



Photo 11: Western portion of the 'L' shaped canal, looking E.



Photo 12: Western portion of 'L' shaped canal and adjoining wetland, looking E.



Photo 13: Area of unknown disturbance in NE portion of Site (sampling location BH073).



Photo 14: Sediment sampling equipment. Canoe is at approximate location of BH043, looking S.



Photo 15: Sediment sampling location SE012.



Photo 16: Sediment sampling methodology (location SE014).



Photo 17: Typical sediment lithology (SE041).



Photo 18: Dingo with auger used for soil sampling in areas of higher compaction.

Appendix C - Tables

Table C1: Soil Chemistry

	Unassigned		Inorganics											Metals																									
	CEC	Sulphuric Acid	Cyanide Total	Electrical conductivity *(lab)	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Moisture	pH (Lab)	Redox	Sulphur as S	TOC	Aluminium	Leachable Aluminium	Antimony	Leachable Antimony	Arsenic	Leachable Arsenic	Cadmium	Leachable Cadmium	Chromium (III+VI)	Leachable Chromium (III+VI)	Cobalt	Copper	Leachable Copper	Iron	Lead	Leachable Lead	Manganese	Mercury	Leachable Mercury	Nickel	Leachable Nickel	Selenium	Silver	Vanadium	Zinc	Leachable Zinc
EQI	mg/100g	mg/kg	mg/kg	uS/cm	meq/100g	meq/100g	meq/100g	meq/100g	%	pH Units	mV	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
NEPM 1999 EIL	0.1	0.001	0.1	1000	0.1	0.1	0.1	0.1	0.5	0.1	1	0.005	0.02	1	0.1	1	0.1	0.5	0.1	0.1	0.05	0.3	0.1	0.5	0.1	50	0.5	0.1	0.5	0.05	0.001	0.5	0.1	0.5	1	2	0.5	0.1	
USEPA RES												600					20		3		50			100			600		500	1						50	200		
NEPM 1999 HIL E			1000												310			200		40		200		200	2000		600		3000	30		600						14000	
10 times HIL E/ USEPA RES															3100		2000		400		2000		2000	20,000		6000		30,000	300		6000								
30 times HIL E/ USEPA RES															9300		6000		1200		6000		6000	60,000		18,000		90,000	900		18,000								

