
Appendix F

Nalco Surface Water Sampling Results 2015 - 2016

Nalco surface water sampling results 2015 – 2016 (mg/L, unless specified otherwise)

Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Turbidity	DO	Alk - M	Na	K	Ca	Mg	Total Nitrogen	Nitrite	NO3	Total Phosphorus (P)
38	Sawyers Swamp Creek Ash Dam	9/04/2015	4.3	1700	4.5	23	860	1300	0.65	12.7	12.5	200	50	80	22	0.95	0.5	4	
39	Dump Creek WX11	9/04/2015	3.2	1600	2.3	21	730	1100	4.5	12	12.5	86	26	67	63	1.3	0.5	0.5	
40	Lidsdale Cut WX5	9/04/2015	3.6	2000	12	16	1200	1800	8.3	12.6	12.5	100	84	120	36	1.45	0.5	3	
41	Sawyers Swamp Creek WX7	9/04/2015	8.8	1100	1.2	7	46	700	7.8	10.7	520	250	11	6.6	4	0.6	0.5	2	
41	Sawyers Swamp Creek WX7	13/04/2015	8.8	1100					8.3										
41	Sawyers Swamp Creek WX7	20/04/2015	8.7	1100					13										
41	Sawyers Swamp Creek WX7	27/04/2015	8.7	1000					11										
41	Sawyers Swamp Creek WX7	4/05/2015	8.7	1100					8.7										
41	Sawyers Swamp Creek WX7	11/05/2015	8.7	1100					7.7										
41	Sawyers Swamp Creek WX7	18/05/2015	8.8	1100					8.2										
38	Sawyers Swamp Creek Ash Dam	27/05/2015	4.4	1600	4.4	19	810	1100	0.55	11.8	12.5	160	44	72	21	0.7	0.5	3	
40	Lidsdale Cut WX5	27/05/2015	3.5	2700	15	26	1800	2400	8.8	11.3	12.5	160	120	180	82	1.45	0.5	0.5	
39	Dump Creek WX11	28/05/2015	3.3	1500	1.7	24	690	980	0.65	10.4	12.5	83	23	66	63	0.95	0.5	0.5	
41	Sawyers Swamp Creek WX7	28/05/2015	8.8	1100	1.1	7	37	680	8.1	8.7	560	220	11	4.8	3	0.55	0.5	2	
41	Sawyers Swamp Creek WX7	1/06/2015	8.8	1100					7.3										
41	Sawyers Swamp Creek WX7	9/06/2015	8.8	1100					5.7										
38	Sawyers Swamp Creek Ash Dam	17/06/2015	5.4	460	0.7	6	195	250	4.1	14.9	12.5	55	15	26	5	0.35	0.5	0.5	
39	Dump Creek WX11	17/06/2015	3.4	1300	1.7	24	610	800	4.2	13.8	12.5	83	24	60	55	1.55	0.5	0.5	
40	Lidsdale Cut WX5	17/06/2015	3.6	2000	11	18	1300	1700	140	16.7	12.5	110	84	130	42	1.55	0.5	3	
41	Sawyers Swamp Creek WX7	17/06/2015	8.8	1100	1.1	7	37	620	5.3	11.8	618	240	11	4.5	3	0.6	0.5	2	
41	Sawyers Swamp Creek WX7	22/06/2015	8.8	1100					4.4										
41	Sawyers Swamp Creek WX7	29/06/2015	8.8	1100					4.8										
41	Sawyers Swamp Creek WX7	6/07/2015	8.8	1100					4.3										
38	Sawyers Swamp Creek Ash Dam	15/07/2015	4.43	1650	2.3	18.1	803	1110	0.6	40.4	0.5	181	50	73.7	20	0.8	0.005	0.59	

Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Turbidity	DO	Alk - M	Na	K	Ca	Mg	Total Nitrogen	Nitrite	NO3	Total Phosphorus (P)
39	Dump Creek WX11	15/07/2015	3.75	728	0.5	18.9	284	446	7.2	20.1	0.5	46.5	10.6	28.8	24.4	1.1	0.005	0.07	
40	Lidsdale Cut WX5	15/07/2015	3.71	2220	9.3	18.3	1280	1600	17.9	19.4	0.5	125	88.4	124	44.7	3.8	0.005	0.68	
41	Sawyers Swamp Creek WX7	15/07/2015	8.8	1100	1.4	6.06	55.1	611	7	24.1	619	260	12.3	4.44	3.25	0.7	0.01	0.43	
41	Sawyers Swamp Creek WX7	20/07/2015	8.7	1100					4.1										
41	Sawyers Swamp Creek WX7	27/07/2015	8.8	1100					5.6										
41	Sawyers Swamp Creek WX7	3/08/2015	8.7	1100					6.3										
41	Sawyers Swamp Creek WX7	10/08/2015	8.8	1100					7.2										
38	Sawyers Swamp Creek Ash Dam	19/08/2015	4.53	1660	5.06	18.3	776	1250	0.6	11.8	0.5	195	53.1	79.2	21.2	0.8	0.005	0.65	
39	Dump Creek WX11	19/08/2015	3.31	1580	0.857	26.5	744	974	2.9	15.4	0.5	95.2	26.4	63.6	59.6	1.9	0.005	0.02	
40	Lidsdale Cut WX5	19/08/2015	3.45	3310	20.1	25.8	2040	3260	11.9	12.6	0.5	204	154	200	76.5	4.2	0.005	0.32	
41	Sawyers Swamp Creek WX7	19/08/2015	8.8	1100	0.991	5.8	36.2	530	5.8	8.4	629	262	12.2	4.33	3.1	0.7	0.005	0.54	
41	Sawyers Swamp Creek WX7	24/08/2015	8.7	1100					15										
41	Sawyers Swamp Creek WX7	31/08/2015	8.8	1100					6.3										
41	Sawyers Swamp Creek WX7	7/09/2015	8.8	1100					7.5										
38	Sawyers Swamp Creek Ash Dam	16/09/2015	4.74	1591	4.5	19.2	828	1150	1.5	11.2	0.5	192	54.9	82.7	21	0.6	0.005	0.6	
39	Dump Creek WX11	16/09/2015	3.48	1462	1.08	34.8	708	644	17.4	11.8	0.5	104	25.3	67.3	59.8	2.8	0.005	0.005	
40	Lidsdale Cut WX5	16/09/2015	3.36	3255	19.1	29.5	2100	2490	5.4	10.2	0.5	217	138	210	91.2	2.5	0.005	0.1	
41	Sawyers Swamp Creek WX7	16/09/2015	8.8	1100	0.714	6.01	34.9	630	7.5	8.8	606	282	13.5	4.79	3.4	0.8	0.005	0.59	
41	Sawyers Swamp Creek WX7	21/09/2015	8.8	1100					5.8										
41	Sawyers Swamp Creek WX7	28/09/2015	8.8	1100					6.3										
41	Sawyers Swamp Creek WX7	6/10/2015	8.8	1200					7.9										
41	Sawyers Swamp Creek WX7	12/10/2015	8.8	1200					8.8										
38	Sawyers Swamp Creek Ash Dam	21/10/2015	4.72	855	1.82	9.58	406	601	1.1	8.2	0.5	92.4	28.9	38.9	9.44	0.6	0.005	0.36	
39	Dump Creek WX11	21/10/2015	3.68	562	0.575	11.5	224	346	30.8	5.1	0.5	32.8	12.2	21.7	15.7	2.4	0.005	0.005	
40	Lidsdale Cut WX5	21/10/2015	3.57	2000	11.2	14.4	1190	1610	1.9	7.8	0.5	112	80.6	121	38.4	2.2	0.005	0.46	
41	Sawyers Swamp Creek WX7	21/10/2015	8.8	1200	1.29	6.31	37.5	674	7.7	7.9	550	259	14.8	4.51	3.33	1	0.01	0.55	

Report Title: KVAR Stage 2 Annual Environmental Management Report 2015-2016
 Objective ID: A895130

Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Turbidity	DO	Alk - M	Na	K	Ca	Mg	Total Nitrogen	Nitrite	NO3	Total Phosphorus (P)
41	Sawyers Swamp Creek WX7	26/10/2015	8.8	1200					8										
41	Sawyers Swamp Creek WX7	2/11/2015	8.8	1200					10										
41	Sawyers Swamp Creek WX7	9/11/2015	8.8	1200					6.4										
38	Sawyers Swamp Creek Ash Dam	18/11/2015	5.45	581	0.691	7.78	255	419	0.9	11.9	0.5	58.7	20.2	28.8	5.51	0.4	0.005	0.36	
39	Dump Creek WX11	18/11/2015	3.1	1921	2.49	19	948	1340	4.8	11.2	0.5	110	37	84.2	71.6	1.3	0.005	0.01	
40	Lidsdale Cut WX5	18/11/2015	3.33	3073	14.6	24.8	1870	2500	2.5	8.3	0.5	185	129	194	73.2	2.8	0.005	0.25	
41	Sawyers Swamp Creek WX7	18/11/2015	8.8	1200	1.03	5.18	35.3	702	6.7	9.9	536	252	14.1	5.12	3.5	1.1	0.005	0.66	
41	Sawyers Swamp Creek WX7	23/11/2015	8.8	1200					5.2										
41	Sawyers Swamp Creek WX7	30/11/2015	8.8	1200					4.6										
38	Sawyers Swamp Creek Ash Dam	9/12/2015	5.4	848	1.18	8.61	408	572	5.9	9.1	2	91.7	28.1	53.8	9.75	0.8	0.005	0.45	
39	Dump Creek WX11	9/12/2015	2.92	2098	2.78	20.4	993	1400	8.1	6.3	0.5	126	43.2	95.8	85.4	1.8	0.005	0.01	
40	Lidsdale Cut WX5	9/12/2015	3.15	3618	17	29.1	2180	2970	0.7	7.2	0.5	251	153	244	101	2.7	0.005	0.13	
41	Sawyers Swamp Creek WX7	9/12/2015	8.7	1200	1.32	5.22	34.3	736	85	7	562	301	14.1	5.43	3.7	1	0.005	0.66	
41	Sawyers Swamp Creek WX7	14/12/2015	8.8	1200					6.3										
41	Sawyers Swamp Creek WX7	21/12/2015	8.7	1200					6.4										
41	Sawyers Swamp Creek WX7	29/12/2015	8.7	1300					7.3										
41	Sawyers Swamp Creek WX7	4/01/2016	8.8	1300					5.6										
41	Sawyers Swamp Creek WX7	11/01/2016	8.7	1300					12										
38	Sawyers Swamp Creek Ash Dam	20/01/2016	5.26	714	1.07	9.47	298	382	0.6	5.9	0.5	65	25.5	36.2	7.78	0.3	0.005	0.26	
39	Dump Creek WX11	20/01/2016	3.13	1734	2.26	20.8	806	1230	2.8	4.8	0.5	104	32	71	67.1	1.1	0.005	0.005	
40	Lidsdale Cut WX5	20/01/2016	3.34	1840	8.31	13.6	947	1460	0.7	5.6	0.5	105	75.4	99.2	36.8	1.6	0.005	0.32	
41	Sawyers Swamp Creek WX7	20/01/2016	8.7	1300	1.43	5.02	35	672	5.2	4.9	654	318	12.5	4.69	3.14	0.8	0.005	0.5	
41	Sawyers Swamp Creek WX7	25/01/2016	8.7	1200					8.6										
41	Sawyers Swamp Creek WX7	1/02/2016	8.8	1100					8.7										
38	Sawyers Swamp Creek Ash Dam	10/02/2016	4.74	1184	2.43	14.5	537	800	0.8	4.9	0.5	129	39.6	55.8	13.1	0.6	0.005	0.55	
40	Lidsdale Cut WX5	10/02/2016	3.13	2788	12.6	23.1	1550	2010	1.4	4.9	0.5	166	114	167	71.5	2.2	0.005	0.14	

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39	Dump Creek WX11	11/02/2016	2.94	1889	2.26	23.6	878	1090	2.8	3.5	0.5	112	35.4	81.2	73.8	2.2	0.005	0.01	
41	Sawyers Swamp Creek WX7	11/02/2016	8.8	1200	1.34	5.51	35	737	4.3	3.9	575	281	13	5.14	3.51	2.6	0.005	0.57	
41	Sawyers Swamp Creek WX7	15/02/2016	8.7	1200					4.2										
41	Sawyers Swamp Creek WX7	22/02/2016	8.8	1200					55										
41	Sawyers Swamp Creek WX7	29/02/2016	8.8	1200					45										
41	Sawyers Swamp Creek WX7	7/03/2016	8.8	1200					3.9										
38	Sawyers Swamp Creek Ash Dam	16/03/2016	4.27	1181	4.16	12.9	582	910	2.8	6.2	0.5	101	39.4	67.6	19.1	0.8	0.005	0.51	
39	Dump Creek WX11	16/03/2016	3.09	1669	1.95	20.3	777	1080	4.3	4.8	0.5	98.7	29.9	71.5	65.4	1.5	0.005	0.01	
40	Lidsdale Cut WX5	16/03/2016	3.24	1786	7.82	14.1	894	1270	73.2	7.6	0.5	96.5	68.1	96.9	37	2.1	0.005	0.53	
41	Sawyers Swamp Creek WX7	16/03/2016	8.7	1200	1.13	4.74	33.7	614	7.7	7.8	649	313	10.5	4.08	2.85	0.8	0.005	0.53	
41	Sawyers Swamp Creek WX7	21/03/2016	8.8	1200					6										
41	Sawyers Swamp Creek WX7	29/03/2016	8.7	1200					7.1										

