0.020 U	<0.250 U	<5.000 U	8.26	257.42	85.9	<0.250 U
221602	0.245	24.34	377.18	0	112.3	11.42	<0.010 U	0.14	<0.020 U	<0.100 U	<2.000 U	7.34	101.55	45.08	<0.100 U
221649	0.122 J	27.6	1260.71	0	603	15.5	<0.050 U	0.53	<0.100 U	<0.500 U	<10.000 U	18.06	176.77	28.98	<0.500 U
221651	0.039 J	21.4	1683.35	0	46.3	59.93	<0.010 U	1.71	<0.020 U	<0.500 U	<10.000 U	11.83	203.22	136.65	<0.500 U
221691	53.845	17.4	589.92	0	<50.000 U	33772	<1.000 U	49.7	<2.000 U	<5.000 U	<100.000 U	127.13	33940.26	37794.12	<5.000 U
221722	1.374 J	23.43	502.48	0	5136	26453	219.5	<1.000 U	<2.000 U	<5.000 U	<100.000 U	42.79	34611.35	48.82	<5.000 U
222411	0.007 J	7.21	700.97	21.27	294.7	31.72	<0.010 U	3.03	0.11	<0.250 U	<5.000 U	<0.250 U	603.18	23.86	<0.250 U
223034	<0.010 U	7.79	1606.2	6.13	340.8	36.38	<0.010 U	1.74	0.15	<0.500 U	<10.000 U	<0.500 U	98.26	43.4	<0.500 U
223592	5.5														
223679	0.031 J	7.39	1112.3	0	1761	6.83	<0.050 U	0.52	<0.100 U	<1.000 U	<20.000 U	<1.000 U	375.76	14.62	<1.000 U
227360	0.006 J	11.2	822.18	29.81	322.8	3.13	<0.010 U	0.16	0.050 J	<0.250 U	<5.000 U	<0.250 U	163.74	44.12	<0.250 U
230563	4.784	34.63	335.16	0	6064	56.02	62.12	1.14	<0.100 U	<5.000 U	<100.000 U	<5.000 U	1691.64	19.170 J	<5.000 U
231796	0.107 J	19.17	477.31	0	524.1	713.3	13.53	0.65	<0.100 U	<1.000 U	<20.000 U	2.830 J	395.82	48.71	<1.000 U
236187	<0.010 U	7.65	867.98	18.71	571.8	17	<0.010 U	3.96	0.11	<0.500 U	<10.000 U	<0.500 U	167.85	12.53	<0.500 U
237042	0.376	20.23	223.35	0	339.7	12.07	2.76	0.77	<0.020 U	<0.100 U	<2.000 U	0.62	67.67	17.22	<0.100 U
238253	0.034 J	6.6	804.32	10.84	569.4	12.81	<0.010 U	3.1	0.13	<0.250 U	<5.000 U	<0.250 U	168.16	18.51	<0.250 U
239610	0.030 J	24.97	825.02	0	811.5	8.95	0.07	1.54	<0.020 U	<0.500 U	<10.000 U	4.06	198.93	12.46	<0.500 U
239702	0.291	29.99	391.9	0	188.3	12.16	<0.010 U	0.33	<0.020 U	<0.100 U	<2.000 U	1.21	110.6	59.43	<0.100 U
242663	0.012 J	6.52	747.07	12.14	635.7	38.71	<0.050 U	2.83	0.170 J	<0.500 U	<10.000 U	<0.500 U	240.2	10.39	<0.500 U
246773	<0.010 U	10.47	1069.67	39.29	444.9	9.47	0.150 J	0.3	<0.100 U	<0.500 U	<10.000 U	<0.500 U	239.62	30.52	<0.500 U
247437	<0.020 U	7.41	1362.1	17.3	440.6	17.63	<0.050 U	1.01	<0.100 U	<1.000 U	<20.000 U	<1.000 U	706.62	16.61	<1.000 U
247510	0.235				2.9	ND		0.14						902	
248655	0.004 J	16.46	278.07	8.61	82.25	4.88	0.07	0.3	<0.020 U	<0.100 U	<2.000 U	1.29	169.83	16.25	<0.100 U
249699	0.017 J	11.22	972.39	3.73	405.9	3.87	<0.010 U	0.67	0.080 J	<0.250 U	<5.000 U	<0.250 U	484.28	15.22	<0.250 U
249758	0.0113				253	5.8		3.8						19	
250390	0.0095				655	5.8		0.82						14	
251722	0.048 J	9.77	887.91	0	333	11.4	0.06	0.46	0.020 J	<0.250 U	<5.000 U	<0.250 U	994.73	12.46	<0.250 U
251847	0.0169					131		3.5						162	
252031	0.0054				840	6.5								11.1	
252906	0.504				117	2.2		0.18						39.6	
255044	0.0105				692	22.4		1.9						29.2	
257488	0.521				949	35.4		0.73						14.4	
257754	0.002														
261518	0.0134				942	16.1		1.7						11.1	
262046	0.030 J	20.3	457.75	0	408.4	7.22	2.07	0.19	<0.020 U	<0.250 U	<5.000 U	<0.250 U	140.33	24.7	<0.250 U
262050	0.042 J	8.65	1245.01	0	1021	9.7	<0.050 U	0.56	<0.100 U	<1.000 U	<20.000 U	<1.000 U	359.29	6.83	<1.000 U

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
203971	204	<0.250 U	<0.250 U	<0.250 U	<1.250 U	79.95	4.12	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	449.64	4.45	<0.250 U	<0.250 U	<0.250 U
204658	<10.000 U	<0.250 U	<0.250 U	0.600 J	<1.250 U	38.66	0.940 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	58.71	11.66	<0.250 U	<0.250 U	<0.250 U
206201	<10.000 U	<0.250 U	<0.250 U	<0.250 U	1.320 J	147.61	5.7	<0.250 U	<0.150 U	<0.250 U	102.19	<0.250 U	1093.17	204.45	<0.250 U	19.98	<0.250 U
206406	216	<0.500 U	<0.500 U	<0.500 U	<2.500 U	68.67	5.58	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1280.04	118.97	<0.500 U	3.60	<0.500 U
206533	240	<0.500 U	<0.500 U	<0.500 U	<2.500 U	76.23	2.88	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1166.59	10.3	<0.500 U	1.770 J	<0.500 U
206546	205	<0.250 U	<0.250 U	<0.250 U	<1.250 U	84.07	3.07	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1256.82	8.95	<0.250 U	1.000 J	<0.250 U
215220	80	<0.250 U	<0.250 U	0.510 J	<1.250 U	68.22	0.800 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1384.95	3.76	<0.250 U	<0.250 U	<0.250 U
215223	164	<0.250 U	<0.250 U	<0.250 U	<1.250 U	44.78	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	814.8	4.71	<0.250 U	<0.250 U	<0.250 U
217571													748				
217829	<10.000 U	<0.250 U	0.660 J	<0.250 U	<1.250 U	31.63	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	2904.23	148.57	<0.250 U	0.750 J	<0.250 U
221112	<10.000 U	<0.250 U	<0.250 U	<0.250 U	<1.250 U	23.190 J	1.81	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	46.28	35.4	<0.250 U	<0.250 U	<0.250 U
221574	18850	<5.000 U	14.350 J	<5.000 U	<25.000 U	1698.75	11.310 J	34.63	<3.000 U	<5.000 U	51.71	<5.000 U	12696.3	915.4	<5.000 U	123.46	<5.000 U
221597	136	<0.250 U	3.57	<0.250 U	<1.250 U	45.08	2.21	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	850.13	2.07	<0.250 U	0.560 J	<0.250 U
221602	83	<0.100 U	<0.100 U	<0.100 U	<0.500 U	17.23	2.18	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	476.08	1.59	<0.100 U	0.61	<0.100 U
221649	468	<0.500 U	2.050 J	<0.500 U	<2.500 U	39.230 J	2.190 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1497.46	9.41	<0.500 U	1.470 J	<0.500 U
221651	747	<0.500 U	<0.500 U	1.750 J	<2.500 U	30.320 J	20.89	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	621.94	1.090 J	<0.500 U	2.450 J	<0.500 U
221691	117200	<5.000 U	14.760 J	<5.000 U	<25.000 U	6482.66	<5.000 U	<5.000 U	<3.000 U	<5.000 U	153	<5.000 U	163346.57	2892.07	<5.000 U	<5.000 U	<5.000 U
221722	45550	<5.000 U	<5.000 U	<5.000 U	<25.000 U	7945.98	<5.000 U	16.320 J	<3.000 U	<5.000 U	180.8	<5.000 U	28920.49	1088.06	<5.000 U	220.13	<5.000 U
222411	480	<0.250 U	<0.250 U	0.650 J	<1.250 U	42.88	6.77	<0.250 U	<0.150 U	<0.250 U	1.190 J	<0.250 U	77.59	12.04	<0.250 U	<0.250 U	<0.250 U
223034	337	<0.500 U	<0.500 U	1.580 J	<2.500 U	47.270 J	1.350 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	215.23	11.75	<0.500 U	<0.500 U	<0.500 U
223592																	
223679	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	73.620 J	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	810.02	31.29	<1.000 U	<1.000 U	<1.000 U
227360	<10.000 U	<0.250 U	<0.250 U	<0.250 U	<1.250 U	46.8	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	67.1	13.09	<0.250 U	<0.250 U	<0.250 U
230563	2690	<5.000 U	41.9	<5.000 U	<25.000 U	1664.51	<5.000 U	156.31	<3.000 U	<5.000 U	134.09	<5.000 U	7151.48	568.52	<5.000 U	<5.000 U	<5.000 U
231796	2060	<1.000 U	<1.000 U	<1.000 U	<5.000 U	144.16	<1.000 U	<1.000 U	<0.600 U	<1.000 U	26.34	<1.000 U	2453.29	219.38	<1.000 U	24.00	<1.000 U
236187	267	<0.500 U	<0.500 U	<0.500 U	<2.500 U	34.830 J	3.41	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	181.19	41.45	<0.500 U	<0.500 U	<0.500 U
237042	76	<0.100 U	0.210 J	0.75	0.570 J	151.63	2.17	0.59	0.31	<0.100 U	2.22	<0.100 U	450.3	61.81	<0.100 U	0.55	0.300 J
238253	208	<0.250 U	<0.250 U	1.35	<1.250 U	32.28	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	161.72	25.07	<0.250 U	<0.250 U	0.510 J
239610	181	<0.500 U	<0.500 U	<0.500 U	<2.500 U	51.83	7.86	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	985.43	85.51	<0.500 U	1.390 J	<0.500 U
239702	197	<0.100 U	0.62	0.260 J	<0.500 U	28.6	1.88	0.88	<0.060 U	<0.100 U	0.410 J	<0.100 U	1195.59	68.59	<0.100 U	0.480 J	0.220 J
242663	499	<0.500 U	<0.500 U	<0.500 U	<2.500 U	38.060 J	3.47	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	265.31	16.77	<0.500 U	<0.500 U	<0.500 U
246773	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	46.020 J	4.31	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	152.28	15.11	<0.500 U	<0.500 U	<0.500 U
247437	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	91.690 J	4.090 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	254.33	11.99	<1.000 U	<1.000 U	<1.000 U
247510	ND										1.1		1410				
248655	71	<0.100 U	<0.100 U	<0.100 U	1.070 J	33.8	5.92	<0.100 U	<0.060 U	0.270 J	<0.100 U	<0.100 U	40.53	4.61	<0.100 U	1.04	<0.100 U
249699	61	<0.250 U	<0.250 U	<0.250 U	<1.250 U	63.39	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	244.89	29.17	<0.250 U	1.000 J	<0.250 U
249758													102				
250390													443				
251722	147	<0.250 U	<0.250 U	<0.250 U	<1.250 U	110.61	1.35	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	675.62	5.74	<0.250 U	1.090 J	<0.250 U
251847	880												108				
252031													2480				
252906													1200				
255044													422				
257488	290												1530				
257754																	
261518	250												270				
262046	<10.000 U	<0.250 U	0.560 J	<0.250 U	1.590 J	59.51	2.81	1.57	<0.150 U	<0.250 U	4.92	<0.250 U	794.08	90.67	<0.250 U	11.93	0.890 J
262050	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	121.67	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	3750.18	81.53	<1.000 U	<1.000 U	<1.000 U