Field_ID

LocCode

Sample Depth

Sample Date

Source

DLWC 1995																																																	
1/0-10	DLWC95-S1	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	9020	-	2671	-	0.3	-	5	-	-	23	-	-	150	-	35	-	-	-	-	-	40	-										
1/40-50	DLWC95-S1	0.4-0.5	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	7059	-	3596	-	0.4	-	6	-	-	36	-	-	290	-	25	-	-	-	-	-	-	27	-									
1/60-70	DLWC95-S1	0.6-0.7	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	9020	-	4897	-	0.4	-	3.4	-	-	23	-	-	555	-	188	-	-	-	-	-	-	42	-									
2/0-10	DLWC95-S2	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	7843	-	3527	-	0.5	-	5	-	-	22	-	-	125	-	30	-	-	-	-	-	-	20	-									
2/20-30	DLWC95-S2	0.2-0.3	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	5784	-	3048	-	0.5	-	12	-	-	21	-	-	110	-	63	-	-	-	-	-	-	27	-									
2/40-50	DLWC95-S2	0.4-0.5	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	10,490	-	3022	-	0.8	-	77	-	-	142	-	-	920	-	315	-	-	-	-	-	-	50	-									
2/50-55	DLWC95-S2	0.5-0.55	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	45	-	0.4	-	12	-	-	7	-	-	12	-	17	-	-	-	-	-	6	-										
2/80-100	DLWC95-S2	0.8-1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	485	-	0.9	-	27	-	-	17	-	-	34	-	225	-	-	-	-	-	-	21	-									
3/110-120	DLWC95-S3	1.1-1.2	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	37	-	0.8	-	33	-	-	25	-	-	45	-	454	-	-	-	-	-	-	136	-									
3/20-30	DLWC95-S3	0.2-0.3	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	2745	-	1194	-	25.5	-	452	-	-	3448	-	-	3550	-	70	-	-	-	-	-	-	7477	-									
3/65-75	DLWC95-S3	0.65-0.75	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	7647	-	306	-	5.2	-	63	-	-	150	-	-	395	-	766	-	-	-	-	-	-	1290	-									
3/80-85	DLWC95-S3	0.8-0.85	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	549	-	332	-	3.7	-	94	-	-	119	-	-	200	-	507	-	-	-	-	-	-	4626	-									
4/0-10	DLWC95-S4	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	11,670	-	2910	-	0.9	-	23	-	-	704	-	-	480	-	55	-	-	-	-	-	-	137	-									
4/40-48	DLWC95-S4	0.4-0.48	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	1863	-	655	-	0.6	-	96	-	-	172	-	-	160	-	77	-	-	-	-	-	-	41	-									
4/80-90	DLWC95-S4	0.8-0.9	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	9118	-	1557	-	1.8	-	1540	-	-	1710	-	-	935	-	619	-	-	-	-	-	-	178	-									
5/0-10	DLWC95-S5	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	2010	-	197	-	1.6	-	363	-	-	2716	-	-	500	-	89	-	-	-	-	-	-	294	-									
6/0-10	DLWC95-S6	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	6569	-	2869	-	0.8	-	25	-	-	31	-	-	110	-	24	-	-	-	-	-	-	32	-									
6/15-20	DLWC95-S6	0.15-0.2	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	3137	-	738	-	0.8	-	29	-	-	33	-	-	49	-	5	-	-	-	-	-	-	25	-									
6/40-50	DLWC95-S6	0.4-0.5	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	17,160	-	1229	-	1.8	-	81	-	-	399	-	-	170	-	349	-	-	-	-	-	-	383	-									
7/0-10	DLWC95-S7	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	549	-	184	-	1.6	-	72	-	-	1293	-	-	75	-	1194	-	-	-	-	-	-	51	-									
7/20-30	DLWC95-S7	0.2-0.3	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	169	-	82	-	3.3	-	105	-	-	3376	-	-	75	-	3164	-	-	-	-	-	-	110	-									
7/60-70	DLWC95-S7	0.6-0.7	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	11,180	-	266	-	1.5	-	25	-	-	254	-	-	150	-	676	-	-	-	-	-	-	83	-									
7/70-80	DLWC95-S7	0.7-0.8	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	6275	-	504	-	1.5	-	15	-	-	158	-	-	220	-	676	-	-	-	-	-	-	64	-									
8/30-36	DLWC95-S8	0.3-0.36	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	7157	-	4262	-	0.6	-	6	-	-	9	-	-	43	-	49	-	-	-	-	-	-	14	-									
8/70-80	DLWC95-S8	0.7-0.8	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	1029	-	279	-	0.8	-	9	-	-	19	-	-	74	-	349	-	-	-	-	-	-	58	-									
9/0-10	DLWC95-S9	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	7843	-	5041	-	0.4	-	10	-	-	55	-	-	200	-	30	-	-	-	-	-	-	33	-									
10/0-10	DLWC95-S10	0-0.1	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	10,590	-	7582	-	0.7	-	5	-	-	30	-	-	180	-	26	-	-	-	-	-	-	20	-									
10/20-30	DLWC95-S10	0.2-0.3	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	5882	-	6352	-	0.6	-	19	-	-	22	-	-	120	-	46	-	-	-	-	-	-	35	-									
10/70-80	DLWC95-S10	0.7-0.8	14/03/1995	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	1186	-	3648	-	1	-	65	-	-	52	-	-	935	-	721	-	-	-	-	-	-	84	-									
DLWC 1997																																																	
1/4	DLWC97-S1	1.7-1.8	30/04/1997	Historic- Lab	-	0.156	<0.1	22,000	-	-	-	-	-	-	-	-	-	4.8	270	0.005	0.2	-	-	-	1	-	-	2.5	-	<0.5	-	13	-	-	2.4	-	-	7.4	-	2.5	<0.05	-	-	-	-	-	-	4	-
1/5	DLWC97-S1	3.6-3.7	30/04/1997	Historic- Lab	-	0.156	<0.1	17,000	-	-	-	-	-	-	-	-	-	4.8	247	0.005	0.1	-	-	-	<1	-	-	<0.5	-	-	8.5	-	-	7.4	-	-	2.5	<0.05	-	-	-	-	-	-	2	-			
2/1	DLWC97-S2	0.15-0.25	30/04/1997	Historic- Lab	-	0.94	<0.1	64,000	-	-	-	-	-	-	-	-	-	4.1	418	0.03	1.4	-	-	-	3410	-	-	478	-	<0.5	-	3.6	-	-	142	-	-	31	-	13	8.3	-	-	-	-	-	10	-	
3/1	DLWC97-S3	0.2-0.3	30/04/1997	Historic- Lab	-	6.72	0.7	170,000	-	-	-	-	-	-	-	-	-	3.3	471	0.215	0.4	-	-	-	6150	-	-	6250	-	<0.5	-	2.1	-	-	3.2	-	-	87	-	7.4	44	-	-	-	-	9	-		
3/3	DLWC97-S3	0.8-0.9	30/04/1997	Historic- Lab	-	23.59	1.5	317,000	-	-	-	-	-	-	-	-	-	3.1	325	0.755	0.9	-	-	-	6550	-	-	3610	-	<0.5	-	6.5	-	-	88	-	-	107	-	6.4	25	-	-	-	-	31	-		
3/5	DLWC97-S3	1.9-2	30/04/1997	Historic- Lab	-	0.625	<0.1	78,000	-	-	-	-	-	-	-	-	-	5.8	248	0.02	15	-	-	-	2	-	-	6.6	-	<0.5	-	21	-	-	17	-	-	19	-	30	0.1	-	-	-	10	-			
4/1	DLWC97-S4	0.28-0.38	30/04/1997	Historic- Lab	-	5.94	1.3	246,000	-	-	-	-	-	-	-	-	-	3.2	412	0.19	0.4	-	-	-	6780	-	-	5950	-	<0.5	-	2	-	-	5.8	-	-	128	-	6	41	-	-	-	-	11	-		
4/2	DLWC97-S4	1.1-1	30/04/1997	Historic- Lab	-	37.81	2.2	182,000	-	-	-	-	-	-	-	-	-	3.6	297	1.21	1.2	-	-	-	9020	-	-	6970	-	<0.5	-	10	-	-	39	-	-	180	-	161	51	-	-	-	-	46	-		
4/4	DLWC97-S4	1.2-1.3	30/04/1997	Historic- Lab	-	13.75	<0.1	112,000	-	-	-	-	-	-	-	-	-	5.5	116	0.44	4.9	-	-	-	3110	-	-	1980	-	<0.5	-	16	-	-	40	-	-	176	-	255	35	-	-	-	32	-			
5/1	DLWC97-S5	0.07-0.17	30/04/1997	Historic- Lab	-	13.13	0.8	694,000	-	-	-	-	-	-	-	-	-	2.9	438	0.42	0.9	-	-	-	4980	-	-	8740	-	<0.5	-	1.8	-	-	17	-	-	143	-	8.3	37	-	-	-	-	18	-		
5/2	DLWC97-S5	0.5-0.6	30/04/1997	Historic- Lab	-	16.56	1.6	155,000	-	-	-	-	-	-	-	-	-	4.8	408	0.53	0.5	-	-	-	5170	-	-	3340	-	<0.5	-	5	-	-	15	-	-	211	-	100	39	-	-	-	30	-			
5/3	DLWC97-S5	1-1.1	30/04/1997	Historic- Lab	-	23.91	5.8	227,000	-	-	-	-	-	-	-	-	-	4.4	47	0.765	4.8	-	-	-	5920	-	-	2130	-	<0.5	-	21	-	-	364	-	-	512	-	382	65	-	-	-	-	65	-		
6/1	DLWC97-S6	0.24-0.34	30/04/1997	Historic- Lab	-	3.44	2.1	68,000	-	-	-	-	-	-	-	-	-	4.4	324	0.11	0.9	-	-	-	3330	-	-	3120	-	<0.5	-	1.5	-	-	18	-	-												