Nalco surface water sampling results 2015 – 2016 (Metals (mg/L))

Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Al-F	Cu-F	Fe-F	Mn-F	Zn-F
38	Sawyers Swamp Creek Ash Dam	9/04/2015	0.0005	13	0.002	3	0.053	0.0075	0.001	0.015	0.000025	0.0005	0.14	0.001	0.009	0.36	13	0.014	0.17	2.5	0.36
39	Dump Creek WX11	9/04/2015	0.0005	3.9	0.0005	2.5	0.023	0.0008	0.0005	0.007	0.000025	0.0005	0.44	0.006	0.001	1.1	3.9	0.007	9.9	5.8	1.1
40	Lidsdale Cut WX5	9/04/2015	0.0005	66	0.014	5.6	0.038	0.02	0.009	0.02	0.000025	0.0005	0.46	0.004	0.032	1	66	0.018	3.6	5.4	1
41	Sawyers Swamp Creek WX7	9/04/2015	0.0005	0.27	0.014	0.12	0.034	0.0001	0.0005	0.0005	0.000025	0.041	0.007	0.0005	0.001	0.016	0.05	0.0005	0.05	0.064	0.006
38	Sawyers Swamp Creek Ash Dam	27/05/2015	0.0005	12	0.002	2.4	0.046	0.0067	0.0005	0.012	0.00002	0.002	0.13	0.0005	0.006	0.38	12	0.012	0.14	2.3	0.38
40	Lidsdale Cut WX5	27/05/2015	0.0005	53	0.007	6.5	0.018	0.018	0.004	0.019	0.00002	0.0005	0.69	0.042	0.02	2.3	51	0.019	27	9.2	2.2
39	Dump Creek WX11	28/05/2015	0.0005	3.6	0.0005	1.9	0.018	0.0008	0.0005	0.005	0.00002	0.0005	0.39	0.005	0.001	1.1	3.5	0.005	6.4	5.2	1.1
41	Sawyers Swamp Creek WX7	28/05/2015	0.0005	0.31	0.016	0.06	0.033	0.0001	0.0005	0.0005	0.00002	0.044	0.003	0.0005	0.001	0.009	0.02	0.0005	0.02	0.009	0.006
38	Sawyers Swamp Creek Ash Dam	17/06/2015	0.0005	2.1	0.0005	0.75	0.023	0.0014	0.0005	0.005	0.00002	0.002	0.032	0.0005	0.001	0.12	1	0.004	0.03	0.42	0.11
39	Dump Creek WX11	17/06/2015	0.0005	3.3	0.0005	1.8	0.017	0.0006	0.0005	0.007	0.00002	0.0005	0.35	0.005	0.001	0.89	3.2	0.006	3.9	4.6	0.84
40	Lidsdale Cut WX5	17/06/2015	0.0005	68	0.011	5.3	0.032	0.018	0.008	0.019	0.00002	0.0005	0.44	0.008	0.026	0.96	65	0.018	5.9	5.7	0.96
41	Sawyers Swamp Creek WX7	17/06/2015	0.0005	0.43	0.015	0.08	0.031	0.0001	0.0005	0.0005	0.00002	0.043	0.005	0.0005	0.001	0.014	0.06	0.0005	0.05	0.026	0.006
38	Sawyers Swamp Creek Ash Dam	15/07/2015	0.0005	12.7	0.004	2.88	0.043	0.0066	0.0005	0.012	0.00002	0.008	0.147	0.0005	0.0039	0.452	13	0.012	0.142	2.24	0.47
39	Dump Creek WX11	15/07/2015	0.0005	1.42	0.0005	0.65	0.013	0.0004	0.0005	0.004	0.00002	0.0005	0.132	0.0005	0.0002	0.446	1.12	0.003	0.54	2.01	0.437
40	Lidsdale Cut WX5	15/07/2015	0.0005	65.2	0.017	5.49	0.028	0.0199	0.006	0.019	0.00002	0.0005	0.529	0.006	0.0092	1.29	64.2	0.018	5.65	6.38	1.36
41	Sawyers Swamp Creek WX7	15/07/2015	0.0005	0.28	0.023	0.09	0.028	0.00005	0.0005	0.0005	0.00002	0.043	0.003	0.0005	0.0001	0.01	0.03	0.0005	0.011	0.008	0.0025
38	Sawyers Swamp Creek Ash Dam	19/08/2015	0.0005	13.6	0.004	3.52	0.04	0.007	0.0005	0.016	0.00002	0.007	0.172	0.0005	0.0035	0.518	11.9	0.013	0.361	2.3	0.459
39	Dump Creek WX11	19/08/2015	0.0005	4.23	0.0005	2.76	0.016	0.0006	0.0005	0.007	0.00002	0.0005	0.46	0.005	0.0006	1.36	3.6	0.005	4.31	5.12	1.18
40	Lidsdale Cut WX5	19/08/2015	0.0005	103	0.022	9.94	0.017	0.0274	0.008	0.033	0.00002	0.0005	1.07	0.027	0.0116	2.43	87.2	0.027	6.99	10.8	2.1
41	Sawyers Swamp Creek WX7	19/08/2015	0.0005	0.31	0.021	0.24	0.025	0.00005	0.0005	0.0005	0.00002	0.044	0.004	0.0005	0.0001	0.008	0.03	0.0005	0.019	0.008	0.0025