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
203971	<1.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
204658	<1.250 U	<0.250 U	<0.250 U	<0.250 U	1.55	<0.250 U	<0.250 U
206201	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.670 J	<0.250 U	<0.250 U
206406	10.81	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
206533	<2.500 U	<0.500 U	<0.500 U	<0.500 U	1.360 J	<0.500 U	<0.500 U
206546	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.560 J	<0.250 U	<0.250 U
215220	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.780 J	<0.250 U	<0.250 U
215223	<1.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
217571							
217829	1.380 J	<0.250 U	<0.250 U	<0.250 U	0.720 J	<0.250 U	<0.250 U
221112	<1.250 U	1.130 J	4.01	<0.250 U	1.010 J	1.88	<0.250 U
221574	55.000 J	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U
221597	<1.250 U	<0.250 U	<0.250 U	<0.250 U	3.45	<0.250 U	<0.250 U
221602	<0.500 U	<0.100 U	<0.100 U	<0.100 U	1.67	<0.100 U	<0.100 U
221649	<2.500 U	<0.500 U	<0.500 U	<0.500 U	1.210 J	<0.500 U	<0.500 U
221651	<2.500 U	<0.500 U	<0.500 U	<0.500 U	5.61	<0.500 U	<0.500 U
221691	<25.000 U	<5.000 U	<5.000 U	<5.000 U	2844.64	<5.000 U	<5.000 U
221722	<25.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U
222411	3.380 J	<0.250 U	<0.250 U	<0.250 U	1.250 J	<0.250 U	<0.250 U
223034	3.250 J	<0.500 U	<0.500 U	<0.500 U	1.810 J	<0.500 U	<0.500 U
223592							
223679	24.14	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
227360	1.430 J	<0.250 U	<0.250 U	<0.250 U	1.62	<0.250 U	<0.250 U
230563	212.99	<5.000 U	10.910 J	<5.000 U	<5.000 U	<5.000 U	<5.000 U
231796	5.560 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
236187	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
237042	1.780 J	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.100 U
238253	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.690 J	<0.250 U	<0.250 U
239610	11.62	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
239702	<0.500 U	<0.100 U	<0.100 U	<0.100 U	4.18	<0.100 U	<0.100 U
242663	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
246773	3.570 J	<0.500 U	<0.500 U	<0.500 U	1.300 J	<0.500 U	<0.500 U
247437	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
247510							
248655	2.12	<0.100 U	<0.100 U	<0.100 U	0.71	<0.100 U	<0.100 U
249699	4.770 J	<0.250 U	<0.250 U	<0.250 U	0.660 J	<0.250 U	<0.250 U
249758							
250390							
251722	14.42	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
251847							
252031							
252906							
255044							
257488							
257754							
261518							
262046	4.560 J	<0.250 U	<0.250 U	<0.250 U	1.86	<0.250 U	<0.250 U
262050	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
203971	<0.250 U	<0.250 U	<0.250 U	2.57	<0.250 U	0.620 J	<0.010 U	<0.200 U	<1.000 U	1143	1569	87	689	18.9046	DISSOLVED
204658	<0.250 U	<0.250 U	<0.250 U	1.040 J	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.09	1131	1464	7	563	70.0591	DISSOLVED
206201	<0.250 U	0.920 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.010 U	11.50	12.80	1592	1798	1141	333	0.8375	DISSOLVED
206406	<0.500 U	1.180 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	0.040 J	<0.200 U	3.08	1805	2238	678	700	5.7507	DISSOLVED
206533	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.010 U	<0.200 U	1.14	1481	1882	387	648	8.4055	DISSOLVED
206546	<0.250 U	0.710 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.17	1535	1944	616	661	5.0303	DISSOLVED
215220	<0.250 U	0.750 J	<0.250 U	2.26	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.35	1075	1501	346	689	5.8913	DISSOLVED
215223	<0.250 U	<0.250 U	<0.250 U	2.09	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	943	1241	417	481	3.365	DISSOLVED
217571										265	265	278	0	1.4868	DISSOLVED
217829	<0.250 U	1.51	<0.250 U	2.20	<0.250 U	<0.250 U	<0.010 U	0.66	1.40	1245	1556	929	503	0.628	DISSOLVED
221112	2.29	<0.250 U	0.530 J	1.180 J	1.33	<0.250 U	<0.010 U	<0.200 U	1.08	1090	1479	6	697	70.5736	DISSOLVED
221574	<5.000 U	15.310 J	<5.000 U	20.910 J	<5.000 U	<5.000 U	<1.000 U	0.30	3.44	24357	24682	6831	527	32.0048	DISSOLVED
221597	<0.250 U	<0.250 U	<0.250 U	1.220 J	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.64	765	1108	364	554	3.079	DISSOLVED
221602	<0.100 U	0.240 J	<0.100 U	1.06	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	495	686	310	309	1.2595	DISSOLVED
221649	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.050 U			1902	2541	734	1034	6.1817	DISSOLVED
221651	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.010 U	0.65	3.04	1582	2436	182	1380	18.0484	DISSOLVED
221691	<5.000 U	146.57	<5.000 U	140.22	<5.000 U	<5.000 U	<1.000 U			53492	53792	13108	484	53.5255	DISSOLVED
221722	<5.000 U	27.24	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<1.000 U			49650	49905	13080	412	52.3601	DISSOLVED
222411	<0.250 U	<0.250 U	<0.250 U	2.09	<0.250 U	0.720 J	<0.010 U	<0.200 U	1.51	1140	1496	8	610	67.1464	DISSOLVED
223034	<0.500 U	<0.500 U	<0.500 U	2.320 J	<0.500 U	<0.500 U	<0.010 U	<0.200 U	1.82	1960	2774	20	1327	74.5627	DISSOLVED
223592										206	206	8	0	29.7341	DISSOLVED
223679	<1.000 U	<1.000 U	<1.000 U	3.460 J	<1.000 U	<1.000 U	<0.050 U	<0.200 U	1.60	3517	4081	107	912	48.6509	DISSOLVED
227360	<0.250 U	<0.250 U	<0.250 U	1.39	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.04	1208	1625	8	724	65.8809	DISSOLVED
230563	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	0.34			9183	9353	2897	275	15.3758	DISSOLVED
231796	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	11.30	13.50	2234	2476	1201	391	4.0805	DISSOLVED
236187	<0.500 U	<0.500 U	<0.500 U	2.220 J	<0.500 U	<0.500 U	<0.010 U	<0.200 U	<1.000 U	1649	2090	19	744	60.002	DISSOLVED
237042	<0.100 U	0.430 J	<0.100 U	3.00	<0.100 U	<0.100 U	<0.010 U	2.36	3.52	698	811	273	183	3.1605	DISSOLVED
238253	<0.250 U	<0.250 U	<0.250 U	1.71	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1567	1975	18	678	57.8946	DISSOLVED
239610	<0.500 U	<0.500 U	<0.500 U	2.69	<0.500 U	<0.500 U	0.34	<0.200 U	2.10	1890	2309	357	677	11.7204	DISSOLVED
239702	<0.100 U	1.29	<0.100 U	9.87	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	610	809	426	322	0.7799	DISSOLVED
242663	<0.500 U	<0.500 U	<0.500 U	1.730 J	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.46	1714	2093	29	633	51.7403	DISSOLVED
246773	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.35	1647	2190	13	943	73.5024	DISSOLVED
247437	<1.000 U	<1.000 U	<1.000 U	2.170 J	<1.000 U	<1.000 U	<0.050 U	<0.200 U	1.40	1938	2630	22	1145	71.769	DISSOLVED
247510										166	166	196	0	1.7409	DISSOLVED
248655	<0.100 U	<0.100 U	<0.100 U	1.23	<0.100 U	0.72	<0.010 U	<0.200 U	<1.000 U	391	532	10	243	18.531	DISSOLVED
249699	<0.250 U	<0.250 U	<0.250 U	3.22	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.18	1442	1935	58	804	29.4255	DISSOLVED
249758										737	737	14	0	55.3196	DISSOLVED
250390										1266	1266	70	0	30.0776	DISSOLVED
251722	<0.250 U	<0.250 U	<0.250 U	3.43	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.14	1263	1713	135	728	15.9037	DISSOLVED
251847										673	673	9	0	76.3575	DISSOLVED
252031										1701	1701	658	0	10.8548	DISSOLVED
252906										332	332	539	0	0.5059	DISSOLVED
255044										1775	1775	48	0	65.0992	DISSOLVED
257488										1771	1771	561	0	10.8049	DISSOLVED
257754										150	150	332	0	0.7647	DISSOLVED
261518										1644	1644	29	0	54.6428	DISSOLVED
262046	<0.250 U	0.980 J	<0.250 U	1.020 J	<0.250 U	<0.250 U	<0.010 U	1.81	2.56	964	1196	482	376	2.6969	DISSOLVED
262050	<1.000 U	2.590 J	<1.000 U	4.860 J	<1.000 U	<1.000 U	0.63	<0.200 U	2.14	2543	3174	643	1021	11.7022	DISSOLVED

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
262870	48.9741	-104.0720	SHERIDAN	WELL		50	MBMG	8/19/15	1	7.4	7.01	3447	MBMG	339.96	121.45	345.27	11.41	5.472
262871	48.9054	-104.0601	SHERIDAN	WELL	112OTSH	115	MBMG	8/19/15	1	7.3	7.33	2587	MBMG	89.22	44.93	485.36	6.81	2.144
262872	48.7969	-104.0677	SHERIDAN	WELL	112OTSH	50	MBMG	8/19/15	1	8.9	7.28	3166	MBMG	126.07	62.03	559.76	9.15	2.997
264382	46.4080	-104.5736	FALLON	WELL	125FRUN	94	MBMG	4/15/15	1	10.3	8.36	2021	MBMG	3.24	1.55	519.31	1.35	0.047 J
266680	48.8303	-105.7753	DANIELS	WELL		460	PRIVATE	9/29/14	1				PACE	11.6	5.52	386	2.65	0.348
268638	48.1666	-104.5179	ROOSEVELT	WELL		156	MBMG	7/7/15	1	11.3	6.98	3553	MBMG	228	127.76	463	7.51	1.651
268991	47.9240	-104.5370	RICHLAND	WELL		100	PRIVATE	3/1/16	1				PACE	52.1	35.7	940	5.15	0.342
271681	48.9906	-104.0951	SHERIDAN	WELL		95	MBMG	8/19/15	1	7.7	6.96	2578	MBMG	112.91	67.51	411.38	9.01	0.614
272365	47.9963	-104.4161	RICHLAND	WELL		295	MBMG	7/19/16	1	11.6	8.09	5685	MBMG	20.03	13.79	1169.88	3.98	<0.150 U
273937	48.6061	-104.1850	SHERIDAN	WELL	112OTSH	136	MBMG	9/13/15	2	8	7.11	1321	MBMG	106.69	57.74	106.66	4.76	5.027
274382	47.6739	-104.0904	RICHLAND	WELL	211FHHC	1243	MBMG	5/20/15	1	16	8.94	1881	MBMG	1.37	0.4	459.4	1.25	0.109 J
274541	48.6075	-106.3143	VALLEY	WELL		30	PRIVATE	7/21/15	1	7.95	7.25	889	PACE	40.6	28.5	97.1	4.46	ND
275864	48.9207	-104.7053	SHERIDAN	WELL		264	MBMG	8/24/16	1	8.3	6.76	2858	MBMG	208.62	120.58	233.65	8.59	0.222 J
276839	47.1687	-104.9224	DAWSON	WELL	125FRUN	80	MBMG	5/12/15	1	9.1	7.4	827	MBMG	87.48	39.68	17.35	2.82	0.029 J
277314	47.2209	-109.4786	FERGUS	WELL		60	PRIVATE	2/10/15	1				PACE	104	32.9	14	4.86	1.73
278374	46.8679	-104.7195	DAWSON	WELL		780	MBMG	6/16/16	1	15.7	9.17	1596	MBMG	1.33	0.35	367.94	1.12	<0.038 U
279175	47.1151	-110.0072	JUDITH BASIN	SPRING	112SNGR		TCCD	7/29/14	1	11.3	7.76	612	MBMG	32.96	31.21	70.81	1.32	<0.015 U
279176	47.0157	-110.1594	JUDITH BASIN	WELL	217KOTN		TCCD	7/30/14	1	8.9	6.95	486	MBMG	55.67	30.16	10.07	5.7	0.173
279185	47.8490	-104.2694	RICHLAND	WELL		120	PRIVATE	8/20/14	1				PACE	49.8	32.1	534	5.36	0.518
279674	46.9320	-109.5101	FERGUS	SPRING			PRIVATE	2/11/15	1				PACE	81.5	39.9	2.3	2.6	
279677	47.0049	-109.7033	FERGUS	WELL		20	PRIVATE	2/12/15	1				PACE	83.7	35.5	37	0.844	
279678	47.1443	-109.3565	FERGUS	SPRING			PRIVATE	2/10/15	1				PACE	127	45.4	110	4.26	
279679	47.1931	-109.3535	FERGUS	WELL		160	PRIVATE	2/10/15	1				PACE	123	38.5	259	5.88	0.479
279743	46.8615	-109.0907	FERGUS	SPRING			PRIVATE	2/25/15	1				PACE	52.4	32.8	2.49	0.818	
279960	47.6008	-104.2556	RICHLAND	WELL	111TRRC	60	MBMG	5/12/15	1	10.5	7.36	795	MBMG	70.11	40.45	35.67	4.07	0.397
280431	46.1665	-104.2205	FALLON	WELL		120	MBMG	5/10/16	1	9.5	8.56	603.6	MBMG	9.45	4.94	98.38	0.84	0.118
280618	48.4251	-104.3890	SHERIDAN	WELL	112ALVM	140	MBMG	9/19/16	2	10.4	7.08	1293	MBMG	103.44	41.1	89.05	5.49	4.734
280621	48.4256	-104.4215	SHERIDAN	WELL	112ALVM	59	MBMG	9/19/16	2	11	7.09	2276	MBMG	171.41	90.42	175.7	9.95	<0.038 U
280641	48.4835	-104.4104	SHERIDAN	WELL	112OTSH	140	MBMG	9/19/16	2	10.3	7.27	2123	MBMG	86.06	48.68	279.15	5.88	2.968
280643	48.4840	-104.3542	SHERIDAN	WELL	112ALVM	248	MBMG	9/19/16	2	11	7.6	2406	MBMG	37.91	24.73	449.28	4.77	1.721
280645	48.5061	-104.3113	SHERIDAN	WELL	112OTSH	120	MBMG	9/20/16	2	8.8	7.1	3086	MBMG	151.97	97.57	356.76	6.06	3.889
280650	48.5240	-104.2636	SHERIDAN	WELL	112OTSH	90	MBMG	9/20/16	2	8.5	7.05	2797	MBMG	175.51	109.56	251.14	5.94	<0.075 U
280652	48.4911	-104.4320	SHERIDAN	WELL	112OTSH	140	MBMG	9/19/16	2	10.7	6.85	3889	MBMG	286.09	138.58	378.14	8.34	13.562
282364	48.6860	-105.6077	DANIELS	WELL			PRIVATE	9/29/14	1	8.27	7.03	750	PACE	51.5	51	21.2	2.41	0.0963
282661	47.1976	-104.9999	DAWSON	WELL		200	MBMG	5/11/16	1	11.1	7.67	5078	MBMG	13.78	11.56	994.64	3.61	<0.150 U
282972	47.1975	-104.8562	DAWSON	WELL			PRIVATE	8/5/14	1				PACE	2.41	0.882	639	1.35	0
283672	46.9876	-109.2744	FERGUS	WELL			PRIVATE	2/24/15	1				PACE	296	81.5	26.6	3.38	0.698
283680	46.9617	-109.4722	FERGUS	WELL			PRIVATE	2/11/15	1				PACE	102	83.5	5.78	5.57	0.1
283920	48.4917	-104.5181	SHERIDAN	WELL	112OTSH	64	MBMG	9/14/15	2	9.3	7.5	1052	MBMG	107.73	31.64	80.48	2.67	4.64
284015	47.7908	-104.0907	RICHLAND	WELL			PRIVATE	8/20/14	1				PACE	92.2	31.2	58.6	3.69	0
284198	48.3397	-104.0574	ROOSEVELT	WELL			MBMG	9/1/15	1	6.5	6.75	1488	MBMG	152.56	94.36	47.63	6.82	2.204
284270	48.7217	-104.4096	SHERIDAN	WELL		105	MBMG	8/23/16	1	10.1	6.84	2591	MBMG	217.99	111.07	172.18	7.86	3.196
284575	46.2096	-104.3310	FALLON	WELL		1080	MBMG	5/10/16	1	14.8	8.8	2397	MBMG	4.19	1.15	448.36	1.08	0.197
287136	47.0938	-104.7590	DAWSON	WELL		120	MBMG	5/12/16	1	11	8.75	1996	MBMG	3.75	1.27	368.28	1.03	<0.038 U
287543	47.8475	-104.0496	RICHLAND	WELL			PRIVATE	3/1/16	1				PACE	68.6	55.1	99	3.38	<50.0
287743	47.4121	-104.8173	DAWSON	WELL		33	MBMG	6/15/16	1	10	7.16	2994	MBMG	150.09	123.13	321.8	6.46	2.17
287744	47.2208	-105.1522	DAWSON	WELL		21	MBMG	6/15/16	1	11.7	7.55	2389	MBMG	257.4	377.76	223.87	7.63	0.063 J
291348	48.5447	-106.0236	VALLEY	WELL		120	PRIVATE	7/20/15	1				PACE	32.2	22.4	10.9	2	0.379

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
262870	5.246	25.41	901.56	0	1354	27.26	<0.050 U	0.32	<0.100 U	<0.500 U	<10.000 U	42.2	541.8	7.21	<0.500 U
262871	3.531	26.27	949.5	0	664.4	14.18	<0.010 U	0.25	<0.020 U	<0.500 U	<10.000 U	17.63	523.21	8.76	<0.500 U
262872	2.949	27.58	945.88	0	960.7	30.12	<0.050 U	0.35	<0.100 U	<0.500 U	<10.000 U	22.63	507.83	20.94	<0.500 U
264382	0.007 J	7.93	1346.25	19.29	39.45	8.34	<0.010 U	6.12	0.060 J	<0.250 U	<5.000 U	<0.250 U	882.27	81.67	<0.250 U
266680	0.0225				161	12.4		1.3						26.2	
268638	0.702	10.36	947.8	0	1341	6.14	<0.050 U	0.31	<0.100 U	2.730 J	<20.000 U	4.08	548.5	8.38	<1.000 U
268991	0.0515				1600	4.8		0.26						9.3	
271681	0.516	20.96	814.05	0	779.4	9.74	<0.010 U	0.21	<0.020 U	<0.500 U	<10.000 U	<0.500 U	305.67	7.47	<0.500 U
272365	0.033 J	7.52	1106.25	0	1773	6.86	<0.050 U	0.52	<0.100 U	<1.000 U	<20.000 U	<1.000 U	413.25	15.79	<1.000 U
273937	0.362	25.12	615.97	0	255.4	3.56	<0.010 U	0.27	<0.020 U	<0.250 U	<5.000 U	16.56	261.97	27.58	<0.250 U
274382	<0.005 U	12.4	978.36	30.07	0.920 J	109.2	<0.010 U	4.65	0.13	<0.250 U	<5.000 U	0.760 J	1603.67	97.56	<0.250 U
274541	ND				108	16.8		0.48						42.2	
275864	0.163 J	13.02	914.11	0	774.8	12.12	2.07	0.14	<0.020 U	1.220 J	<10.000 U	<0.500 U	1486.91	11.68	<0.500 U
276839	0.136	15.29	339.73	0	36.84	92.01	0.06	0.18	<0.020 U	<0.100 U	<2.000 U	0.42	23.46	167.67	<0.100 U
277314	4.93														
278374	<0.005 U	11.11	759.53	43.26	120.5	11.41	<0.010 U	2.35	0.4	<0.250 U	<5.000 U	<0.250 U	771.65	68.75	<0.250 U
279175	<0.002 U	12.99	347.67	0	26.17	4.46	14.18	3.57	<0.020 U	<0.100 U	<2.000 U	1.7	281.26	147.35	<0.100 U
279176	0.004 J	6.21	272.56	0	77.44	1.32	<0.010 U	0.75	<0.020 U	<0.100 U	<2.000 U	<0.100 U	35.18	26.7	<0.100 U
279185	0.04				749	5.8		0.77						15.7	
279674															
279677	7.2														
279678	5.7														
279679	0.28														
279743	0.0018														
279960	0.074	21.41	409.04	0	102.8	3.13	<0.010 U	0.31	<0.020 U	<0.100 U	<2.000 U	<0.100 U	137.24	60.63	<0.100 U
280431	0.07	19.2	245.72	4.47	59.49	6.16	0.030 J	0.24	0.060 J	<0.100 U	<2.000 U	<0.100 U	48.6	53.79	<0.100 U
280618	0.161	30.76	618.08	0	147.9	2.56	<0.010 U	0.48	<0.020 U	<0.250 U	<5.000 U	16.9	191.64	33.86	<0.250 U
280621	0.975	28.66	775.89	0	529.6	20.98	2.6	0.49	<0.020 U	<0.250 U	<5.000 U	1.46	225.61	29.89	<0.250 U
280641	0.063 J	26.76	978.02	0	269.1	12.18	<0.010 U	0.45	<0.020 U	<0.250 U	<5.000 U	16.21	209.18	23.35	<0.250 U
280643	0.037 J	22.09	1306.44	0	103.9	43.67	<0.010 U	1.2	<0.020 U	<0.250 U	<5.000 U	10.07	212.91	53.89	<0.250 U
280645	0.344	15.72	714.92	0	1002	11.97	<0.050 U	0.39	<0.100 U	<0.500 U	<10.000 U	1.570 J	140.43	18.7	<0.500 U
280650	1.367	21.86	753.68	0	804.1	25.06	7.56	0.35	<0.020 U	<0.500 U	<10.000 U	<0.500 U	230.88	12.1	<0.500 U
280652	0.321 J	28.33	1525.54	0	904.1	21.65	<0.050 U	0.4	<0.100 U	<1.000 U	<20.000 U	23.87	260.67	13.44	<1.000 U
282364	0.0085				42.9	5.5		0.61						115	
282661	<0.020 U	7.05	1688.45	0	917.3	8.3	0.210 J	0.71	<0.100 U	<1.000 U	<20.000 U	8.01	169.61	3.060 J	<1.000 U
282972	0.0025				120	32.4		2.9						59.5	
283672	1.7														
283680	3.19														
283920	1.629	22.81	579.88	0	116.4	6.5	<0.010 U	0.43	<0.020 U	<0.250 U	69.21	17.53	341.66	53.63	<0.250 U
284015	0.00063				148	12.1		0.33						29.2	
284198	0.706	21.53	665.71	0	344.2	6.12	<0.010 U	0.16	<0.020 U	<0.250 U	<5.000 U	<0.250 U	175.11	18.73	<0.250 U
284270	0.407	14.32	851.65	0	679	7.08	<0.010 U	0.08	<0.020 U	<0.500 U	<10.000 U	1.180 J	434.45	15.36	<0.500 U
284575	0.010 J	11.03	851.93	30.16	336.6	7.3	<0.010 U	0.49	0.11	<0.250 U	<5.000 U	<0.250 U	232.22	59.29	<0.250 U
287136	<0.005 U	10.88	609.86	14.46	332	13.62	<0.010 U	1.03	0.12	<0.250 U	<5.000 U	<0.250 U	509.68	12.6	<0.250 U
287543	<0.50				189	17.8		0.58						24.2	
287743	0.162 J	11.58	944.47	0	797.5	4.01	<0.010 U	0.2	<0.020 U	<0.500 U	<10.000 U	<0.500 U	164.59	10.84	<0.500 U
287744	<0.005 U	17.68	399.42	0	2196	38.3	8.14	0.38	<0.100 U	<0.250 U	<5.000 U	<0.250 U	443.32	14.55	<0.250 U
291348	0.0793				10.8	1.4		0.21						119	