	Unassigned		Inorganics											Metals																									
	CEC	Sulphuric Acid	Cyanide Total	Electrical conductivity *(lab)	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Moisture	pH (Lab)	Redox	Sulphur as S	TOC	Aluminium	Leachable Aluminium	Antimony	Leachable Antimony	Arsenic	Leachable Arsenic	Cadmium	Leachable Cadmium	Chromium (III+VI)	Leachable Chromium (III+VI)	Cobalt	Copper	Leachable Copper	Iron	Lead	Leachable Lead	Manganese	Mercury	Leachable Mercury	Nickel	Leachable Nickel	Selenium	Silver	Vanadium	Zinc	Leachable Zinc
	meq/100g	mg/kg	mg/kg	uS/cm	meq/100g	meq/100g	meq/100g	meq/100g	%	pH Units	mV	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/L
	EQL	0.1	0.001	0.1	1000	0.1	0.1	0.1	0.1	0.5	0.1	1	0.005	0.02	1	0.1	1	0.1	0.5	0.1	0.1	0.05	0.3	0.1	0.5	0.5	0.1	50	0.5	0.1	0.5	0.05	0.001	0.5	0.1	0.5	1	2	0.5
NEPM 1999 EIL												600				310		20		3		50			100		600		500	1		60					50	200	
USEPA RES																																							
NEPM 1999 HIL E			1000															200		40		200		200	2000		600		3000	30		600						14000	
10 times HIL E/ USEPA RES															3100	2000		400		2000		2000	20,000			6000		30,000	300		6000								
30 times HIL E/ USEPA RES															9300	6000		1200		6000		6000	60,000			18,000		90,000	900		18,000								

Field_ID

LocCode

Sample Depth

Sample Date

Source

Coffey 2004

A4	Coffey04-SA4	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	-	<1	-	5	-	-	9	-	-	8	-	-	<0.1	-	<1	-	-	-	-	22	-
A5	Coffey04-SA5	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	<1	-	6	-	-	10	-	-	5	-	-	<0.1	-	<1	-	-	-	-	29	-
A6	Coffey04-SA6	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	-	<1	-	15	-	-	13	-	-	11	-	-	<0.1	-	<1	-	-	-	-	38	-
A7	Coffey04-SA7	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	-	<1	-	10	-	-	17	-	-	10	-	-	<0.1	-	<1	-	-	-	-	41	-
B5	Coffey04-SB5	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	7	-	10	-	<1	-	18	-	-	39	-	-	10	-	-	<0.1	-	1	-	-	-	-	37	-
B6	Coffey04-SB6	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	6	-	10	-	<1	-	19	-	-	87	-	-	8	-	-	0.13	-	2	-	-	-	-	17	-
B7	Coffey04-SB7	0-0.15	7/01/2004	Historic- Lab	-	-	-	-	-	-	-	-	-	-	-	-	7	-	10	-	<1	-	11	-	-	22	-	-	9	-	-	0.15	-	<1	-	-	-	-	42	-

DECC 2008

001	DECC08May-S001	0-0.01	29/05/2008	Historic-XRF	-	-	-	-	-	-	-	-	-	-	-	-	6813	-	1866	-	-	-	-	-	-	-	-	69	-	-	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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GHD 2012 Boreholes