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Objective ID: A895130

Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Al-F	Cu-F	Fe-F	Mn-F	Zn-F
38	Sawyers Swamp Creek Ash Dam	16/09/2015	0.0005	11.2	0.004	3.17	0.037	0.0058	0.0005	0.012	0.00002	0.007	0.13	0.0005	0.0032	0.506	10.3	0.012	0.416	2.25	0.495
39	Dump Creek WX11	16/09/2015	0.0005	3.43	0.0005	2.3	0.017	0.0005	0.0005	0.006	0.00002	0.0005	0.335	0.003	0.0004	1.26	2.89	0.006	2.94	4.66	1.13
40	Lidsdale Cut WX5	16/09/2015	0.0005	72	0.022	9.62	0.016	0.0147	0.004	0.016	0.00002	0.001	0.886	0.031	0.0052	2.69	59.6	0.014	22.2	10.8	2.4
41	Sawyers Swamp Creek WX7	16/09/2015	0.0005	0.5	0.019	0.07	0.031	0.00005	0.0005	0.0005	0.00002	0.044	0.004	0.0005	0.0001	0.011	0.04	0.0005	0.01	0.006	0.0025
38	Sawyers Swamp Creek Ash Dam	21/10/2015	0.0005	4.26	0.002	1.5	0.03	0.0028	0.0005	0.012	0.00002	0.003	0.066	0.0005	0.002	0.318	4	0.011	0.048	1.1	0.311
39	Dump Creek WX11	21/10/2015	0.0005	1.14	0.0005	0.53	0.018	0.0002	0.0005	0.004	0.00002	0.0005	0.106	0.002	0.0001	0.376	0.9	0.002	2.85	1.49	0.369
40	Lidsdale Cut WX5	21/10/2015	0.0005	47.9	0.007	4.32	0.077	0.0136	0.005	0.014	0.00002	0.0005	0.418	0.005	0.0088	1	46.9	0.014	2.5	5.34	0.954
41	Sawyers Swamp Creek WX7	21/10/2015	0.0005	0.46	0.017	0.08	0.029	0.00005	0.0005	0.0005	0.00002	0.043	0.004	0.0005	0.0003	0.011	0.09	0.0005	0.023	0.006	0.0025
38	Sawyers Swamp Creek Ash Dam	18/11/2015	0.0005	0.86	0.0005	1.07	0.03	0.0017	0.0005	0.003	0.00002	0.004	0.046	0.0005	0.0012	0.19	0.76	0.003	0.04	0.714	0.177
39	Dump Creek WX11	18/11/2015	0.0005	4.35	0.0005	3.18	0.02	0.0007	0.0005	0.002	0.00002	0.0005	0.592	0.006	0.0005	1.61	3.92	0.002	9.49	7.04	1.48
40	Lidsdale Cut WX5	18/11/2015	0.0005	63.9	0.011	7.7	0.029	0.0145	0.006	0.015	0.00002	0.0005	0.962	0.008	0.0102	1.9	57	0.012	5.92	11.4	1.72
41	Sawyers Swamp Creek WX7	18/11/2015	0.0005	0.35	0.029	0.18	0.034	0.00005	0.0005	0.0005	0.00002	0.05	0.006	0.0005	0.0004	0.012	0.09	0.0005	0.024	0.019	0.0025
38	Sawyers Swamp Creek Ash Dam	9/12/2015	0.0005	2.29	0.003	1.5	0.026	0.0029	0.0005	1.81	0.00002	0.004	0.076	0.051	0.0023	1.13	2.59	0.01	0.024	1.17	0.247
39	Dump Creek WX11	9/12/2015	0.0005	4.13	0.001	3.76	0.02	0.0008	0.0005	0.008	0.00002	0.0005	0.663	0.005	0.0005	1.7	3.61	0.003	10.4	6.41	1.34
40	Lidsdale Cut WX5	9/12/2015	0.0005	80	0.023	10.1	0.024	0.0156	0.008	0.013	0.00002	0.0005	1.71	0.008	0.0123	2.36	72.4	0.012	6.2	15.4	2.29
41	Sawyers Swamp Creek WX7	9/12/2015	0.0005	0.46	0.027	0.33	0.03	0.00005	0.0005	0.0005	0.00002	0.042	0.009	0.0005	0.0003	0.016	0.25	0.001	0.019	0.038	0.008
38	Sawyers Swamp Creek Ash Dam	20/01/2016	0.0005	1.27	0.0005	1.29	0.028	0.0023	0.0005	0.004	0.00002	0.004	0.056	0.0005	0.0012	0.198	1.19	0.004	0.036	0.834	0.198
39	Dump Creek WX11	20/01/2016	0.0005	3.56	0.0005	2.78	0.024	0.0005	0.0005	0.004	0.00002	0.0005	0.452	0.005	0.0004	1.23	3.57	0.004	10	5.94	1.22
40	Lidsdale Cut WX5	20/01/2016	0.0005	34.5	0.008	3.41	0.023	0.0084	0.004	0.008	0.00002	0.0005	0.479	0.004	0.0058	0.932	34	0.008	3.11	5.15	0.928
41	Sawyers Swamp Creek WX7	20/01/2016	0.0005	0.25	0.028	0.08	0.029	0.00005	0.0005	0.0005	0.00002	0.048	0.003	0.0005	0.0003	0.006	0.06	0.0005	0.02	0.009	0.006
38	Sawyers Swamp Creek Ash Dam	10/02/2016	0.0005	4.6	0.002	2.26	0.027	0.0042	0.0005	0.012	0.00002	0.002	0.104	0.0005	0.0028	0.373	4.17	0.011	0.051	1.51	0.342