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
262870	642	<0.500 U	4.84	<0.500 U	<2.500 U	181.34	3.05	1.840 J	<0.300 U	<0.500 U	2.010 J	<0.500 U	1720.21	297.85	<0.500 U	19.90	<0.500 U
262871	335	<0.500 U	<0.500 U	<0.500 U	<2.500 U	84.11	4.06	1.160 J	<0.300 U	<0.500 U	<0.500 U	<0.500 U	828.24	84.74	<0.500 U	1.130 J	<0.500 U
262872	565	<0.500 U	<0.500 U	<0.500 U	<2.500 U	103.24	3.6	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1312.59	115.85	<0.500 U	2.000 J	<0.500 U
264382	125	<0.250 U	<0.250 U	3.49	<1.250 U	27.22	1.46	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	124.56	5.04	<0.250 U	<0.250 U	1.230 J
266680	190												239				
268638	<50.000 U	<1.000 U	2.150 J	<1.000 U	<5.000 U	86.910 J	2.930 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	2587.84	190.61	<1.000 U	4.710 J	<1.000 U
268991	<0.10										<0.50		1780				
271681	255	<0.500 U	<0.500 U	<0.500 U	<2.500 U	140.48	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	1283.68	104.79	<0.500 U	<0.500 U	<0.500 U
272365	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	83.390 J	4.870 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	834.08	34.25	<1.000 U	<1.000 U	<1.000 U
273937	<10.000 U	<0.250 U	0.850 J	<0.250 U	<1.250 U	76.66	4.38	1.230 J	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1194.12	98.46	<0.250 U	2.35	<0.250 U
274382	898	<0.250 U	<0.250 U	1.52	<1.250 U	54.9	<0.250 U	<0.250 U	<0.150 U	<0.250 U	1.090 J	<0.250 U	58.94	1.090 J	<0.250 U	<0.250 U	0.620 J
274541	300										8.1		453				
275864	181	<0.500 U	1.860 J	<0.500 U	<2.500 U	92.5	1.710 J	<0.500 U	<0.300 U	<0.500 U	6.83	<0.500 U	3581.53	14.28	<0.500 U	3.20	<0.500 U
276839	183	<0.100 U	0.240 J	0.58	1.640 J	17.85	<0.100 U	0.420 J	<0.060 U	<0.100 U	0.75	<0.100 U	468.03	68.07	<0.100 U	7.33	0.250 J
277314																	
278374	135	<0.250 U	<0.250 U	0.820 J	<1.250 U	32.97	4.7	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	61.19	15.07	<0.250 U	<0.250 U	0.990 J
279175	<10.000 U	<0.100 U	<0.100 U	0.220 J	1.010 J	42.9	17	<0.100 U	<0.060 U	<0.100 U	2.88	<0.100 U	476.54	20.26	<0.100 U	21.29	14.20
279176	<10.000 U	<0.100 U	<0.100 U	<0.100 U	1.090 J	56.73	5.49	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	842.24	42.93	<0.100 U	<0.100 U	<0.100 U
279185													1150				
279674																	
279677																	
279678																	
279679																	
279743																	
279960	<10.000 U	<0.100 U	<0.100 U	0.56	<0.500 U	20.1	<0.100 U	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	1197.05	56.38	<0.100 U	<0.100 U	<0.100 U
280431	<10.000 U	<0.100 U	<0.100 U	<0.100 U	<0.500 U	30.46	1.86	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	107.11	8.73	<0.100 U	<0.100 U	<0.100 U
280618	85	<0.250 U	<0.250 U	<0.250 U	<1.250 U	53.46	1.100 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	872.46	2.33	<0.250 U	<0.250 U	<0.250 U
280621	123	<0.250 U	1.210 J	0.610 J	3.980 J	90.62	2.72	2.67	<0.150 U	<0.250 U	2.24	<0.250 U	2066.3	9.95	<0.250 U	2.83	<0.250 U
280641	306	<0.250 U	<0.250 U	0.590 J	<1.250 U	43.07	2.67	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	798.78	4.39	<0.250 U	1.150 J	<0.250 U
280643	491	<0.250 U	<0.250 U	1.030 J	<1.250 U	35.82	13.83	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	503.27	1.77	<0.250 U	1.32	<0.250 U
280645	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	66.41	1.630 J	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	2207.15	16.94	<0.500 U	2.050 J	<0.500 U
280650	275	<0.500 U	<0.500 U	<0.500 U	<2.500 U	55.88	1.310 J	<0.500 U	<0.300 U	<0.500 U	4.89	<0.500 U	1808.04	13.63	<0.500 U	7.64	<0.500 U
280652	587	<1.000 U	<1.000 U	<1.000 U	<5.000 U	72.780 J	3.250 J	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	1868.17	17.41	<1.000 U	8.62	<1.000 U
282364											3.7		369				
282661	<50.000 U	<1.000 U	<1.000 U	<1.000 U	<5.000 U	55.660 J	<1.000 U	<1.000 U	<0.600 U	<1.000 U	<1.000 U	<1.000 U	798.75	32.11	<1.000 U	<1.000 U	<1.000 U
282972	640												108				
283672																	
283680																	
283920	<10.000 U	<0.250 U	1.36	<0.250 U	<1.250 U	18.650 J	8.3	2.25	<0.150 U	<0.250 U	<0.250 U	<0.250 U	545.94	74.52	<0.250 U	3.32	0.870 J
284015											2.2		711				
284198	<10.000 U	<0.250 U	<0.250 U	1.26	<1.250 U	62.3	<0.250 U	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	1328.54	117.31	<0.250 U	<0.250 U	<0.250 U
284270	74	<0.500 U	<0.500 U	<0.500 U	<2.500 U	77.99	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	3795.65	12.95	<0.500 U	<0.500 U	<0.500 U
284575	64	<0.250 U	<0.250 U	<0.250 U	<1.250 U	28.39	1.030 J	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	96.41	11.32	<0.250 U	<0.250 U	<0.250 U
287136	135	<0.250 U	<0.250 U	<0.250 U	<1.250 U	47.75	4.12	<0.250 U	<0.150 U	<0.250 U	<0.250 U	<0.250 U	94.72	8.52	<0.250 U	<0.250 U	<0.250 U
287543	62										3.6		656				
287743	<10.000 U	<0.500 U	<0.500 U	1.050 J	<2.500 U	87.2	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	3739.93	126.16	<0.500 U	<0.500 U	<0.500 U
287744	<50.000 U	<0.250 U	<0.250 U	<0.250 U	<1.250 U	67.88	<0.250 U	<0.250 U	3.03	<0.250 U	21.27	<0.250 U	5934.68	300.89	<0.250 U	15.14	<0.250 U
291348	ND										ND		402				

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
262870	4.040 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
262871	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
262872	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
264382	6.53	0.590 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
266680							
268638	58.32	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
268991							
271681	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
272365	23.03	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
273937	<1.250 U	<0.250 U	<0.250 U	<0.250 U	2.12	<0.250 U	<0.250 U
274382	2.420 J	<0.250 U	<0.250 U	<0.250 U	3.73	<0.250 U	<0.250 U
274541							
275864	32.42	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
276839	4.91	<0.100 U	<0.100 U	<0.100 U	6.49	<0.100 U	<0.100 U
277314							
278374	<1.250 U	0.740 J	1.050 J	<0.250 U	3.04	<0.250 U	<0.250 U
279175	96.40	<0.100 U	<0.100 U	<0.100 U	6.69	<0.100 U	<0.100 U
279176	8.14	<0.100 U	<0.100 U	0.230 J	1.22	<0.100 U	<0.100 U
279185							
279674							
279677							
279678							
279679							
279743							
279960	7.27	<0.100 U	<0.100 U	<0.100 U	2.29	<0.100 U	<0.100 U
280431	<0.500 U	<0.100 U	<0.100 U	<0.100 U	1.99	<0.100 U	<0.100 U
280618	1.890 J	<0.250 U	<0.250 U	<0.250 U	1.36	<0.250 U	<0.250 U
280621	4.200 J	<0.250 U	<0.250 U	<0.250 U	1.100 J	<0.250 U	<0.250 U
280641	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.880 J	<0.250 U	<0.250 U
280643	<1.250 U	<0.250 U	<0.250 U	<0.250 U	2.12	<0.250 U	<0.250 U
280645	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
280650	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
280652	<5.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
282364							
282661	7.430 J	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U
282972							
283672							
283680							
283920	<1.250 U	0.820 J	<0.250 U	<0.250 U	4.20	<0.250 U	<0.250 U
284015							
284198	<1.250 U	<0.250 U	<0.250 U	<0.250 U	0.780 J	<0.250 U	<0.250 U
284270	34.18	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
284575	<1.250 U	<0.250 U	<0.250 U	<0.250 U	2.11	<0.250 U	<0.250 U
287136	<1.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
287543							
287743	11.39	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
287744	5.44	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.250 U
291348							

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
262870	<0.500 U	1.410 J	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.050 U	<0.200 U	2.10	2678	3135	1349	740	4.0877	DISSOLVED
262871	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.010 U	<0.200 U	1.23	1804	2286	408	779	10.4516	DISSOLVED
262872	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.050 U	<0.200 U	1.62	2248	2728	570	776	10.2054	DISSOLVED
264382	<0.250 U	<0.250 U	<0.250 U	1.96	<0.250 U	0.600 J	<0.010 U	<0.200 U	1.01	1268	1951	14	1136	59.3681	DISSOLVED
266680										580	580	52	0	23.3628	DISSOLVED
268638	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	<0.200 U	<1.000 U	2654	3135	1095	778	6.0877	DISSOLVED
268991										2638	2638	277	0	24.5739	DISSOLVED
271681	<0.500 U	1.010 J	<0.500 U	3.54	<0.500 U	<0.500 U	0.040 J	0.25	2.27	1813	2226	560	668	7.5586	DISSOLVED
272365	<1.000 U	<1.000 U	<1.000 U	3.400 J	<1.000 U	2.020 J	<0.050 U	<0.200 U	1.52	3542	4103	107	907	49.268	DISSOLVED
273937	<0.250 U	1.69	<0.250 U	4.85	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.03	869	1181	504	505	2.0738	DISSOLVED
274382	<0.250 U	<0.250 U	<0.250 U	1.55	<0.250 U	1.71	<0.010 U	<0.200 U	1.07	1100	1596	5	852	88.7273	DISSOLVED
274541										295	295	219	0	2.8541	DISSOLVED
275864	<0.500 U	2.270 J	<0.500 U	5.99	<0.500 U	<0.500 U	<0.010 U	1.77	3.46	1824	2288	1017	750	3.1924	DISSOLVED
276839	<0.100 U	0.380 J	<0.100 U	1.38	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	459	631	382	279	0.3786	DISSOLVED
277314										163	163	395	0	0.3065	DISSOLVED
278374	0.600 J	4.28	<0.250 U	1.030 J	<0.250 U	3.79	<0.010 U	<0.200 U	<1.000 U	933	1319	5	695	73.3847	DISSOLVED
279175	<0.100 U	0.440 J	<0.100 U	<0.100 U	<0.100 U	<0.100 U	<0.010 U	13.00	13.00	369	545	211	285	2.128	DISSOLVED
279176	<0.100 U	0.76	<0.100 U	5.91	<0.100 U	0.67	<0.010 U	<0.200 U	<1.000 U	321	460	263	224	0.2682	DISSOLVED
279185										1378	1378	256	0	14.5089	DISSOLVED
279674										126	126	368	0	0.0454	DISSOLVED
279677										164	164	355	0	0.8544	DISSOLVED
279678										292	292	504	0	2.1321	DISSOLVED
279679										427	427	466	0	5.2231	DISSOLVED
279743										88	88	266	0	0.0534	DISSOLVED
279960	<0.100 U	1.16	<0.100 U	3.26	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	479	687	342	335	0.8476	DISSOLVED
280431	<0.100 U	<0.100 U	<0.100 U	1.18	<0.100 U	<0.100 U	<0.010 U	<0.200 U	<1.000 U	323	447	44	208	6.4338	DISSOLVED
280618	<0.250 U	<0.250 U	<0.250 U	3.27	<0.250 U	<0.250 U	<0.010 U	<0.200 U	1.19	730	1044	427	507	1.8731	DISSOLVED
280621	<0.250 U	1.110 J	<0.250 U	4.39	<0.250 U	<0.250 U	<0.010 U	2.20	3.55	1414	1808	800	636	2.7073	DISSOLVED
280641	<0.250 U	<0.250 U	<0.250 U	1.180 J	<0.250 U	<0.250 U	<0.010 U	<0.200 U	2.10	1213	1709	415	802	5.9575	DISSOLVED
280643	<0.250 U	<0.250 U	<0.250 U	1.39	<0.250 U	<0.250 U	<0.010 U	0.23	2.45	1333	1996	196	1071	13.9391	DISSOLVED
280645	<0.500 U	1.360 J	<0.500 U	2.80	<0.500 U	<0.500 U	<0.050 U	<0.200 U	2.18	1999	2362	781	586	5.5583	DISSOLVED
280650	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.010 U	5.77	6.11	1773	2156	889	618	3.6626	DISSOLVED
280652	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<0.050 U	0.42	3.13	2530	3305	1285	1252	4.5888	DISSOLVED
282364										176	176	339	0	0.4966	DISSOLVED
282661	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	<1.000 U	0.200 J	0.20	1.86	2789	3645	82	1384	47.8136	DISSOLVED
282972										798	798	10	0	89.5175	DISSOLVED
283672										411	411	1075	0	0.3584	DISSOLVED
283680										201	201	598	0	0.1067	DISSOLVED
283920	<0.250 U	0.630 J	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.010 U	0.53	1.42	661	955	399	476	1.7422	DISSOLVED
284015										346	346	359	0	1.3557	DISSOLVED
284198	<0.250 U	1.180 J	<0.250 U	1.91	<0.250 U	<0.250 U	<0.010 U	<0.200 U	<1.000 U	1005	1343	769	546	0.753	DISSOLVED
284270	<0.500 U	1.950 J	<0.500 U	8.08	<0.500 U	<0.500 U	<0.010 U	<0.200 U	2.46	1632	2064	1001	699	2.365	DISSOLVED
284575	<0.250 U	<0.250 U	<0.250 U	1.42	<0.250 U	0.600 J	<0.010 U	<0.200 U	1.13	1259	1691	15	749	50.0092	DISSOLVED
287136	<0.250 U	<0.250 U	<0.250 U	1.090 J	<0.250 U	1.130 J	<0.010 U	<0.200 U	1.00	1047	1356	15	524	41.9212	DISSOLVED
287543										434	434	398	0	2.159	DISSOLVED
287743	<0.500 U	2.430 J	<0.500 U	4.82	<0.500 U	<0.500 U	<0.010 U	0.21	1.65	1882	2361	882	774	4.7188	DISSOLVED
287744	<0.250 U	4.07	<0.250 U	<0.250 U	<0.250 U	<0.250 U	<0.050 U	7.09	8.21	3324	3526	2198	327	2.0791	DISSOLVED
291348										80	80	173	0	0.3643	DISSOLVED