BH001 0.0-0.2	BH001	0-0.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	12.250	-	3416	-	<21.12	-	<143	-	-	616.1	-	-	21.91	-	-	43.46	-	<54.05	-	-	-	-	36.73	-	
BH001 0.3-0.5	BH001	0.3-0.5	16/08/2012	Lab	-	-	-	-	-	5.4	3.6	-	-	-	-	-	2970	-	3660	-	1520	-	<1	-	-	-	-	630	-	-	18	-	-	38.3	-	2	-	-	-	30	-	
BH001 0.3-0.5	BH001	0.3-0.5	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	11.720	-	2913	-	<19.75	-	<144.1	-	-	598.3	-	-	24.32	-	-	51.42	-	<53.16	-	-	-	-	44.63	-	
BH001 0.7-0.9	BH001	0.7-0.9	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<415	-	26.86	-	<36.88	-	<112.8	-	-	<122.7	-	-	<8.68	-	-	<5.72	-	<36.29	-	-	-	-	11.82	-	
BH001 0.7-0.9	BH001	0.7-0.9	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<415	-	26.86	-	<36.88	-	<112.8	-	-	<122.7	-	-	<8.68	-	-	<5.72	-	<36.29	-	-	-	-	11.82	-	
BH001 1.0-1.2	BH001	1-1.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	239.4	-	200.3	-	<14.83	-	<108.9	-	-	-	-	41.2	-	-	<6.9	-	-	<6.13	-	<34.59	-	-	-	15.12	-
BH002 0.0-0.2	BH002	0-0.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	2053	-	264.9	-	<14.83	-	<114.3	-	-	25.19	-	-	<5.59	-	-	<5.98	-	<35.93	-	-	-	-	57.09	-	
BH002 0.5-0.7	BH002	0.5-0.7	16/08/2012	Lab	-	-	-	-	-	16.8	-	-	-	-	-	-	-	<5	-	<5	-	<1	-	11	-	-	7	-	-	6	-	-	<0.1	-	<2	-	-	-	-	13	-	
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BH003 0.5-0.7	BH003	0.5-0.7	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<16.78	-	8.01	-	<15.36	-	<762.3	-	-	<16.67	-	-	<5.34	-	-	<5.54	-	<35.4	-	-	-	-	26.57	-	
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BH004 0.0-0.2	BH004	0-0.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	11,570	-	3931	-	<20.36	-	<145.5	-	-	113.3	-	-	151.9	-	-	48.49	-	<50.18	-	-	-	-	59.34	-	
BH004 0.5-0.7	BH004	0.5-0.7	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<17.01	-	<3.8	-	<14.54	-	<119.5	-	-	<16.95	-	-	8.14	-	-	<5.65	-	<35.11	-	-	-	-	12.42	-	
BH004 1.0-1.2	BH004	1-1.2	16/08/2012	Lab	-	-	-	-	-	28.6	-	-	-	-	-	-	-	2050	-	1160	-	<1	-	16	-	-	166	-	-	116	-	-	28.9	-	5	-	-	-	-	95	-	
BH004 1.0-1.2	BH004	1-1.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	5323	-	84.85	-	<17.48	-	<130.1	-	-	<19.81	-	-	34.53	-	-	<7.2	-	<41.87	-	-	-	-	52.87	-	
BH004 1.5-1.7	BH004	1.5-1.7	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	218.6	-	76.3	-	<12.75	-	<99.18	-	-	<15.35	-	-	<4.93	-	-	<4.67	-	<27.08	-	-	-	-	18.78	-	
BH004 2.0-2.2	BH004	2-2.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	56.49	-	43.78	-	<42.01	-	<115.7	-	-	<16.06	-	-	<5.45	-	-	<5.39	-	<34.64	-	-	-	-	24.95	-	
BH005 0.0-0.2	BH005	0-0.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<19.47	-	19.09	-	<15.06	-	<101.1	-	-	5706	-	-	<6.06	-	-	<6.29	-	<35	-	-	-	-	54.56	-	
BH005 0.0-0.2	BH005	0-0.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<19.47	-	19.09	-	<15.06	-	<101.1	-	-	5706	-	-	<6.06	-	-	<6.29	-	<35	-	-	-	-	54.56	-	
BH005 0.3-0.5	BH005	0.3-0.5	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	3312	-	372.6	-	<14.96	-	<114.7	-	-	<17.58	-	-	18.6	-	-	<6	-	<36.71	-	-	-	-	29.47	-	
BH005 1.0-1.2	BH005	1-1.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	4206	-	278.9	-	<15.61	-	<117.4	-	-	<18.07	-	-	43.46	-	-	<6.16	-	<38.91	-	-	-	-	47.33	-	
BH005 1.5-1.8	BH005	1.5-1.8	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	1197	-	367.6	-	<12.9	-	<92.14	-	-	54.34	-	-	<4.94	-	-	<4.73	-	<29.05	-	-	-	-	24.57	-	
BH005 2.0-2.2	BH005	2-2.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	99.63	-	149.6	-	<13.07	-	<98.43	-	-	<14.23	-	-	<5.84	-	-	<4.79	-	<30.75	-	-	-	-	12.28	-	
BH006 0.0-0.3	BH006	0-0.3	3/08/2012	Lab	-	-	-	-	-	36.2	-	-	-	-	-	-	-	1950	-	702	-	-	-	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-	-	-	-	-	
BH006 0.0-0.3	BH006	0-0.3	13/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	847.6	-	164.8	-	<35.73	-	<105.5	-	-	458	-	-	<7.21	-	-	<6.12	-	<37.94	-	-	-	-	58.68	-	
BH006 0.0-0.3	BH006	0-0.3	13/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	847.6	-	164.8	-	<35.73	-	<105.5	-	-	458	-	-	<7.21	-	-	<6.12	-	<37.94	-	-	-	-	58.68	-	
BH010 0.0-0.2	BH010	0-0.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	509.1	-	191.6	-	<15.44	-	<102.7	-	-	1006	-	-	10.84	-	-	<6.55	-	<36.3	-	-	-	-	32.82	-	
BH010 0.3-0.5	BH010	0.3-0.5	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	4479	-	83.45	-	<16.12	-	<119.4	-	-	444.5	-	-	39.39	-	-	<6.76	-	<39.39	-	-	-	-	194.3	-	
BH010 1.0-1.2	BH010	1-1.2	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<16.01	-	3.82	-	<14.71	-	<116.4	-	-	17.35	-	-	<6.07	-	-	<5.16	-	<33.67	-	-	-	-	<9.16	-	
BH010 1.5-1.8	BH010	1.5-1.8	14/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.5	-	6.05	-	<13.35	-	<112.9	-	-	30.41	-	-	7.43	-	-	<4.91	-	<31.97	-	-	-	-	13.6	-	
BH012 0.0-0.1	BH012	0-0.1	16/08/2012	Lab	-	-	-	-	-	41.2	-	-	-	-	-	13.100	-	<5	-	16	-	<1	-	15	-	-	12	-	-	25.400	12	-	-	-	-	5	-	-	-	8	-	
BH012 0.0-0.1	BH012	0-0.1	16/08/2012	Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	847.6	-	164.8	-	<35.73	-	<105.5	-	-	458	-	-	<7.21	-	-	<6.12	-	<37.94	-	-	-	-	58.68	-	
BH014 0.0-0.1	BH014	0-0.1	15/08/2012	Lab	1	-	-	2	-	-	-	-	-	-	-	-	-	509.1	-	191.6	-	<15.44	-	<102.7	-	-	1006	-	-	10.84	-	-	<6.55	-	<36.3	-	-	-	-	32.82	-	
BH014 0.0-0.1	BH014	0-0.1	15/08/2012	Lab	1	-	-	2	-	0.2	0.5	<0.1	0.2	34.8	4.7	-	2.88	4660	-	7	-	7	-	<1	-	<0.05	5	-	<0.1	-	-	<0.1	-	<0.001	-	<0.1	-	-	-	-	0.9	-
BH014 0.0-0.1	BH014	0-0.1	15/08/2012	Lab	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	<0.1	-	<0.1	-	<0.05	-	<0.1	-	<0.1	-	-	<0.1	-	-	<0.001	-	<0.1	-	-	-	-	0.4	-
BH020 0.0-0.2	BH020	0-0.2	16/08/2012	Lab	-	-	-	-	-	13.6	-	-	-	-	-	7520	-	59	-	58	-	11	-	12	-	-	724	-	27,400	25	-	-	-	-	4	-	-	-	695	-		
BH020 0.0-0.2	BH020	0-0.2	16/08/2012	Lab	-	-	-	-	-	-	-	-	-	-	1.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.05	-	<0.1	-	1.1	-	-	<0.1	-	-	<0.001	-	<0.1	-	-	-	-	1.2	-
BH020 0.0-0.2	BH020	0-0.2	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	<16.99	-	42.56	-	<13.97	-	<275.6	-	-	174.7	-	-	<5.48	-	-	<5.52	-	<34.14	-	-	-	-	43.91	-	
BH020 0.3-0.5	BH020	0.3-0.5	16/08/2012	XRF	-	-	-	-	-	-	-	-	-	-	-	-	-	35.69	-	56.2	-	<13.59	-	<213.6	-	-	88.42	-	-	<5.03	-	-	<5.46	-	<33.05	-	-					