Report Title: KVAR Stage 2 Annual Environmental Management Report 2015-2016

Objective ID: A895130

Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Al-F	Cu-F	Fe-F	Mn-F	Zn-F
40	Lidsdale Cut WX5	10/02/2016	0.0005	47.5	0.009	6.7	0.027	0.0093	0.004	0.011	0.00002	0.0005	0.891	0.012	0.07	1.69	42.6	0.008	6.5	10.6	1.59
39	Dump Creek WX11	11/02/2016	0.0005	4.34	0.0005	3.23	0.02	0.0006	0.0005	0.006	0.00002	0.0005	0.515	0.005	0.0004	1.42	3.84	0.005	9.36	6.07	1.34
41	Sawyers Swamp Creek WX7	11/02/2016	0.0005	1.18	0.036	0.26	0.044	0.00005	0.0005	0.001	0.00002	0.047	0.008	0.001	0.0003	0.026	0.04	0.0005	0.038	0.007	0.0025
38	Sawyers Swamp Creek Ash Dam	16/03/2016	0.0005	15.3	0.004	2.47	0.048	0.0065	0.002	0.022	0.00002	0.001	0.196	0.002	0.0041	0.546	14.7	0.021	0.106	2.4	0.521
39	Dump Creek WX11	16/03/2016	0.0005	3.95	0.0005	2.98	0.027	0.0007	0.0005	0.005	0.00002	0.0005	0.452	0.005	0.0004	1.19	3.63	0.004	9.08	5.61	1.1
40	Lidsdale Cut WX5	16/03/2016	0.0005	31.8	0.008	4.3	0.056	0.0073	0.003	0.008	0.00002	0.0005	0.49	0.006	0.05	0.924	30.2	0.008	3.62	5.56	0.883
41	Sawyers Swamp Creek WX7	16/03/2016	0.0005	0.27	0.028	0.12	0.028	0.00005	0.0005	0.0005	0.00002	0.045	0.004	0.0005	0.0002	0.009	0.05	0.0005	0.018	0.007	0.0025