Gwic Id	Latitude	Longitude	County	Site Type	Aquifer	Depth (ft)	Sampling Agency	Sample Date	number of samples	Water Temp	Field pH	Field SC	Lab	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Fe (mg/l)
291349	48.7732	-106.3566	VALLEY	WELL			PRIVATE	7/20/15	1		6.48	0.87	PACE	68.6	46.8	32	3.29	ND
291486	47.5844	-105.6152	MCCONE	WELL		100	PRIVATE	7/21/15	1				PACE	118	97.7	483	8.22	0.36
702410	47.2375	-104.9125	DAWSON	WELL	125FRUN	33	PRIVATE	8/6/14	1				PACE	119	89.4	578	5.17	3.82
703510	48.8085	-105.8491	DANIELS	WELL		124	PRIVATE	11/10/15	1				PACE	58.8	41.3	336	3.05	8.17
703740	48.8401	-105.0807	DANIELS	WELL		112	PRIVATE	9/29/14	1				PACE	482	408	293	17.7	0.502
704434	48.1625	-104.8490	ROOSEVELT	WELL		36	PRIVATE	9/3/14	1				PACE	7.4	4.2	1070	3.19	0
704436	48.1622	-104.8480	ROOSEVELT	WELL		36	PRIVATE	9/3/14	1				PACE	101	73.7	342	6.09	0
704437	48.1592	-104.8565	ROOSEVELT	WELL			PRIVATE	9/4/14	1				PACE	230	138	329	7.46	0.318
704694	48.2641	-105.4391	ROOSEVELT	WELL	211HLCK	65	MBMG	7/20/16	1	14.9	7.65	598.8	MBMG	39.17	22.42	40.91	2.21	0.293
704718	48.2628	-105.0996	ROOSEVELT	WELL	110ALVM	23	PRIVATE	9/3/14	1				PACE	29.7	25.1	235	4.36	0.67
704754	48.2287	-104.3446	ROOSEVELT	WELL	125FRUN	70	MBMG	9/2/15	2	10	6.76	3123	MBMG	247.29	202.27	228.45	10.57	0.097 J
890422	48.7961	-104.1436	SHERIDAN	WELL	112TILL	42	MBMG	9/2/15	2	16.2	6.68	70787	MBMG	2562.23	2880.94	10321.79	78.5	<0.750 U
890933	48.8485	-104.1000	SHERIDAN	WELL	112OTSH	17	MBMG	8/5/15	3	17	7.38	68404	MBMG	1106.4	1248.35	13890.75	192.94	<0.750 U

Gwic Id	Mn (mg/l)	SiO2 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	SO4 (mg/l)	Cl (mg/l)	NO3-N (mg/l)	F (mg/l)	OPO4-P (mg/l)	Ag (ug/l)	Al (ug/l)	As (ug/l)	B (ug/l)	Ba (ug/l)	Be (ug/l)
291349	ND				68.6	11.3		0.55						140	
291486	0.192				874	15.2		0.12						18.2	
702410	0.544				1570	16.5		0.56						16.2	
703510	0.476				284	18.5		0.7						45	
703740	0.269				2030	65.1								6.4	
704434	0.0114				560	14		1.4						12.5	
704436	0.0328				633	9.1		0.29						20.3	
704437	0.939				1210	13.1								14.5	
704694	0.045 J	13.23	308.32	0	31.07	3.14	<0.010 U	0.28	<0.020 U	<0.100 U	<2.000 U	0.210 J	146.19	73.75	<0.100 U
704718	0.157				198	15.7		0.26						52.6	
704754	0.453	12.77	935.5	0	1036	9.61	2.06	0.29	<0.100 U	<0.500 U	<10.000 U	<0.500 U	199.58	11.2	<0.500 U
890422	1.399 J	19.13	378.06	0	2162	27502	79.71	6.97	<2.000 U	<5.000 U	<100.000 U	42.75	134.41	65.84	<5.000 U
890933	<0.100 U	22.64	374.76	0	1787	27590	7.2	<1.000 U	<2.000 U	<5.000 U	<100.000 U	37.46	17446.41	68.81	<5.000 U

Gwic Id	Br (ug/l)	Cd (ug/l)	Co (ug/l)	Cr (ug/l)	Cu (ug/l)	Li (ug/l)	Mo (ug/l)	Ni (ug/l)	Pb (ug/l)	Sb (ug/l)	Se (ug/l)	Sn (ug/l)	Sr (ug/l)	Ti (ug/l)	Tl (ug/l)	U (ug/l)	V (ug/l)
291349	280										6.7		607				
291486	ND										ND		4520				
702410													2040				
703510	250										ND		574				
703740											149		8900				
704434													370				
704436													1360				
704437											11.8		3110				
704694	<10.000 U	<0.100 U	<0.100 U	<0.100 U	<0.500 U	32.81	1.17	<0.100 U	<0.060 U	<0.100 U	<0.100 U	<0.100 U	431.54	0.420 J	<0.100 U	<0.100 U	<0.100 U
704718													401				
704754	<50.000 U	<0.500 U	<0.500 U	<0.500 U	<2.500 U	61.75	<0.500 U	<0.500 U	<0.300 U	<0.500 U	<0.500 U	<0.500 U	2132.77	4.41	<0.500 U	1.050 J	<0.500 U
890422	57390	<5.000 U	<5.000 U	<5.000 U	<25.000 U	3541.44	<5.000 U	19.380 J	<3.000 U	<5.000 U	277.69	<5.000 U	27272.76	1741.06	<5.000 U	85.03	<5.000 U
890933	39020	<5.000 U	<5.000 U	<5.000 U	<25.000 U	4555.04	<5.000 U	<5.000 U	<3.000 U	<5.000 U	96.23	<5.000 U	19349.53	744.97	<5.000 U	24.320 J	<5.000 U

Gwic Id	Zn (ug/l)	Zr (ug/l)	Ce (ug/l)	Cs (ug/l)	Ga (ug/l)	La (ug/l)	Nb (ug/l)
291349							
291486							
702410							
703510							
703740							
704434							
704436							
704437							
704694	3.60	<0.100 U	<0.100 U	<0.100 U	3.10	<0.100 U	<0.100 U
704718							
704754	<2.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U
890422	<25.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U
890933	34.470 J	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<5.000 U

Gwic Id	Nd (ug/l)	Pd (ug/l)	Pr (ug/l)	Rb (ug/l)	Th (ug/l)	W (ug/l)	NO2-N (mg/l)	NO3+NO2-N (mg/l)	Total N as N (mg/l)	Total Dissolved Solids (mg/l)	Sum Dissolved Constituents (mg/l)	Hardness (mg/l)	Alkalinity	SAR	Procedure
291349										231	231	364	0	0.7299	DISSOLVED
291486										1596	1596	697	0	7.9617	DISSOLVED
702410										2384	2384	665	0	9.7519	DISSOLVED
703510										751	751	317	0	8.2139	DISSOLVED
703740										3297	3297	2883	0	2.3744	DISSOLVED
704434										1660	1660	36	0	77.8524	DISSOLVED
704436										1165	1165	556	0	6.3136	DISSOLVED
704437										1928	1928	1142	0	4.2356	DISSOLVED
704694	<0.100 U	0.270 J	<0.100 U	1.58	<0.100 U	<0.100 U	<0.010 U	<0.200 U	1.08	303	460	190	253	1.294	DISSOLVED
704718										509	509	177	0	7.6756	DISSOLVED
704754	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	<0.500 U	0.64	1.56	2.41	2211	2686	1450	768	2.6053	DISSOLVED
890422	<5.000 U	23.500 J	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<1.000 U			45800	45992	18256	310	33.2403	DISSOLVED
890933	<5.000 U	17.330 J	<5.000 U	<5.000 U	<5.000 U	<5.000 U	<1.000 U	1.04	1.04	46030	46221	7901	308	67.9981	DISSOLVED

E. Organic and radiochemistry results:
Surface water
E1. Complete results
E2. Summary of detections
E3. Methane and organic carbon results

			Organics														
Code	Station Name	Activity Start	Acenaphthene ug/l	Acenaphthylene ug/l	Anthracene ug/l	Benz[a]anthracene ug/l	Benzene ug/l	Benzo(b)fluoranthene ug/l	Benzo[a]pyrene ug/l	Benzo[ghi]perylene ug/l	Benzo[k]fluoranthene ug/l	C5-C8 Aliphatics ug/l	C9-C12 Aliphatics ug/l	Chrysene ug/l	Dibenz[a,h]anthracene ug/l	Ethylbenzene ug/l	Fluoranthene ug/l
Y23BENPC03	Bennie Peer Creek	4/23/2013 18:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Bennie Peer Creek	6/25/2013 16:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Bennie Peer Creek	8/7/2013 10:32	0.033	0.016	0.014	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.01
	Bennie Peer Creek	8/7/2013 10:32	0.023	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Bennie Peer Creek	10/23/2013 15:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.02
M50BMDYC11	Big Muddy Creek	7/12/2012 9:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	7/12/2012 9:45	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	10/17/2012 11:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	10/17/2012 11:15	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	4/23/2013 13:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	4/23/2013 13:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	6/25/2013 8:16	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	8/6/2013 13:03	0.013	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Big Muddy Creek	10/23/2013 7:50	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
M50BMDYC12	Big Muddy Creek	6/13/2012 18:32	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
Y23CABNC08	Cabin Creek	4/22/2013 11:16	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cabin Creek	6/24/2013 11:34	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cabin Creek	8/5/2013 13:10	0.1	0.09	0.056	ND	ND	ND	ND	ND	ND			0.021	ND	ND	0.032
	Cabin Creek	10/22/2013 8:54	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
Y23CEDRC04	Cedar Creek	4/22/2013 9:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cedar Creek	6/24/2013 9:16	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cedar Creek	8/5/2013 9:35	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cedar Creek	10/21/2013 15:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cedar Creek	10/21/2013 15:00	0.023	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Cedar Creek	10/24/2014 12:15					ND									ND	
M51CHLYC04	Charlie Creek East	6/13/2012 13:53	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek East	7/11/2012 18:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek East	10/17/2012 16:10	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek East	4/23/2013 11:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek East	6/25/2013 12:12	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek East	8/6/2013 16:25	0.06	0.011	0.018	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.01
	Charlie Creek East	10/23/2013 11:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
M51CHLYC05	Charlie Creek West	6/13/2012 15:49	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	7/11/2012 16:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	10/17/2012 14:23	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	4/23/2013 9:52	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	6/25/2013 10:24	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	8/6/2013 14:56	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Charlie Creek West	10/23/2013 9:50	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.016
Y23DRMFC01	Deer Creek Middle Fork	6/24/2014 19:41					ND									ND	
	Deer Creek Middle Fork	8/13/2014 9:06					ND									ND	
	Deer Creek Middle Fork	8/13/2014 9:06					ND									ND	
	Deer Creek Middle Fork	10/24/2014 8:20					ND									ND	
	Deer Creek Middle Fork	4/29/2015 11:00					ND									ND	
	Deer Creek Middle Fork	4/29/2015 11:00					ND									ND	
	Deer Creek Middle Fork	6/19/2015 12:00					ND									ND	
	Deer Creek Middle Fork	10/21/2015 9:58					ND									ND	
	Deer Creek Middle Fork	10/21/2015 10:08					ND									ND	
Y23DEERC01	Deer Creek	6/25/2014 8:11					ND									ND	
	Deer Creek	6/25/2014 8:11					ND									ND	
	Deer Creek	8/13/2014 7:14					ND									ND	
Y23DRSFC01	Deer Creek South Fork	10/24/2014 9:54					ND									ND	
	Deer Creek South Fork	10/24/2014 9:54					ND									ND	
	Deer Creek South Fork	4/29/2015 12:15					ND									ND	
	Deer Creek South Fork	6/19/2015 14:02					ND									ND	
	Deer Creek South Fork	8/5/2015 13:24					ND									ND	
	Deer Creek South Fork	10/21/2015 11:30															
	Deer Creek South Fork	6/22/2016 16:56					ND									ND	

Station Name	Activity Start	Fluorene ug/l	Formaldehyde mg/l	Hydrocarbons, total purgeable	Indeno[1,2,3-cd] pyrene ug/l	m,p-Xylene ug/l	Methanol mg/l	Methyl tert-butyl ether ug/l	Naphthalene ug/l	o-Xylene ug/l	Petroleum hydrocarbons, total extractable ug/l	Phenanthrene ug/l	Pyrene ug/l	Toluene ug/l	Xylene ug/l	Radiochemistry Alpha particle pCi/L	Radiochemistry Beta particle pCi/L
Bennie Peer Creek	4/23/2013 18:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		17	12
Bennie Peer Creek	6/25/2013 16:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		19	ND
Bennie Peer Creek	8/7/2013 10:32	0.052	ND		ND	ND	ND		0.083	ND		0.079	ND	ND		7.9	11
Bennie Peer Creek	8/7/2013 10:32	0.034	ND		ND	ND	ND		0.052	ND		0.052	ND	ND		6.4	7.7
Bennie Peer Creek	10/23/2013 15:30	ND	ND		ND	ND	ND		ND	ND		ND	0.012	ND		12	17
Big Muddy Creek	7/12/2012 9:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Big Muddy Creek	7/12/2012 9:45	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Big Muddy Creek	10/17/2012 11:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Big Muddy Creek	10/17/2012 11:15	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Big Muddy Creek	4/23/2013 13:30	ND	ND		ND	ND	ND		0.092	ND		ND	ND	ND		8.7	11
Big Muddy Creek	4/23/2013 13:30	ND	ND		ND	ND	ND		0.043	ND		ND	ND	ND		5.8	18
Big Muddy Creek	6/25/2013 8:16	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		18	15
Big Muddy Creek	8/6/2013 13:03	0.034	ND		ND	ND	ND		0.045	ND		0.088	ND	ND		7.1	11
Big Muddy Creek	10/23/2013 7:50	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		8	ND
Big Muddy Creek	6/13/2012 18:32	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Cabin Creek	4/22/2013 11:16	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		16	13
Cabin Creek	6/24/2013 11:34	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		22	18
Cabin Creek	8/5/2013 13:10	0.15	ND		ND	ND	ND		0.11	ND		0.26	0.029	ND		21	14
Cabin Creek	10/22/2013 8:54	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		24	13
Cedar Creek	4/22/2013 9:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		40	ND
Cedar Creek	6/24/2013 9:16	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		31	16
Cedar Creek	8/5/2013 9:35	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		18	18
Cedar Creek	10/21/2013 15:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		19	13
Cedar Creek	10/21/2013 15:00	0.022	ND		ND	ND	ND		0.044	ND		0.022	ND	ND		28	12
Cedar Creek	10/24/2014 12:15					ND		ND	ND	ND				ND	ND		
Charlie Creek East	6/13/2012 13:53	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Charlie Creek East	7/11/2012 18:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Charlie Creek East	10/17/2012 16:10	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Charlie Creek East	4/23/2013 11:30	ND	ND		ND	ND	ND		0.014	ND		ND	ND	ND		23	11
Charlie Creek East	6/25/2013 12:12	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		30	ND
Charlie Creek East	8/6/2013 16:25	0.11	ND		ND	ND	ND		0.21	ND		0.27	0.011	ND		26	ND
Charlie Creek East	10/23/2013 11:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		20	ND
Charlie Creek West	6/13/2012 15:49	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Charlie Creek West	7/11/2012 16:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Charlie Creek West	10/17/2012 14:23	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		20	12
Charlie Creek West	4/23/2013 9:52	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		41	12
Charlie Creek West	6/25/2013 10:24	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		20	5.7
Charlie Creek West	8/6/2013 14:56	0.012	ND		ND	ND	ND		0.02	ND		0.03	ND	ND		6.5	9.8
Charlie Creek West	10/23/2013 9:50	ND	ND		ND	ND	ND		ND	ND		0.01	0.012	ND		41	ND
Deer Creek Middle Fork	6/24/2014 19:41					ND				ND				ND		-2	3.5
Deer Creek Middle Fork	8/13/2014 9:06					ND				ND				ND	ND	4.2	7
Deer Creek Middle Fork	8/13/2014 9:06					ND				ND				ND	ND	5.6	7.8
Deer Creek Middle Fork	10/24/2014 8:20					ND				ND				ND	ND	-1	3.5
Deer Creek Middle Fork	4/29/2015 11:00					ND				ND				ND	ND	22.5	12.5
Deer Creek Middle Fork	4/29/2015 11:00					ND				ND				ND	ND	18	13.2
Deer Creek Middle Fork	6/19/2015 12:00									ND				ND	ND	9.6	5.8
Deer Creek Middle Fork	10/21/2015 9:58					ND				ND				ND	ND	9.2	10.9
Deer Creek Middle Fork	10/21/2015 10:08					ND				ND				ND	ND	24.9	11
Deer Creek	6/25/2014 8:11					ND				ND				ND		10.7	-1
Deer Creek	6/25/2014 8:11					ND				ND				ND		11.1	2.1
Deer Creek	8/13/2014 7:14					ND				ND				ND	ND	15.4	3.5
Deer Creek South Fork	10/24/2014 9:54					ND				ND				ND	ND	10.5	5.8
Deer Creek South Fork	10/24/2014 9:54					ND				ND				ND	ND	2.3	-3
Deer Creek South Fork	4/29/2015 12:15					ND				ND				ND	ND	27.3	9.2
Deer Creek South Fork	6/19/2015 14:02									ND				ND	ND	-1	10.2
Deer Creek South Fork	8/5/2015 13:24					ND				ND				ND	ND	46.4	-0.7
Deer Creek South Fork	10/21/2015 11:30	Red lettering indicates a detection in the associated blank sample															
Deer Creek South Fork	6/22/2016 16:56					ND				ND				ND	ND	45.2	12.3