[illegible]

[illegible]

[illegible]

Table C01_Soil Chemistry_all data_V10_OK , 5/12/2012

					CEC	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	Moisture	pH (Lab)	TOC	Total Aluminium	Leachable Aluminium	HM HCl Extractable Aluminium	Total Antimony	Leachable Antimony	HM HCl Extractable Antimony	Total Arsenic	Leachable Arsenic	HM HCl Extractable Arsenic	Total Cadmium	Leachable Cadmium	HM HCl Extractable Cadmium	Total Chromium (III+VI)	Leachable Chromium (III+VI)	HM HCl Extractable Chromium (III+VI)	HM HCl Extractable Cobalt	Total Copper	Leachable Copper	HM HCl Extractable Copper	Total Cyanide	Total Iron	HM HCl Extractable Iron	Total Lead	Leachable Lead	HM HCl Extractable Lead	HM HCl Extractable Manganese	Total Mercury	Leachable Mercury	Total Nickel	Leachable Nickel	HM HCl Extractable Nickel	HM HCl Extractable Selenium	HM HCl Extractable Silver	HM HCl Extractable Vanadium	Total Zinc	Leachable Zinc	HM HCl Extractable Zinc	
					meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	%	pH units	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
					0.1	0.1	0.1	0.1	0.1	1	0.1	0.02	50	0.1	50	5	0.1	1	5	0.1	1	5	0.1	0.05	0.1	2	0.1	1	0.5	5	0.1	1	1	50	50	5	0.1	1	10	0.1	0.001	2	0.1	1	0.5	1	2	5	0.1	1
ANZECC (2000) Interim Sediment Quality Guidelines - Low															2		2	20		20	1.5		1.5	80		80		65		65					50		50			0.15	21		21	21	1		200		200	
ANZECC (2000) Interim Sediment Quality Guidelines - High															25		25	70		70	10		10	370		370		270		270					220		220			1	52		52	52	3.7		410		410	
10 times ANZECC (2000) Interim Sediment Quality Guidelines - High															250		250	700		700	100		100	3700		3700		2700		2700	500			2200		2200			10	520		520	520	37		4100		4100		
30 times ANZECC (2000) Interim Sediment Quality Guidelines - High															750		750	2100		2100	300		300	11,100		11,100		8100		8100	1500			6600		6600			30	1560		1560	1560	111		12,300		12,300		
Dutch Intervention																																																		
Field_ID	LocCode	Sample Depth	Sample Date	Source	-	-	-	-	-	25.7	5.1	-	2180	-	-	3980	-	-	1980	-	-	<1	-	-	22	-	-	-	574	-	-	<1	-	-	405	-	-	-	58.9	-	<2	-	-	-	-	-	142	-	-	
SE001 0.0-0.1	SE001	0.0-1	14/08/2012	Lab	-	-	-	-	-	39.3	4.8	-	-	-	-	9260	-	-	5410	-	-	<1	-	-	112	-	-	-	491	-	-	8	-	-	1760	-	-	32.2	-	7	-	-	-	-	-	149	-	-		
SE001 0.1-0.2	SE001	0.1-0.2	14/08/2012	Lab	-	-	-	-	-	65.9	-	-	9970	5.9	-	274	0.1	-	293	<0.1	-	<1	<0.05	-	20	<0.1	-	136	<0.1	-	-	6670	-	40	<0.1	-	26	<0.001	4	<0.1	-	-	-	-	42	6.8	-			
SE001 0.4-0.6	SE001	0.4-0.6	14/08/2012	Lab	-	-	-	-	-	73.3	5	5.25	10,300	-	2300	4440	-	1680	225	-	57.9	-	0.3	1450	-	61.8	0.8	1900	-	1450	2	-	5780	1170	-	1010	36	87.6	-	15.64	-	<27.61	-	1.2	1.2	<1	15.9	145	-	53.2
SE002 0.0-0.1	SE002	0.0-1	14/08/2012	Lab	4.8	1.7	1.4	1.1	0.6	73.3	5	5.25	10,300	-	2300	4440	-	1680	225	-	57.9	-	0.3	1450	-	61.8	0.8	1900	-	1450	2																			