			Organics														
Code	Station Name	Activity Start	Acenaphthene ug/l	Acenaphthylene ug/l	Anthracene ug/l	Benz[a]anthracene ug/l	Benzene ug/l	Benzo(b)fluoranthene ug/l	Benzo[a]pyrene ug/l	Benzo[ghi]perylene ug/l	Benzo[k]fluoranthene ug/l	C5-C8 Aliphatics ug/l	C9-C12 Aliphatics ug/l	Chrysene ug/l	Dibenz[a,h]anthracene ug/l	Ethylbenzene ug/l	Fluoranthene ug/l
M51FORMC04	Fourmile Creek	4/23/2013 16:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Fourmile Creek	6/25/2013 14:13	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Fourmile Creek	6/25/2013 14:13	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.015
	Fourmile Creek	10/23/2013 13:58	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Fourmile Creek	4/15/2014 15:00															
Y23FXEFC02	Fox Creek East Fork	4/29/2015 9:00					ND									ND	
	Fox Creek East Fork	6/18/2015 14:02					ND									ND	
	Fox Creek East Fork	8/5/2015 10:16					ND									ND	
	Fox Creek East Fork	10/21/2015 7:35					ND									ND	
	Fox Creek East Fork	6/22/2016 11:22					ND									ND	
	Fox Creek East Fork	6/22/2016 11:22					ND									ND	
	Fox Creek East Fork	8/24/2016 9:58					ND									ND	
	Fox Creek East Fork	10/5/2016 7:55					ND									ND	
	Fox Creek East Fork	10/5/2016 7:55					ND									ND	
Y27LBVRC13	Little Beaver Creek	4/22/2013 16:30	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Beaver Creek	6/24/2013 16:56	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Beaver Creek	8/5/2013 17:05	0.023	ND	0.02	ND	ND	ND	ND	ND	ND			0.015	ND	ND	0.022
	Little Beaver Creek	10/22/2013 13:40	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Beaver Creek	4/16/2014 16:00															
M42LBOXC05	Little Boxelder Creek	6/12/2012 14:38	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Boxelder Creek	7/10/2012 19:05	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Boxelder Creek	10/16/2012 9:20	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Little Boxelder Creek	4/23/2013 10:40				ND									ND		
	Little Boxelder Creek	4/23/2013 10:40				ND									ND		
	Little Boxelder Creek	6/17/2013 17:15				ND									ND		
	Little Boxelder Creek	8/18/2013 17:45				ND									ND		
	Little Boxelder Creek	10/7/2013 16:15				ND									ND		
	Little Boxelder Creek	4/14/2014 15:30															
M50MEDL01	Medicine Lake	4/28/2015 17:15														ND	
	Medicine Lake	6/18/2015 9:44					ND					ND	ND			ND	
	Medicine Lake	6/18/2015 10:01					ND					ND	ND			ND	
	Medicine Lake	8/4/2015 14:00					ND					ND	ND			ND	
	Medicine Lake	8/4/2015 14:12					ND					ND	ND			ND	
	Medicine Lake	10/20/2015 16:08					ND					ND	ND			ND	
	Medicine Lake	10/20/2015 16:18					ND					ND	ND			ND	
	Medicine Lake	6/23/2016 9:08					ND					ND	ND			ND	
	Medicine Lake	6/23/2016 9:08					ND					ND	ND			ND	
	Medicine Lake	8/23/2016 17:36					ND					ND	ND			ND	
	Medicine Lake	8/23/2016 17:36					ND					ND	ND			ND	
	Medicine Lake	10/4/2016 12:24					ND					ND	ND			ND	
	Medicine Lake	10/4/2016 12:24					ND					ND	ND			ND	
Y22PENELC02	Pennel Creek	4/22/2013 12:40	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Pennel Creek	6/24/2013 13:18	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Pennel Creek	8/5/2013 15:05	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Pennel Creek	10/22/2013 10:26	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Pennel Creek	4/16/2014 13:30															
Y22SNSTC04	Sandstone Creek	4/22/2013 14:15	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Sandstone Creek	6/24/2013 15:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Sandstone Creek	8/6/2013 8:40	0.049	0.042	0.03	ND	ND	ND	ND	ND	ND			ND	ND	ND	0.013
	Sandstone Creek	10/22/2013 11:51	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Sandstone Creek	4/16/2014 18:00															
M52ULDSP01	Ueland Road Spring	4/28/2015 14:45					ND									ND	
	Ueland Road Spring	8/4/2015 16:22					ND									ND	
	Ueland Road Spring	10/20/2015 13:46															
	Ueland Road Spring	8/23/2016 14:40					ND									ND	
	Ueland Road Spring	8/23/2016 14:40					ND									ND	
M39WHTWC09	Whitewater Creek	7/11/2012 10:00	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Whitewater Creek	10/16/2012 13:15	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Whitewater Creek	4/23/2013 15:15					ND									ND	

Station Name	Activity Start	Fluorene ug/l	Formaldehyde mg/l	Hydrocarbons, total purgeable	Indeno[1,2,3-cd] pyrene ug/l	m,p-Xylene ug/l	Methanol mg/l	Methyl tert-butyl ether ug/l	Naphthalene ug/l	o-Xylene ug/l	Petroleum hydrocarbons, total extractable ug/l	Phenanthrene ug/l	Pyrene ug/l	Toluene ug/l	Xylene ug/l	Radiochemistry Alpha particle pCi/L	Radiochemistry Beta particle pCi/L
Fourmile Creek	4/23/2013 16:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND			
Fourmile Creek	6/25/2013 14:13	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		24	7.5
Fourmile Creek	6/25/2013 14:13	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		31	7.8
Fourmile Creek	10/23/2013 13:58	ND	ND		ND	ND	ND		0.012	ND		ND	ND	ND		20	7.5
Fourmile Creek	4/15/2014 15:00															ND	ND
Fox Creek East Fork	4/29/2015 9:00					ND				ND				ND	ND		
Fox Creek East Fork	6/18/2015 14:02									ND				ND	ND	16.8	39.1
Fox Creek East Fork	8/5/2015 10:16					ND				ND				ND	ND	10.1	2.7
Fox Creek East Fork	10/21/2015 7:35					ND				ND				ND	ND	31.4	12.5
Fox Creek East Fork	6/22/2016 11:22					ND				ND				ND	ND	36.6	17.8
Fox Creek East Fork	6/22/2016 11:22					ND				ND				ND	ND	6.2	-4
Fox Creek East Fork	8/24/2016 9:58					ND				ND				ND	ND	-3	-2
Fox Creek East Fork	10/5/2016 7:55					ND				ND				ND	ND	18.8	43.4
Fox Creek East Fork	10/5/2016 7:55					ND				ND				ND	ND	7.5	24.7
Little Beaver Creek	4/22/2013 16:30	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		2	28.9
Little Beaver Creek	6/24/2013 16:56	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		15	ND
Little Beaver Creek	8/5/2013 17:05	0.094	ND		ND	ND	ND		0.086	ND		0.29	0.02	ND		12	5.1
Little Beaver Creek	10/22/2013 13:40	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		4.2	6.8
Little Beaver Creek	4/16/2014 16:00															6.8	5.7
Little Boxelder Creek	6/12/2012 14:38	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND			
Little Boxelder Creek	7/10/2012 19:05	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		2.8	4.4
Little Boxelder Creek	10/16/2012 9:20	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	ND
Little Boxelder Creek	4/23/2013 10:40		ND			ND	ND			ND				ND		2.5	4.6
Little Boxelder Creek	4/23/2013 10:40		ND			ND	ND			ND				ND		1.8	4.8
Little Boxelder Creek	6/17/2013 17:15		ND			ND	ND			ND				ND		3.6	ND
Little Boxelder Creek	8/18/2013 17:45					ND	ND			ND				ND		5.9	5.5
Little Boxelder Creek	10/7/2013 16:15		ND			ND	1.5			ND				ND		6.3	3.1
Little Boxelder Creek	4/14/2014 15:30															3.3	7.4
Medicine Lake	4/28/2015 17:15					ND				ND				ND	ND		
Medicine Lake	6/18/2015 9:44							ND	ND	ND	ND			ND	ND	11.3	17.4
Medicine Lake	6/18/2015 10:01							ND	ND	ND	ND			ND	ND	2.5	25.9
Medicine Lake	8/4/2015 14:00					ND		ND	ND	ND	ND			ND	ND	10.3	24
Medicine Lake	8/4/2015 14:12					ND		ND	ND	ND	ND			ND	ND	12.1	21.8
Medicine Lake	10/20/2015 16:08					ND		ND	ND	ND	ND			ND	ND	21.1	21.7
Medicine Lake	10/20/2015 16:18					ND		ND	ND	ND	ND			ND	ND	13.9	24.6
Medicine Lake	6/23/2016 9:08			ND		ND		ND	ND	ND	321			ND	ND	15	22.4
Medicine Lake	6/23/2016 9:08			ND		ND		ND	ND	ND	ND			ND	ND	7.6	25.5
Medicine Lake	8/23/2016 17:36			ND		ND		ND	ND	ND	ND			ND	ND	14.8	26.6
Medicine Lake	8/23/2016 17:36			ND		ND		ND	ND	ND	ND			ND	ND	-0.9	14.9
Medicine Lake	10/4/2016 12:24			ND		ND		ND	ND	ND	ND			ND	ND	4	24.9
Medicine Lake	10/4/2016 12:24			ND		ND		ND	ND	ND	ND			ND	ND	5.6	20.5
Pennel Creek	4/22/2013 12:40	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		2.7	18.1
Pennel Creek	6/24/2013 13:18	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		39	ND
Pennel Creek	8/5/2013 15:05	0.024	ND		ND	ND	ND		0.035	ND		0.057	ND	ND		25	11
Pennel Creek	10/22/2013 10:26	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		ND	14
Pennel Creek	4/16/2014 13:30															12	12
Sandstone Creek	4/22/2013 14:15	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND			
Sandstone Creek	6/24/2013 15:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		26	ND
Sandstone Creek	8/6/2013 8:40	0.07	ND		ND	ND	ND		0.066	ND		0.091	0.012	ND		7.7	8.5
Sandstone Creek	10/22/2013 11:51	ND	ND		ND	ND	ND		0.01	ND		ND	ND	ND		6.2	8.3
Sandstone Creek	4/16/2014 18:00															ND	ND
Ueland Road Spring	4/28/2015 14:45					ND				ND				ND	ND		
Ueland Road Spring	8/4/2015 16:22					ND				ND				ND	ND	91.5	82.2
Ueland Road Spring	10/20/2015 13:46	Red lettering indicates a detection in the associated blank sample														114	78
Ueland Road Spring	8/23/2016 14:40					ND				ND				ND	ND		
Ueland Road Spring	8/23/2016 14:40					ND				ND				ND	ND	91	182
Whitewater Creek	7/11/2012 10:00	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		243	22.6
Whitewater Creek	10/16/2012 13:15	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		6.3	9
Whitewater Creek	4/23/2013 15:15		ND			ND	ND			ND				ND		ND	ND

			Organics														
Code	Station Name	Activity Start	Acenaphthene ug/l	Acenaphthylene ug/l	Anthracene ug/l	Benz[a]anthracene ug/l	Benzene ug/l	Benzo(b)fluoranthene ug/l	Benzo[a]pyrene ug/l	Benzo[ghi]perylene ug/l	Benzo[k]fluoranthene ug/l	C5-C8 Aliphatics ug/l	C9-C12 Aliphatics ug/l	Chrysene ug/l	Dibenz[a,h]anthracene ug/l	Ethylbenzene ug/l	Fluoranthene ug/l
	Whitewater Creek	6/18/2013 11:20															
	Whitewater Creek	6/18/2013 11:30					ND									ND	
	Whitewater Creek	8/19/2013 11:30					ND									ND	
	Whitewater Creek	10/8/2013 10:45					ND									ND	
	Whitewater Creek	4/14/2014 19:00															
	Whitewater Creek	10/19/2015 15:46					ND									ND	
M39WHTWC10	Whitewater Creek	6/12/2012 18:33	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
M17WILOC03	Willow Creek	4/22/2013 18:20					ND									ND	
	Willow Creek	6/17/2013 13:30					ND									ND	
	Willow Creek	6/17/2013 13:30					ND									ND	
	Willow Creek	8/18/2013 13:55					ND									ND	
	Willow Creek	8/18/2013 13:55					ND									ND	
	Willow Creek	10/7/2013 12:50					ND									ND	
	Willow Creek	10/7/2013 13:00					ND									ND	
M17WILOC02	Willow Creek	6/12/2012 10:45					ND									ND	
	Willow Creek	6/18/2012 11:23	ND	ND	ND	ND		ND	ND	ND	ND			ND	ND		ND
	Willow Creek	6/18/2012 11:25	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Willow Creek	7/10/2012 15:50	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Willow Creek	10/15/2012 16:37	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND
	Willow Creek	8/11/2014 10:45															

Station Name	Activity Start	Fluorene ug/l	Formaldehyde mg/l	Hydrocarbons, total purgeable	Indeno[1,2,3-cd] pyrene ug/l	m,p-Xylene ug/l	Methanol mg/l	Methyl tert-butyl ether ug/l	Naphthalene ug/l	o-Xylene ug/l	Petroleum hydrocarbons, total extractable ug/l	Phenanthrene ug/l	Pyrene ug/l	Toluene ug/l	Xylene ug/l	Radiochemistry Alpha particle pCi/L	Radiochemistry Beta particle pCi/L
Whitewater Creek	6/18/2013 11:20															ND	11
Whitewater Creek	6/18/2013 11:30		ND			ND	ND			ND				ND			
Whitewater Creek	8/19/2013 11:30		ND			ND	ND			ND				ND		ND	6.6
Whitewater Creek	10/8/2013 10:45		ND			ND	ND			ND				ND		26	ND
Whitewater Creek	4/14/2014 19:00															ND	13
Whitewater Creek	10/19/2015 15:46					ND				ND				ND	ND		
Whitewater Creek	6/12/2012 18:33	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND			
Willow Creek	4/22/2013 18:20		ND			ND	ND			ND				ND		ND	ND
Willow Creek	6/17/2013 13:30		ND			ND	ND			ND				ND		4.1	5.6
Willow Creek	6/17/2013 13:30		ND			ND	ND			ND				ND		ND	ND
Willow Creek	8/18/2013 13:55		ND			ND	ND			ND				ND		6.8	ND
Willow Creek	8/18/2013 13:55		ND			ND	ND			ND				ND		41	ND
Willow Creek	10/7/2013 12:50		ND			ND	ND			ND				ND		11	13
Willow Creek	10/7/2013 13:00		ND			ND	9.6			ND				ND		ND	ND
Willow Creek	6/12/2012 10:45		ND			ND	ND			ND				ND		ND	ND
Willow Creek	6/18/2012 11:23	ND			ND				ND			ND	ND			ND	ND
Willow Creek	6/18/2012 11:25	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND			
Willow Creek	7/10/2012 15:50	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		9.6	ND
Willow Creek	10/15/2012 16:37	ND	ND		ND	ND	ND		ND	ND		ND	ND	ND		13	ND
Willow Creek	8/11/2014 10:45	Red lettering indicates a detection in the associated blank sample														ND	ND

Appendix E2. Summary of detections of organic results: surface water

Station Name	Activity Start	Acenaphthene ug/l	Acenaphthylene ug/l	Anthracene ug/l	Chrysene ug/l	Fluoranthene ug/l	Fluorene ug/l	Methanol mg/l	Naphthalene ug/l	Petroleum hydrocarbons, total extractable ug/l	Phenanthrene ug/l	Pyrene ug/l
Bennie Peer Creek	8/7/13	0.033	0.016	0.014		0.01	0.052		0.083		0.079	
Bennie Peer Creek	8/7/13	0.023					0.034		0.052		0.052	
Big Muddy Creek	4/23/13								0.092			
Big Muddy Creek	4/23/13								0.043			
Big Muddy Creek	8/6/13	0.013					0.034		0.045		0.088	
Cabin Creek	8/5/13	0.1	0.09	0.056	0.021	0.032	0.15		0.11		0.26	0.029
Cedar Creek	10/21/13	0.023					0.022		0.044		0.022	
Charlie Creek East	4/23/13								0.014			
Charlie Creek East	8/6/13	0.06	0.011	0.018		0.01	0.11		0.21		0.27	0.011
Charlie Creek West	8/6/13						0.012		0.02		0.03	
Charlie Creek West	10/23/13					0.016					0.01	0.012
Fourmile Creek	6/25/13					0.015						
Fourmile Creek	10/23/13								0.012			
Little Beaver Creek	8/5/13	0.023		0.02	0.015	0.022	0.094		0.086		0.29	0.02
Little Boxelder Creek	10/7/13							1.5				
Medicine Lake	6/23/16									321 (dup ND)		
Pennel Creek	8/5/13						0.024		0.035		0.057	
Sandstone Creek	8/6/13	0.049	0.042	0.03		0.013	0.07		0.066		0.091	0.012
Sandstone Creek	10/22/13								0.01			
Willow Creek	10/7/13							9.6				

Red lettering indicates a detection in the affiliated blank sample

All detections occurred in 2013 except Medicine Lake - ML is a duplicate, no detection on duplicate and no detection on any of the other samples

Outside of blank contaminated samples, no analytes were detected in more than one sample from the same site.

Blank Summary				
Big Muddy Creek at Hwy 2 crossing at USGS gage	4/23/2013 13:30	Acenaphthylene~~Total	0.011	ug/l
Big Muddy Creek at Hwy 2 crossing at USGS gage	4/23/2013 13:30	Naphthalene~~Total	0.021	ug/l
Bennie Peer Creek at Hwy 23 crossing	6/25/2013 16:30	Naphthalene~~Total	0.012	ug/l
Bennie Peer Creek at Hwy 23 crossing	8/7/2013 7:15	Fluorene~~Total	0.016	ug/l
Bennie Peer Creek at Hwy 23 crossing	8/7/2013 7:15	Naphthalene~~Total	0.025	ug/l
Bennie Peer Creek at Hwy 23 crossing	8/7/2013 7:15	Phenanthrene~~Total	0.045	ug/l
Bennie Peer Creek at Hwy 23 crossing	10/23/2013 16:00	Naphthalene~~Total	0.012	ug/l

Field notes	* visual identifications do not correspond to detectable organic consituents.
Cedar Creek on BLM la	10/24/2014 12:15 Only Transect F. Site has significant sheen on surface downstream of bridge. Sheen gasoline-ish odor. Not present upstream of bridge. Seems to be coming from ~35 feet downstream of bridge where stream becomes deeper. Added BTEX to sampling parameters. - D
Sandstone Creek just b	10/22/2013 11:51 Only Transect F. Construction along side road, upstream of site, approximately 50 yards from creek.
Whitewater Creek at H	10/19/2015 15:46 Only transect F. Noticed gasoline/oil sheen, decided to add BTEX to this site.

Appendix E3. Methane and organic carbon: surface water

Site ID	Station Name	Activity Date	Methane (mg/L)	Organic carbon (mg/L)
Y23BENPC03	Bennie Peer Creek	4/23/13	0.001	20.6
		6/25/13	0.002	23.3
		8/7/13	0.004	21.6
		8/7/13	0.004	22.8
		10/23/13	0.002	18.3
		4/15/14	0.002	19.4
		6/24/14	0.006	21.1
		8/12/14	0.007	22.2
		10/23/14	0.001	16.9
M50BMDYC11	Big Muddy Creek	7/12/12	0.004	13.9
		7/12/12	0.005	
		10/17/12	0.001	33.7
		10/17/12	0.001	34.9
		4/23/13	ND	14.9
		4/23/13	ND	16.3
		6/25/13	0.002	21.6
		8/6/13	0.003	22.4
		10/23/13	0.001	17.9
		4/15/14	0.002	19.1
		6/24/14	0.002	20.6
		8/12/14	0.007	25.1
		10/23/14	ND	17.6
		4/28/15	ND	
		6/17/15	0.001	
		8/4/15	0.005	
		10/20/15	0.003	
		6/21/16	0.002	
		8/23/16	0.001	
		10/4/16	0.002	
M50BMDYC12	Big Muddy Creek	6/13/12	0.003	26.7
Y23CABNC08	Cabin Creek	4/22/13	0.001	25
		6/24/13	ND	11.7
		8/5/13	0.001	9.93
		10/22/13	ND	12.6
		4/16/14	ND	13.6
		6/25/14	0.001	14.8
		8/13/14	0.002	14
		10/24/14	ND	12.4
		4/29/15	ND	
		6/18/15	0.001	
		8/6/15	0.003	
		10/21/15	ND	
		6/23/16	ND	
		8/25/16	0.001	
		10/5/16	ND	

Site ID	Station Name	Activity Date	Methane (mg/L)	Organic carbon (mg/L)
Y23CEDRC04	Cedar Creek	4/22/13	ND	9.41
		6/24/13	ND	18.3
		8/5/13	0.002	14.5
		10/21/13	ND	13
		10/21/13	ND	12.2
		4/16/14	ND	12.2
		4/16/14	ND	12.1
		6/25/14	ND	12.5
		8/13/14	0.008	12.8
		10/24/14	ND	9
		4/30/15	ND	
		6/19/15	ND	
		8/5/15	0.004	
		10/21/15	0.003	
		6/22/16	ND	
		8/24/16	ND	
		10/5/16	ND	
M51CHLYC04	Charlie Creek East	6/13/12	0.003	30
		7/11/12	0.004	15.2
		10/17/12	0.001	41.6
		4/23/13	ND	16.6
		6/25/13	0.002	22.5
		8/6/13	0.002	22
		10/23/13	0.004	19.8
		4/15/14	0.005	20
		6/24/14	0.004	21.4
		8/12/14	0.023	34.8
		10/23/14	0.01	22.7
		4/28/15	0.001	
		6/17/15	0.002	
		8/4/15	0.005	
		10/20/15	0.005	
		6/21/16	0.006	
		8/23/16	0.004	
		10/4/16	0.003	
M17WILOC04	Willow Creek	4/14/14	ND	16.9
		6/23/14	0.001	16.1
		10/22/14	0.003	22.1
		4/27/15	ND	
		6/16/15	0.003	
		8/3/15	0.004	
		10/19/15	0.009	
		6/20/16	0.001	
		8/22/16	0.001	
		10/3/16	0.004	

Site ID	Station Name	Activity Date	Methane (mg/L)	Organic carbon (mg/L)
M51CHLYC05	Charlie Creek West	6/13/12	0.005	23.3
		7/11/12	0.004	16.9
		10/17/12	0.001	18.6
		4/23/13	ND	16.4
		6/25/13	ND	23
		8/6/13	0.001	22.3
		10/23/13	ND	21
		4/15/14	0.001	18.5
		6/24/14	0.002	20.9
		8/12/14	0.023	20.6
		10/23/14	0.001	22.7
		4/28/15	ND	
		6/17/15	0.001	
		8/4/15	0.005	
		10/20/15	0.003	
		6/21/16	0.002	
		8/23/16	0.011	
		10/4/16	0.001	
Y23DRMFC01	Deer Creek Middle Fork	6/24/14	0.002	19.9
		8/13/14	0.005	29.9
		8/13/14	0.005	28.8
		10/24/14	0.002	15.3
		4/29/15	ND	
		4/29/15	ND	
		6/19/15	0.003	
		8/5/15		
		10/21/15	0.002	
		10/21/15	0.002	
		6/22/16		
		8/24/16		
Y23DEERC0	Deer Creek	6/25/14	0.001	17.8
		6/25/14	0.001	18
		8/13/14	0.003	9.2
		10/24/14	0.006	22.2
Y23DRSFC01	Deer Creek	10/24/14	0.007	22
		4/29/15	ND	
		6/19/15	0.008	
		8/5/15	0.039	
		10/21/15		
		6/22/16	0.013	
		8/24/16		
		10/5/16		
M17WILOC02	Willow Creek	6/12/12	0.002	16.2
		6/18/12		
		6/18/12	0.002	
		7/10/12	0.002	15.6
		10/15/12	0.002	39.3
		8/11/14	0.004	38

Site ID	Station Name	Activity Date	Methane (mg/L)	Organic carbon (mg/L)
M51FORMC04	Fourmile Creek	4/23/13	0.001	16.6
		6/25/13	0.003	24.8
		6/25/13	0.003	24.7
		10/23/13	0.004	19.3
		4/15/14	0.008	21.7
		6/24/14	0.003	20.2
		8/12/14	0.024	56.2
		10/23/14	0.009	22.2
		4/28/15	0.001	
		4/28/15	0.001	
		6/17/15	0.004	
		8/5/15	0.032	
		10/20/15	0.002	
		6/22/16	0.01	
		8/24/16	0.004	
		10/4/16	0.003	
Y23FXEFC01	Fox Creek East Fork	10/23/14	0.003	42.9
Y23FXEFC02	Fox Creek East Fork	4/29/15	ND	
		6/18/15	0.002	
		8/5/15	0.021	
		10/21/15	0.006	
		6/22/16	0.008	
		6/22/16	0.007	
		8/24/16	0.036	
		10/5/16	0.016	
		10/5/16	0.013	
Y27LBVRC13	Little Beaver Creek	4/22/13	ND	12.4
		6/24/13	ND	14.2
		8/5/13	0.002	10.2
		10/22/13	ND	12.4
		4/16/14	0.001	13.4
		6/25/14	0.002	15.5
		8/13/14	0.004	6.4
		10/24/14	ND	5.9
		4/29/15	ND	
		8/6/15	0.005	
		10/21/15	0.002	
		6/23/16	0.004	
		8/25/16	0.003	
		10/6/16	0.001	

Site ID	Station Name	Activity Date	Methane (mg/L)	Organic carbon (mg/L)
M42LBOXC05	Little Boxelder Creek	6/12/12	0.003	6.76
		7/10/12	0.003	5.71
		10/16/12	0.002	7.4
		4/23/13	ND	10.2
		4/23/13	ND	10.1
		6/17/13	0.002	10.2
		8/18/13	0.002	13.8
		10/7/13	0.002	11.6
		4/14/14	0.001	8.9
		6/23/14	0.003	7.86
		8/11/14	0.006	9.8
		10/22/14	0.002	7.6
		4/27/15	0.001	
		6/16/15	0.003	
		6/16/15	0.003	
		8/3/15	0.004	
		8/3/15	0.003	
		10/19/15	0.003	
		6/20/16	0.003	
		8/22/16	ND	
		10/3/16	0.004	
M50MEDL01	Medicine Lake	4/28/15	ND	
		6/18/15	ND	
		6/18/15	ND	
		8/4/15	ND	
		8/4/15	0.001	
		10/20/15	ND	
		10/20/15	ND	
		6/23/16	ND	
		6/23/16	ND	
		8/23/16	0.001	
		8/23/16	0.001	
		10/4/16	ND	
		10/4/16	ND	
Y22PENELC02	Pennel Creek	4/22/13	ND	12.7
		6/24/13	ND	10.8
		8/5/13	0.001	13.7
		10/22/13	ND	14.8
		4/16/14	ND	15.5
		6/25/14	0.002	16.7
		8/13/14	0.003	14.6
		10/24/14	ND	11.2
		4/29/15	ND	
		6/18/15	0.001	
		8/6/15	0.007	
		10/21/15	0.002	
		6/23/16	0.002	
		8/25/16	0.01	
		10/5/16	0.002	
Y22SNSTC04	Sandstone Creek	4/22/13	0.001	16
		6/24/13	0.001	10.6
		8/6/13	0.002	13.5
		10/22/13	0.001	12.5
		4/16/14	0.001	14.2
		6/25/14	0.005	17.7
		8/13/14	0.006	14.1
		10/24/14	ND	18
		4/29/15	ND	
		6/19/15	0.002	
		8/6/15	0.005	
		10/22/15	0.002	
		6/24/16	0.019	
		8/25/16	0.015	
		10/6/16	0.003	
M52ULDSP01	Ueland Road Spring	4/28/15	ND	
		8/4/15	0.001	
		10/20/15	0.001	
		8/23/16	ND	
		8/23/16	ND	
M39WHTWC09	Whitewater Creek	7/11/12	0.009	11.4
		10/16/12	0.009	27.8
		4/23/13	0.001	15.5
		6/18/13		
		6/18/13	0.022	14.5
		8/19/13	0.011	25.9
		10/8/13	0.007	23.2
		4/14/14	0.005	14.9
		6/23/14	0.005	16
		8/11/14	0.004	39.7
		10/22/14	0.004	13.4
		4/27/15	0.003	
		6/16/15	0.003	
		8/3/15	0.004	
		10/19/15	0.03	
		6/20/16	0.012	
		8/22/16	0.008	
		10/3/16	0.006	
M39WHTWC10	Whitewater Creek	6/12/12	0.004	20.3
M17WILOC03	Willow Creek	4/22/13	0.001	18.4
		6/17/13	ND	20.7
		6/17/13	ND	20.7
		8/18/13	0.004	23.2
		8/18/13	0.006	23.6
		10/7/13	0.003	21.2
		10/7/13	0.003	21