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C3: Soil and Sediment XRF/Laboratory Result Comparison Table

	Antimony (LAB)		RPD/Comment	Arsenic (LAB)		RPD/Comment	Cadmium (LAB)		RPD/Comment	Chromium (III-VI) (LAB)		RPD/Comment	Copper (LAB)		RPD/Comment	Lead (LAB)		RPD/Comment	Mercury (LAB)		RPD/Comment	Nickel (LAB)		RPD/Comment	Zinc (LAB)		RPD/Comment
	mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg		mg/kg	mg/kg	
EQL	1	1	(%)	0.5	0.5	(%)	0.1	0.1	(%)	0.5	0.5	(%)	0.5	0.5	(%)	0.5	0.5	(%)	0.05	0.05	(%)	0.5	0.5	(%)	0.5	0.5	(%)
Field ID																											
BH001 0.3-0.5	3660	11,720	-105	1520	2913	-63	<1	<19.75	Both Non detect	7	<144.1	Lab low, XRF non detect	630	598.3	5	18	24.32	-30	38.3	51.42	-29	2	<53.16	Lab low, XRF non detect	30	44.63	-39
BH002 0.5-0.7	<5	<17.61	Both non detect	<5	33.72	Both Low	<1	<39.22	Both Non detect	11	<111	Lab low, XRF non detect	7	14.82	-72	6	<6.87	Both Low	<0.1	<5.8	Both Non detect	<2	<78.24	Both non detect	13	28.05	-73
BH004 0.0-0.2	4700	11,570	-84	1950	3931	-67	<1	<20.36	Both Non detect	18	<145.5	Lab low, XRF non detect	136	113.3	18	150	151.9	-1	61.2	48.49	23	<2	<50.18	Both non detect	47	59.34	-23
BH004 1.0-1.2	2050	5323	-89	1160	84.85	173	<1	<17.48	Both Non detect	16	<130.1	Lab low, XRF non detect	166	<19.81	Inconsistent	116	34.53	108	28.9	<7.2	Both Low	5	<41.87	Both low	95	52.87	57
BH006 0.0-0.3	1950	847.6	79	702	164.8	124	-	<35.73	Both Non detect	-	<105.5	-	-	458	-	-	<7.21	-	2.3	<6.12	Both Low	-	<37.94	-	-	58.68	-
BH020 0.0-0.2	59	<16.99	Both low	58	42.56	31	11	<13.97	Both Non detect	12	<275.6	Lab low, XRF non detect	724	174.7	122	25	<5.48	Lab low, XRF non detect	0.6	<5.52	Lab low, XRF non detect	4	<34.14	Lab low, XRF non detect	695	43.91	176
BH022 0.5-0.7	544	489.7	11	132	71.58	59	<1	<14.08	Both Non detect	9	<106.8	Lab low, XRF non detect	29	140.3	-131	23	<5.48	Lab low, XRF non detect	0.3	<5.53	Lab low, XRF non detect	<2	<31.71	Both non detect	13	28	-73
BH023 0.0-0.2	13,200	4277	102	6860	1453	130	-	<15.44	-	-	<22.85	-	-	<17.18	-	-	35.57	-	146	28.26	135	-	<38.88	-	-	<10.02	-
BH023 0.5-0.7	8650	4260	68	4110	1461	95	-	<15.48	-	-	<121.2	-	-	<17.71	-	-	38.38	-	42.8	22.23	63	-	<37.35	-	-	9.74	-
BH024 0.3-0.5	6640	9228	-33	4050	2431	50	-	<19.08	Both Non detect	-	<128.2	-	-	531.6	-	-	656.7	-	-	42.34	-	-	<45.27	-	-	96.67	-
BH024 1.0-1.2	192	677.5	-112	130	652.5	-134	-	<13.95	Both Non detect	-	<102.8	-	-	2318	-	-	184.9	-	-	14.61	-	-	<31.07	-	-	35.7	-
BH024 2.0-2.2	31	<15.95	Both Low	33	78.47	-82	-	<13.55	Both Non detect	-	<102.8	-	-	96.38	-	-	11.15	-	-	<5.03	-	-	<31.61	-	-	30.73	-
BH028 0.0-0.2	12,600	-	-	5000	5259	-5	<1	-	-	3	<24.81	Lab low, XRF non detect	23	55.87	-83	11	25.02	-78	47.3	44.15	7	<2	209	Inconsistent	27	51.08	-62
BH028 0.3-0.5	978	-	-	599	1185	-66	<1	-	-	7	<32.19	Lab low, XRF non detect	8	27.82	-111	10	<10.23	Lab low, XRF non detect	30.6	<12.08	Lab low, XRF non detect	<2	83.61	Inconsistent	8	<13.71	Lab low, XRF non detect
BH031 1.0-1.2	9670	4932	65	5280	3832	32	<1	<16.9	Both Non detect	9	<131.9	Lab low, XRF non detect	21	<20.17	Both Low	133	75.71	55	58.3	35.54	49	9	<41.52	Lab low, XRF non detect	24	26.78	-11
BH032 0.3-0.5	6070	2482	84	3620	1086	108	<1	<14.56	Both Non detect	34	<115.3	Lab low, XRF non detect	231	354.8	-42	996	251.4	119	78.8	28.4	94	<2	<35.12	Both non detect	39	26.89	37
BH053 0.3-0.5	5320	14,470	-92	3560	3007	17	<1	<22.98	Both Non detect	11	<143.8	Lab low, XRF non detect	26	<24.94	Lab low, XRF non detect	329	216.4	41	35.8	32.35	10	3	<53.36	Lab low, XRF non detect	19	32.09	-51
BH053 1.5-1.7	150	670.5	-127	1330	596.7	76	<1	<11.74	Both Non detect	18	<81.96	Lab low, XRF non detect	22	<11.67	Both Low	25	36.05	-36	1.2	<5.28	Both Low	9	<25.01	Lab low, XRF non detect	14	<7.34	Both Low
BH053 3.2-3.5	23	<16.29	Both Low	80	69.44	14	<1	<13.75	Both Non detect	11	<112.1	Lab low, XRF non detect	<5	21.66	Both Low	14	<5.11	Both Low	0.4	<5.56	Both Low	<2	<33.03	Both non detect	<5	14.26	Both Low
BH056 0.3-0.5	<5	<16.2	Both non detect	<5	5.5	Both Low	-	<14.92	Both Non detect	-	<116.9	-	-	<14.96	-	-	<6.22	-	<0.1	<5.24	Both Low	-	<33.44	-	-	8.35	-