F. Organic and radiochemistry results: Groundwater

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
	2015 Sampling												
2926	5/13/2015 17:42	12.1	34.6	13.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
3232	6/16/2015 15:45	4.7	-4	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
3233	5/14/2015 15:00	6.0	6.5	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
3483	7/7/2015 14:08	3.1	0.3	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
3766	8/31/2015 14:20	42	1.0	5.2	ND	19	ND	ND	ND	ND	ND	ND	ND
3767	8/3/2015 17:03	23	3.0	1.3	ND	21	ND	ND	1.2	ND	ND	ND	ND
3858	8/30/2015 18:49	2.6	0.7	4.0	18	23	ND	ND	7.9	ND	ND	ND	ND
3869	8/31/2015 12:15	1.8	1.6	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
3871	8/30/2015 20:41	2.2	0.6	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
3872	8/30/2015 21:04	12	31.1	16.5	55	57	ND	ND	32	ND	0.89	ND	0.89
3947	8/30/2015 16:22	6.6	0.3	10.8	40	45	ND	ND	22	ND	ND	ND	ND
3947-D	8/30/2015 16:22	6.9	0.7	8.6	35	39	ND	ND	20	ND	ND	ND	ND
16570	4/15/2015 9:45	1.3	22.0	9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
19127	4/14/2015 15:05	2.7	18.5	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
20506	10/8/2015 12:41	5.1	0.3	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
20590	4/13/2015 17:36	2.6	0.7	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
20600	4/13/2015 12:52	3.9	3.0	9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
21998	4/16/2015 17:44	7.4	38.1	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
22003	10/6/2015 13:33	3.4	0.7	-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
22005	4/15/2015 13:50	2.9	4.9	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
22015	4/14/2015 18:05	3.5	7.2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
22016	10/8/2015 10:13	4.0	0.7	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
22044	4/16/2015 15:48	1.7	15.6	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
23666	4/16/2015 11:15	2.6	8.7	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
26318	5/18/2015 14:12	2.5	1.3	-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
27743	5/18/2015 17:32	1.3	4.3	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
27857	5/11/2015 12:50	3.4	3.9	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
29237	5/11/2015 15:41	0.6	7.8	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
35876	5/20/2015 12:02	3.9	-2	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
35876-D	5/20/2015 12:02	3.9	-2	-0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
35881	6/16/2015 9:17	3.4	5.2	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene *ug/L*	C9 to C10 Aromatics *ug/L*	C5 to C8 Aliphatics *ug/L*	C9 to C12 Aliphatics *ug/L*	Aromatic (C11-C22) (ug/L) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Diesel Range Organics (DRO) *mg/L*	Total Extractable Hydrocarbons *mg/L*	Methane *mg/L*	Ethane *mg/L*	Ethene *mg/L*
2926	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
3232	ND	ND	ND	ND		ND	ND	ND	0.100	ND	ND
3233	ND	ND	ND	ND		ND	ND	ND	0.0049	ND	ND
3483	ND	ND	ND	ND		ND	ND	ND	4.7	0.0011	ND
3766	ND	ND	ND	ND		ND	0.92	1.8	0.0062	ND	ND
3767	ND	ND	ND	20		28	0.97	1.7	0.0016	ND	0.0013
3858	ND	ND	11	ND		18	0.32	1.3	0.0069	ND	ND
3869	ND	ND	ND	ND		ND	ND	0.51	ND	ND	ND
3871	ND	ND	ND	ND		ND	ND	0.72	ND	ND	ND
3872	ND	ND	36	ND		56	ND	0.46	ND	ND	ND
3947	ND	ND	29	ND		48	0.41	0.87	0.0057	ND	ND
3947-D	ND	ND	24	ND		39	0.47	1.3	0.0072	ND	ND
16570	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
19127	ND	ND	ND	ND		ND	ND	ND	0.0056	ND	ND
20506	ND	ND	ND	ND		ND	ND	ND	0.0014	ND	ND
20590	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
20600	ND	ND	ND	ND		ND	ND	ND	0.0016	ND	ND
21998	ND	ND	ND	ND		ND	ND	ND	0.16	ND	ND
22003	ND	ND	ND	ND		ND	ND	ND	0.011	ND	ND
22005	ND	ND	ND	ND		ND	ND	ND	0.016	ND	ND
22015	ND	ND	ND	ND		ND	ND	ND	0.0042	ND	ND
22016	ND	ND	ND	ND		ND	ND	ND	0.0016	ND	ND
22044	ND	ND	ND	ND		ND	ND	ND	0.0017	ND	ND
23666	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
26318	ND	ND	ND	ND		ND	ND	ND	0.014	ND	ND
27743	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
27857	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
29237	ND	ND	ND	ND		ND	ND	ND	0.0063	ND	ND
35876	ND	ND	ND	ND		ND	ND	ND	1.1	0.0021	ND
35876-D	ND	ND	ND	ND		ND	ND	ND	1.4	0.0029	ND
35881	ND	ND	ND	ND		ND	ND	ND	0.0015	ND	ND

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
35945	8/17/2015 18:03	5.8	2.8	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
35945-D	8/17/2015 18:03	5.5	2.5	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
35949	5/21/2015 10:26	3.6	6.1	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
36466	5/13/2015 16:02	3.9	0.2	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
36572	7/6/2015 19:55	4.2	8.4	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
36572-D	7/6/2015 19:55	4.1	3.9	-0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
36693	5/13/2015 13:12	3.5	8.1	11.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
36693-D	5/13/2015 13:12	3.4	2.8	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
37319	7/7/2015 11:43	2.6	24.3	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
38750	6/15/2015 20:15	4.2	2.0	-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
38755	5/14/2015 17:32	3.1	3.7	-0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
39482	9/14/2015 12:30	5.1	6.6	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
40257	9/1/2015 12:03	3.3	13.5	4.9	22	26	ND	ND	8.7	ND	1.3	0.57	1.9
40259	8/20/2015 9:39	3.0	6.7	12.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
40296	6/17/2015 13:30	0.9	6.3	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
40297	6/17/2015 10:52	3.6	3.0	0.3	20	22	ND	ND	ND	ND	ND	ND	ND
41327	9/14/2015 10:08	4.4	3.7	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
42634	8/4/2015 11:19	6.1	4.8	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
43095	8/18/2015 8:15	8	1.6	-3	ND	ND	ND	ND	1.7	ND	ND	ND	ND
79510	8/5/2015 9:32	4.2	-3	-0.2	ND	ND	ND	ND	0.58	ND	ND	ND	ND
79510-D	8/5/2015 9:32	4.1	-3	-9	ND	ND	ND	ND	0.50	ND	ND	ND	ND
121101	5/19/2015 17:10	5.3	12.2	17.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
121774	9/15/2015 14:25	3.7	1.2	10.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
123789	4/14/2015 11:47	4.6	-0.2	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
123789-D	4/14/2015 11:47	-	-2	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND
130084	10/6/2015 16:13	5.2	0.08	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
130084-D	10/6/2015 16:13	4.9	6.8	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
134414	10/6/2015 11:18	3.8	3.3	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene ug/L	C9 to C10 Aromatics ug/L	C5 to C8 Aliphatics ug/L	C9 to C12 Aliphatics ug/L	Aromatic (C11-C22) (ug/L) ug/L	Total Purgeable Hydrocarbons ug/L	Diesel Range Organics (DRO) mg/L	Total Extractable Hydrocarbons mg/L	Methane mg/L	Ethane mg/L	Ethene mg/L
35945	ND	ND	ND	ND		ND	ND	ND	1.5	0.0011	ND
35945-D	ND	ND	ND	ND		ND	ND	ND	3.8	0.0017	ND
35949	ND	ND	ND	ND		ND	ND	ND	1.5	0.0043	ND
36466	ND	ND	ND	ND		ND	ND	ND	0.0029	ND	ND
36572	ND	ND	ND	ND		ND	ND	ND	0.0053	ND	ND
36572-D	ND	ND	ND	ND		ND	ND	ND	0.0057	ND	ND
36693	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
36693-D	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
37319	ND	ND	ND	ND		ND	ND	ND	1.4	ND	ND
38750	ND	ND	ND	ND		ND	ND	0.34	8.9	0.0056	ND
38755	ND	ND	ND	ND		ND	ND	ND	7.7	0.0019	ND
39482	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
40257	ND	ND	12	ND		22	ND	0.82	0.23	ND	ND
40259	ND	ND	ND	ND		ND	ND	ND	0.0011	ND	ND
40296	ND	ND	ND	ND		ND	ND	ND	0.011	ND	ND
40297	ND	ND	21	ND		18	ND	ND	ND	ND	ND
41327	ND	ND	ND	ND		ND	ND	ND	0.0061	ND	ND
42634	ND	ND	ND	ND		ND	ND	ND	0.0062	ND	ND
43095	ND	ND	ND	ND		ND	0.63	0.86	21	0.0042	ND
79510	ND	ND	ND	ND		ND	ND	ND	4.9	0.0088	ND
79510-D	ND	ND	ND	ND		ND	ND	ND	1.6	0.0071	ND
121101	ND	ND	ND	ND		ND	ND	ND	0.0023	ND	ND
121774	ND	ND	ND	ND		ND	ND	ND	0.0022	ND	ND
123789	ND	ND	ND	ND		ND	ND	0.31	0.0012	ND	ND
123789-D	ND	ND	ND	ND		ND	ND	ND	0.0011	ND	ND
130084	ND	ND	ND	ND		ND	ND	ND	0.10	ND	ND
130084-D	ND	ND	ND	ND		ND	ND	ND	0.15	ND	ND
134414	ND	ND	ND	ND		ND	ND	ND	0.010	ND	ND

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
136651	9/15/2015 12:11	3.1	6.6	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
139756	10/7/2015 16:10	2.5	2.7	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
142083	5/14/2015 10:43	4.5	4.9	-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
142679	5/20/2015 15:24	3.6	-0.3	-2	ND	ND	ND	ND	ND	ND	ND	ND	ND
150013	10/7/2015 15:02	2.0	2.0	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
151342	6/15/2015 16:30	2.9	4.9	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
151342-D	6/15/2015 16:30	2.8	8.7	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
152601	5/19/2015 15:23	2.8	-0.5	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
153570	9/15/2015 15:17	4.0	4.0	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
154904	9/14/2015 18:08	3.9	2.8	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
157676	7/8/2015 16:47	5.3	-9	-6	ND	ND	ND	ND	ND	ND	ND	ND	ND
162134	10/6/2015 9:59	4.2	7.0	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
183854	4/13/2015 15:00	2.9	6.0	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
185569	7/6/2015 17:02	4.2	-3	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
186354	6/15/2015 13:22	0.9	6.2	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
191235	8/18/2015 18:30	3.6	3.9	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
195335	8/18/2015 14:05	1.7	4.1	5.0	ND	ND	ND	ND	ND	ND	0.76	ND	0.76
196628	10/6/2015 12:30	3.0	-0.3	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
204658	10/8/2015 16:32	3.5	2.9	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
206201	8/4/2015 9:45	6.0	16.5	10.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
206406	8/20/2015 7:46	6.9	3.7	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
221574	8/5/2015 16:23	5.5	129	3.5	47	53	ND	21	ND	2.6	ND	ND	ND
221691	8/19/2015 19:32	91	282	471	50	75	ND	ND	ND	ND	ND	ND	ND
221722	8/5/2015 18:41	3.6	156	27.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
222411	7/8/2015 13:25	2.5	7.3	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
230563	8/31/2015 22:10	12.2	40.8	19.5	31	33	ND	ND	0.49	ND	ND	ND	ND
231796	5/18/2015 19:18	3.9	14.2	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
236187	6/16/2015 12:30	3.0	15.5	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
237042	4/14/2015 8:14	2.7	2.1	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
238253	5/19/2015 14:02	4.9	4.7	-0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
239610	8/31/2015 17:42	4.5	-0.4	5.5	31	38	ND	ND	14	ND	0.73	ND	0.73
239702	9/15/2015 17:06	3.4	0.6	4.2	ND	ND	ND	ND	0.52	ND	ND	ND	ND
249699	6/17/2015 15:57	3.3	13.6	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene ug/L	C9 to C10 Aromatics ug/L	C5 to C8 Aliphatics ug/L	C9 to C12 Aliphatics ug/L	Aromatic (C11-C22) (ug/L) ug/L	Total Purgeable Hydrocarbons ug/L	Diesel Range Organics (DRO) mg/L	Total Extractable Hydrocarbons mg/L	Methane mg/L	Ethane mg/L	Ethene mg/L
136651	ND	ND	ND	ND		ND	ND	0.59	ND	ND	ND
139756	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
142083	ND	ND	ND	ND		ND	ND	ND	0.0018	ND	ND
142679	ND	ND	ND	ND		ND	ND	ND	1.1	0.0027	ND
150013	ND	ND	ND	ND		ND	ND	ND	0.012	ND	ND
151342	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
151342-D	ND	ND	ND	ND		ND	ND	ND	0.00087	ND	ND
152601	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
153570	ND	ND	ND	ND		ND	ND	ND	0.0017	ND	ND
154904	ND	ND	ND	ND		ND	ND	ND	18	0.0043	ND
157676	ND	ND	ND	ND		ND	ND	ND	0.0043	ND	ND
162134	ND	ND	ND	ND		ND	ND	ND	0.0081	ND	ND
183854	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
185569	ND	ND	ND	ND		ND	ND	ND	0.0019	ND	ND
186354	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
191235	ND	ND	ND	ND		ND	ND	0.33	0.0065	ND	ND
195335	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
196628	ND	ND	ND	ND		ND	ND	ND	0.018	ND	ND
204658	ND	ND	ND	ND		ND	ND	ND	0.0030	ND	ND
206201	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
206406	ND	ND	ND	ND		ND	ND	ND	0.0025	ND	ND
221574	ND	ND	27	ND		46	2.7	4.0	0.031	0.0016	ND
221691	ND	ND	61	ND		52	0.73	21	0.047	ND	ND
221722	ND	ND	ND	ND		ND	0.53	1.1	ND	ND	ND
222411	ND	ND	ND	ND		ND	ND	ND	0.0066	ND	ND
230563	ND	ND	40	ND		31	ND	0.63	0.0023	ND	ND
231796	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
236187	ND	ND	ND	ND		ND	ND	ND	0.010	ND	ND
237042	ND	ND	ND	ND		ND	ND	ND	0.0031	ND	ND
238253	ND	ND	ND	ND		ND	ND	ND	0.011	ND	ND
239610	ND	ND	16	ND		28	ND	1.9	0.0012	ND	ND
239702	ND	ND	ND	ND		ND	ND	ND	0.0015	ND	ND
249699	ND	ND	ND	ND		ND	ND	ND	0.0020	ND	ND

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
262046	9/15/2015 9:32	4.2	8.8	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
262050	9/2/2015 10:18	5.0	5.2	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
262870	8/19/2015 13:59	9.7	29.5	15.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
262871	8/19/2015 15:42	8.9	-6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
262872	8/19/2015 17:23	6.4	10.0	11.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
264382	4/15/2015 17:29	7.2	13.8	-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
268638	7/7/2015 17:03	4.7	4.8	9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
271681	8/19/2015 12:47	15.1	1.5	11.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
273937	9/13/2015 20:35	1.6	1.3	2.1	382	406	ND	ND	ND	ND	ND	ND	ND
274382	5/20/2015 17:35	3.5	1.8	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
276839	5/12/2015 14:06	1.9	4.5	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
279960	5/12/2015 17:55	1.7	-0.1	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
283920	8/18/2015 12:00	15.9	4.4	5.1	130	134	ND	ND	ND	ND	0.86	ND	0.86
283920 Resample	9/14/2015	17.6	3.7	6.1	88	89	ND	ND	ND	ND	0.42	ND	0.42
283920 Resample-D	9/14/2015	17.5	4.5	3.8	92	93	ND	ND	ND	ND	0.39	ND	0.39
284198	9/1/2015 17:00	5.4	2.5	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
704754	9/2/2015 11:52	5.6	11.6	15.3	ND	ND	ND	ND	0.52	ND	ND	ND	ND
890422	9/2/2015 15:03	5.1	44.6	67.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
890933	8/5/2015 13:59	2.3	-20	217	ND	ND	ND	ND	ND	ND	ND	ND	ND
2016 Sampling													
3019	8/22/16 15:50						ND	ND	ND	ND	ND	ND	ND
3772	9/21/16 13:27						ND	ND	ND	ND	ND	ND	ND
3773	9/21/16 14:38						ND	ND	ND	ND	ND	ND	ND
3777	9/20/16 20:04						ND	ND	ND	ND	ND	ND	ND
3941	8/25/16 10:58						ND	ND	ND	ND	ND	ND	ND
22009	6/13/16 14:01						ND	ND	ND	ND	ND	ND	ND
22033	6/14/16 10:02						ND	ND	ND	ND	ND	ND	ND
22034	6/13/16 12:42						ND	ND	ND	ND	ND	ND	ND
22165	9/19/16 12:01						ND	ND	ND	ND	ND	ND	ND
29247	5/12/16 13:25												
32661	6/14/16 15:26						ND	ND	ND	ND	ND	ND	ND
32661-D	6/14/16 15:36						ND	ND	ND	ND	ND	ND	ND
36258	7/18/16 17:02						ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene ug/L	C9 to C10 Aromatics ug/L	C5 to C8 Aliphatics ug/L	C9 to C12 Aliphatics ug/L	Aromatic (C11-C22) (ug/L) ug/L	Total Purgeable Hydrocarbons ug/L	Diesel Range Organics (DRO) mg/L	Total Extractable Hydrocarbons mg/L	Methane mg/L	Ethane mg/L	Ethene mg/L
262046	ND	ND	ND	ND		ND	ND	0.39	ND	ND	ND
262050	ND	ND	ND	ND		ND	ND	ND	0.0011	ND	ND
262870	ND	ND	ND	ND		ND	ND	ND	0.0050	ND	ND
262871	ND	ND	ND	ND		ND	ND	ND	0.0016	ND	ND
262872	ND	ND	ND	ND		ND	ND	ND	0.0033	ND	ND
264382	ND	ND	ND	ND		ND	ND	ND	0.050	ND	ND
268638	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
271681	ND	ND	ND	ND		ND	0.37	0.77	0.0055	ND	ND
273937	ND	ND	387	34		334	0.46	0.95	0.0011	ND	ND
274382	ND	ND	ND	ND		ND	ND	ND	1.1	0.0027	ND
276839	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
279960	ND	ND	ND	ND		ND	ND	0.54	ND	ND	ND
283920	ND	ND	135	ND		115	ND	0.31	0.0037	ND	ND
283920 Resample	ND	ND	87	ND		73	ND	ND	0.0045	ND	ND
283920 Resample-D	ND	ND	88	ND		73	ND	ND	0.0042	ND	ND
284198	ND	ND	ND	ND		ND	ND	0.69	ND	ND	ND
704754	ND	ND	ND	ND		ND	ND	ND	0.0018	ND	ND
890422	ND	ND	ND	ND		ND	ND	0.55	ND	ND	ND
890933	ND	ND	ND	ND		ND	ND	0.55	ND	ND	ND
3019	ND	ND	ND	ND	ND	ND		ND	12.8	ND	ND
3772	ND	ND	ND	ND	ND	ND		351	8640	ND	ND
3773	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
3777	ND	ND	ND	ND	ND	ND		316	ND	ND	ND
3941	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
22009	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
22033	ND	ND	ND	ND	ND	ND		ND	12.7	ND	ND
22034	ND	ND	ND	ND	ND	ND		ND	18.6	ND	ND
22165	ND	ND	ND	ND	ND	ND		825	ND	ND	ND
29247								ND			
32661	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
32661-D	ND	ND	ND	ND		ND		ND	ND	ND	ND
36258	ND	ND	ND	ND	ND	ND		ND	40.9	ND	ND