BH060 0.0-0.2	160	26.59	143	66	50.17	27	-	<12.83	Both Non detect	-	<98.01	-	-	37.3	-	-	<4.67	-	1.1	<5.01	Both Low	-	<29.94	-	-	29.61	-
BH064 0.0-0.2	<5	<16.42	Both non detect	<5	4.62	Both Low	-	<21.08	Both Non detect	-	<114.9	-	-	18.4	-	-	<5.3	-	<0.1	<5.39	Both Non detect	-	<33.86	-	-	26.72	-
BH064 0.3-0.5	<5	<17.29	Both non detect	7	11.22	-46	-	<14.76	Both Non detect	-	<109.7	-	-	26.54	-	-	<5.65	-	<0.1	<5.76	Both Non detect	-	<35.48	-	-	36.88	-
BH071 0.5-0.7	<5	<16.35	Both non detect	<5	13.55	Both Low	<1	<20.17	Both Non detect	4	<105.2	Lab low, XRF non detect	<5	<15.22	Both non detect	8	<5.33	Both Low	<0.1	<5.3	Both Non detect	<2	<33.97	Both non detect	8	12.04	-40
BH073 0.0-0.2	295	447.9	-41	496	<69.91	Inconsistent	-	<19.62	Both Non detect	-	<594.3	-	-	947.6	-	-	15580.00	-	47.5	14.96	104	-	<36.26	-	-	7674	-
BH073 0.5-0.7	405	30.15	172	416	282.2	38	-	<19.7	Both Non detect	-	<117.9	-	-	480.6	-	-	2746	-	57.8	8.8	147	-	<34.68	-	-	1004	-
BH073 1.0-1.2	72	<15.96	Both low	13	76.23	-142	<1	<13.76	Both Non detect	11	<112.8	Lab low, XRF non detect	120	171.8	-36	518	623.5	-18	0.8	<5.57	Lab low, XRF non detect	<2	<32.28	Both non detect	305	406.5	-29
BH074 0.8-1.0	<5	<15.49	Both non detect	<5	<2.69	Both non detect	-	<14.36	Both Non detect	-	<112.9	-	-	<14.63	-	-	<5.87	-	<0.1	<4.98	Both Non detect	-	<31.94	-	-	6.64	-
BH075 1.8-2.0	36	<12.93	Both Low	129	32.4	120	3	<11.61	Both Non detect	10	<82.77	Lab low, XRF non detect	30	<12.25	Both Low	17	<3.77	Both Low	0.2	<4.02	Both Low	3	<25.15	Lab low, XRF non detect	76	17.27	126
BH077 0.0-0.2	388	22.4	178	432	107.3	120	<1	<13.05	Both Non detect	10	<103.2	Lab low, XRF non detect	19	<14.92	Lab low, XRF non detect	80	<5.01	Both Low	2	<5.13	Lab low, XRF non detect	2	<29.99	Lab low, XRF non detect	10	12.26	-20
BH077 0.3-0.5	93	<13.7	Both Low	157	212	-30	<1	<11.72	Both Non detect	15	<84.81	Lab low, XRF non detect	28	22.28	23	24	38.87	47	0.8	<4.14	Both Low	5	<24.94	Lab low, XRF non detect	9	7.28	21
BH077 1.0-1.2	36	93.58	-89	156	477.1	-101	<1	<13.83	Both Non detect	14	<111.3	Lab low, XRF non detect	10	17.09	-52	17	31.15	-59	0.6	<6.22	Both Low	3	<33.46	Lab low, XRF non detect	11	23.39	-72
BH077 1.5-1.7	882	107	157	2130	543.3	119	<1	<11.81	Both Non detect	17	<84.79	Lab low, XRF non detect	51	<12.56	Both Low	170	41.75	121	5.4	<4.87	Both Low	8	<25.19	Lab low, XRF non detect	33	7.55	126
BH077 2.0-2.2	144	<12.24	Inconsistent	165	39.13	123	<1	<10.89	Both Non detect	20	<76.76	Lab low, XRF non detect	22	<11.27	Lab low, XRF non detect	21	<3.85	Lab low, XRF non detect	0.8	<3.67	Lab low, XRF non detect	18	<22.64	Lab low, XRF non detect	15	<5.95	Lab low, XRF non detect
BH082 1.5-1.7	92	71.09	26	1510	139.2	166	-	<11.41	-	-	<79.09	-	-	<12.35	-	-	27.7	-	1.3	<4.11	Lab low, XRF non detect	-	<24.46	-	-	8.9	-
BH084 1.0-1.2	2730	550.2	133	518	105.7	132	-	<13.43	Both Non detect	-	<104.8	-	-	26.5	-	-	62.46	-	5.1	<5.45	Both Low	-	<32.04	-	-	19.28	-
BH084 1.5-1.7	3220	645.5	133	387	116.6	107	-	<11.62	Both Non detect	-	<80.22	-	-	<11.75	-	-	15.22	-	<0.1	<4.1	Both Non detect	-	<24.79	-	-	24.71	-
BH091 0.0-0.1	<5	<13.59	Both non detect	5	10.04	-67	-	<12.15	Both Non detect	-	<95.89	-	-	<13.59	-	-	<4.58	-	0.1	<4.3	Both low	-	<27.2	-	-	15.66	-
BH101 0.0-0.2	5400	664.8	156	2540	128.7	181	<1	<13	Both Non detect	34	<96.62	Lab low, XRF non detect	272	151.8	57	474	17.65	186	343	<5.1	Inconsistent	<2	<29.46	Both non detect	47	22.9	69
SE002 0.0-0.1	3060	1750	54	141	35.82	119	<1 - 0.3	<12.37	Both Non detect	61.8 - 1450	<91.97	Inconsistent	735	760.1	-3	1090	412	90	87.6	15.64	139	1.2 - 4	<27.61	Lab low, XRF non detect	99	50.5	65
SE002 0.3-0.5	1200	<12.75	Inconsistent	295	135.6	74	3	<10.88	Both Non detect	253	<75.91	Lab low, XRF non detect	1100	20.95	193	216	<3.69	Inconsistent	9.8	<3.57	Both Low	13	<22.82	Lab low, XRF non detect	140	93.63	40
SE102 0.0-0.2	744	117.1	146	18	<3.64	Both Low	<1	<11.06	Both Non detect	17	<78.58	Lab low, XRF non detect	708	230.8	102	74	57.83	25	0.3	<3.72	Both Low	11	<23.39	Lab low, XRF non detect	39	<6.73	Both Low