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
36258-D	7/18/16 17:10						ND	ND	ND	ND	ND	ND	ND
38693	7/19/16 13:47						ND	ND	ND	ND	ND	ND	ND
44354	7/19/16 17:58						ND	ND	ND	ND	ND	ND	ND
44466	8/24/16 17:08						ND	ND	ND	ND	ND	ND	ND
44473	8/24/16 13:08						ND	ND	ND	ND	ND	ND	ND
45929	8/23/16 17:07						ND	ND	ND	ND	ND	ND	ND
46940	8/23/16 16:07						ND	ND	ND	ND	ND	ND	ND
128173	7/19/16 15:44						ND	ND	ND	ND	ND	ND	ND
130345	6/14/16 13:43						ND	ND	ND	ND	ND	ND	ND
145248	5/9/16 14:14												
159228	6/15/16 10:36						ND	ND	ND	ND	ND	ND	ND
194313	7/20/16 16:15						ND	ND	ND	ND	ND	ND	ND
203971	7/20/16 13:25						ND	ND	ND	ND	ND	ND	ND
206533	9/20/16 9:48						ND	ND	ND	ND	ND	ND	ND
206546	9/20/16 10:53						ND	ND	ND	ND	ND	ND	ND
215220	9/20/16 12:10						ND	ND	ND	ND	ND	ND	ND
215223	9/20/16 13:28						ND	ND	ND	ND	ND	ND	ND
217829	5/11/16 14:32						ND	ND	ND	ND	ND	ND	ND
221112	5/9/16 16:29												
221112-D	5/9/16 16:40												
221597	9/20/16 14:52												
221602	9/20/16 16:10						ND	ND	ND	ND	ND	ND	ND
221649	9/19/16 12:51						ND	ND	ND	ND	ND	ND	ND
223034	6/14/16 16:59						ND	ND	ND	ND	ND	ND	ND
223679	7/19/16 11:09						ND	ND	ND	ND	ND	ND	ND
227360	5/10/16 16:25												
242663	8/22/16 16:57						ND	ND	ND	ND	ND	ND	ND
246773	5/12/16 15:12												
247437	8/22/16 18:20						ND	ND	ND	ND	ND	ND	ND
251722	7/20/16 12:48						ND	ND	ND	ND	ND	ND	ND
272365	7/19/16 12:24						ND	ND	ND	ND	ND	ND	ND
275864	8/24/16 11:09						ND	ND	ND	ND	ND	ND	ND
278374	6/16/16 10:49						ND	ND	ND	ND	ND	ND	ND
280431	5/10/16 11:13												
280618	9/19/16 18:01						ND	ND	ND	ND	ND	ND	ND
280621	9/19/16 19:05						ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene ug/L	C9 to C10 Aromatics ug/L	C5 to C8 Aliphatics ug/L	C9 to C12 Aliphatics ug/L	Aromatic (C11-C22) (ug/L) ug/L	Total Purgeable Hydrocarbons ug/L	Diesel Range Organics (DRO) mg/L	Total Extractable Hydrocarbons mg/L	Methane mg/L	Ethane mg/L	Ethene mg/L
36258-D	ND	ND	ND	ND		ND		ND	34.4	ND	ND
38693	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
44354	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
44466	ND	ND	ND	ND	ND	ND		ND	10.6	ND	ND
44473	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
45929	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
46940	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
128173	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
130345	ND	ND	ND	ND		ND		ND	ND	ND	ND
145248								ND			
159228	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
194313	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
203971	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
206533	ND	ND	ND	ND	ND	ND		590	ND	ND	ND
206546	ND	ND	ND	ND	ND	ND		451	13.0	ND	ND
215220	ND	ND	ND	ND	ND	ND		758	ND	ND	ND
215223	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
217829	ND	ND	35.9	ND	ND	33.4		ND	35.1	ND	ND
221112								ND			
221112-D								ND			
221597								599			
221602	ND	ND	ND	ND	ND	ND		2020	148	ND	ND
221649	ND	ND	ND	ND	ND	ND		599	ND	ND	ND
223034	ND	ND	ND	ND	ND	ND		ND	70.7	ND	ND
223679	ND	ND	ND	ND	ND	ND		274	ND	ND	ND
227360								ND			
242663	ND	ND	ND	ND	ND	23.5		ND	11.0	ND	ND
246773								ND			
247437	ND	ND	ND	ND		ND		ND	15.8	ND	ND
251722	ND	ND	ND	ND		ND		ND	ND	ND	ND
272365	ND	ND	ND	ND		ND		ND	ND	ND	ND
275864	ND	ND	ND	ND		ND		ND	ND	ND	ND
278374	ND	ND	ND	ND		ND		ND	16.6	ND	ND
280431								ND			
280618	ND	ND	138	ND		125		381	ND	ND	ND
280621	ND	ND	ND	ND		ND		311	ND	ND	ND

GWIC ID	Date Collected	Organic Carbon, Dissolved (DOC) *mg/L*	Gross Alpha *pCi/L*	Gross Beta *pCi/L*	Gasoline Range Organics (GRO) *ug/L*	Total Purgeable Hydrocarbons *ug/L*	Methyl tert-butyl ether (MTBE) *ug/L*	Benzene *ug/L*	Toluene *ug/L*	Ethylbenzene *ug/L*	m+p-Xylenes *ug/L*	o-Xylene *ug/L*	Xylenes, Total *ug/L*
280641	9/19/16 14:17						ND	ND	ND	ND	ND	ND	ND
280643	9/19/16 16:23						ND	ND	ND	ND	ND	ND	ND
280643-D	9/19/16 16:23						ND	ND	ND	ND	ND	ND	ND
280645	9/20/16 17:26						ND	ND	ND	ND	ND	ND	ND
280650	9/20/16 18:31						ND	ND	ND	ND	ND	ND	ND
280652	9/19/16 10:01						ND	ND	ND	ND	ND	ND	ND
282661	5/11/16 15:30												
284270	8/23/16 12:59						ND	ND	ND	ND	ND	ND	ND
284270-D	8/23/16 13:07						ND	ND	ND	ND	ND	ND	ND
284375	5/10/16 13:07												
704694	7/20/16 0:00						ND	ND	ND	ND	ND	ND	ND
287136	5/12/16 10:43												
287743	6/15/16 11:54						ND	ND	ND	ND	ND	ND	ND
287744	6/15/16 15:27						ND	ND	ND	ND	ND	ND	ND

GWIC ID	Naphthalene ug/L	C9 to C10 Aromatics ug/L	C5 to C8 Aliphatics ug/L	C9 to C12 Aliphatics ug/L	Aromatic (C11-C22) (ug/L) ug/L	Total Purgeable Hydrocarbons ug/L	Diesel Range Organics (DRO) mg/L	Total Extractable Hydrocarbons mg/L	Methane mg/L	Ethane mg/L	Ethene mg/L
280641	ND	ND	338	ND		308		678	ND	ND	ND
280643	ND	ND	ND	ND		ND		479	ND	ND	ND
280643-D	ND	ND	ND	ND		ND		358	ND	ND	ND
280645	ND	ND	86.9	ND		79.2		513	ND	ND	ND
280650	ND	ND	387	ND		353		511	ND	ND	ND
280652	ND	ND	36.8	ND		33.5		753	ND	ND	ND
282661								ND			
284270	ND	ND	ND	ND		ND		ND	ND	ND	ND
284270-D	ND	ND	ND	ND		ND		ND	ND	ND	ND
284375								ND			
704694	ND	ND	ND	ND		ND		ND	ND	ND	ND
287136								ND			
287743	ND	ND	ND	ND		ND		ND	ND	ND	ND
287744	ND	ND	ND	ND		ND		ND	ND	ND	ND

exceeds DEQ action level of 1000 ug/L

G. Radiochemistry of Deer Creek

Station Name	Activity Start	Bismuth-212 pCi/L	Gross alpha pCi/L	Gross beta pCi/L	Lead-210 pCi/L	Lead-212 pCi/L	Lead-214 pCi/L	Potassium-40 pCi/L	Radium-226 pCi/L	Radium-228 pCi/L	Thorium-228 pCi/L	Thorium-234 pCi/L
Deer Creek Middle Fork	6/24/2014 19:41	-60.8	-2	3.5	267	11.6	-0.33	-45.2	-0.06	0.6	18.1	54.3
Deer Creek Middle Fork	8/13/2014 9:06	24.7	4.2	7	111	8.47	27.5	21.6	19.8	5.8	-2.71	117
Deer Creek Middle Fork	8/13/2014 9:06	25.8	5.6	7.8	143	1.07	6.37	150	25.2	0.7	666	154
Deer Creek Middle Fork	10/24/2014 8:20	39.6	-1	3.5	123	0.61	15.6	55.7	0.4	0.9	244	33.3
Deer Creek Middle Fork	4/29/2015 11:00	0.05	22.5	12.5	0.07	0.01	0.02	0.9	0.1	0.3	0.2	0.3
Deer Creek Middle Fork	4/29/2015 11:00	0.04	18	13.2	0.2	0.01	0.02	0.9	0.1	0.07	0.1	0.3
Deer Creek Middle Fork	6/19/2015 12:00		9.6	5.8					0.2	-0.04		
Deer Creek Middle Fork	10/21/2015 9:58	-20	9.2	10.9	146	1.9	10	110	-0.06	0.54	113	-300
Deer Creek Middle Fork	10/21/2015 10:08	69.3	24.9	11	108	4.4	6	-40	0.06	-0.09	-40	-300
	average	9.83625	10.11	8.356	112.3	3.509	8.148	31.738	5.08222	0.97556	124.836	-30.1
	standard deviation	37.0287	9.195	3.495	80.08	4.067	8.981	64.957	9.39769	1.73624	221.676	163.636
Deer Creek off Hwy 254	6/25/2014 8:11	-17.4	10.7	-1	288	4.48	3.71	119	0.04	0.8	139	14.9
Deer Creek off Hwy 254	6/25/2014 8:11	66.5	11.1	2.1	480	-0.82	37.1	-0.4	-0.04	0.5	66.4	-189
Deer Creek off Hwy 254	8/13/2014 7:14	-8.61	15.4	3.5	184	5.61	24.8	114	29.3	0.3	387	66
Deer Creek South Fork	10/24/2014 9:54	44.9	10.5	5.8	143	2.29	20.7	96.9	0.1	1.6	-47.1	-201
Deer Creek South Fork	10/24/2014 9:54	-13.6	2.3	-3	190	-2.45	11	43.9	0.2	1.4	-26.7	-137
Deer Creek South Fork	4/29/2015 12:15	0.04	27.3	9.2	0.2	0.01	0.02	0.8	0.2	0.5	0.2	0.2
Deer Creek South Fork	6/19/2015 14:02		-1	10.2					0.2	-0.7		
Deer Creek South Fork	8/5/2015 13:24	-20	46.4	-0.7	137	1	7.9	119	0.16	0.95	127	-300
Deer Creek South Fork	6/22/2016 16:56		45.2	12.3								
Deer Creek South Fork	6/22/2016 16:56											
	average	7.40429	18.66	4.267	203.2	1.446	15.03	70.457	3.77	0.66875	92.2571	-106.557
	standard deviation	31.6597	16.33	5.131	138.1	2.668	12.16	50.549	9.64978	0.66752	137.83	125.35
Blank (Cedar Creek)	4/30/2015 8:45	0.09	2.8	-1	0.1	0.01	0.02	0.8	0.08	0.6	0.4	0.3
Blank (Little Beaver Creek)	8/6/2015 14:23	21.1	1.6	-2	152	5.1	2	-20	0.11	-0.2	33.6	-200
Blank (Sandstone Creek)	6/25/2014 20:20	42.4	-0.5	-2	205	1.47	15.8	194	0.004	83.9	81.1	72.1
Blank (Sandstone Creek)	8/14/2014 9:00	-29.1	-0.3	-0.5	111	9.95	19.6	119	15.1	0.3	299	29.4
Blank (Sandstone Creek)	10/24/2014 18:15	-24.7	0.2	-0.4	154	3.03	-1.16	154	0.1	1.2	-74.5	-222
Blank (Sandstone Creek)	10/22/2015 8:08	29.9	2.3	-1	149	0.3	5.5	45.3	-0.04	0.96	-100	-300
Blank (Sandstone Creek)	6/24/2016 9:21		-1	-1								

Station Name	Activity Start	Cesium-134 pCi/L	Cesium-137 pCi/L	Protactinium-234 pCi/L	Radium as Ra226 pCi/L	Radium-226 pCi/L	Radium-228 pCi/L	Uranium-234/235/238 mg/l	Uranium-234 pCi/L	Uranium-235 pCi/L	Uranium-238 pCi/L
Deer Creek Middle Fork	6/24/2014 19:41	-8.36	-2.79		-0.06		45.2				
Deer Creek Middle Fork	8/13/2014 9:06			117		0.1					
Deer Creek Middle Fork	8/13/2014 9:06			154		-0.004					
Deer Creek Middle Fork	10/24/2014 8:20										
Deer Creek Middle Fork	4/29/2015 11:00										
Deer Creek Middle Fork	4/29/2015 11:00										
Deer Creek Middle Fork	6/19/2015 12:00										
Deer Creek Middle Fork	10/21/2015 9:58										
Deer Creek Middle Fork	10/21/2015 10:08										
	average										
	standard deviation										
Deer Creek off Hwy 254	6/25/2014 8:11	-6.52	-4.42		0.04		108				
Deer Creek off Hwy 254	6/25/2014 8:11	11.8	-2.71		-0.04		81.5				
Deer Creek off Hwy 254	8/13/2014 7:14			66		0.2					
Deer Creek South Fork	10/24/2014 9:54										
Deer Creek South Fork	10/24/2014 9:54										
Deer Creek South Fork	4/29/2015 12:15										
Deer Creek South Fork	6/19/2015 14:02										
Deer Creek South Fork	8/5/2015 13:24										
Deer Creek South Fork	6/22/2016 16:56							0.04	18.1	0.4	12.8
Deer Creek South Fork	6/22/2016 16:56							0.04	17.7	0.1	14.6
	average										
	standard deviation										
Blank (Cedar Creek)	4/30/2015 8:45										
Blank (Little Beaver Creek)	8/6/2015 14:23										
Blank (Sandstone Creek)	6/25/2014 20:20	8.71	8.32								
Blank (Sandstone Creek)	8/14/2014 9:00			29.4							
Blank (Sandstone Creek)	10/24/2014 18:15										
Blank (Sandstone Creek)	10/22/2015 8:08										
Blank (Sandstone Creek)	6/24/2016 9:21							Not Detected	0.1	0.04	0.03