RPD >150%

Concentration exceeds adopted threshold

Concentration exceeds 10 x adopted threshold

Concentration exceeds 30 x adopted threshold

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C4: Particle Size Analysis- Soil and Sediment

					Particle Sizing												Soil Classification						
					+75um	+150um	+300um	+425um	+600um	+1180um	+2.36mm	+4.75mm	+9.5mm	+19.0mm	+37.5mm	+75.0mm	Clay (<2 um)	Silt (2-60 um)	Cobbles (>6cm)	Gravel (>2mm)	Sand (0.06-2.00 mm)	Lab Classification	Field Classification
					%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		
EQL					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Field_ID	LocCode	Matrix	Sample Depth	Sample Date																			
BH014_0.0-0.1	BH014	Soil	0-0.1	15/08/2012	72	69	32	12	7	5	4	2	<1	<1	<1	<1	14	13	<1	4	69	clayey SAND	silty SAND
BH023_0.0-0.1	BH023	Soil	0-0.1	15/08/2012	77	73	26	6	1	<1	<1	<1	<1	<1	<1	<1	14	7	<1	<1	79	clayey SAND	SAND
BH031_0.0-0.2	BH031	Soil	0-0.2	15/08/2012	76	53	25	14	8	2	<1	<1	<1	<1	<1	<1	9	14	<1	<1	77	silty SAND	silty SAND
BH031_0.5-0.7	BH031	Soil	0.5-0.7	15/08/2012	72	47	20	10	5	<1	<1	<1	<1	<1	<1	<1	9	17	<1	<1	74	silty SAND	silty SAND
BH031_1.8-2.0	BH031	Soil	1.8-2	15/08/2012	20	12	6	4	2	1	<1	<1	<1	<1	<1	<1	36	44	<1	1	19	clayey SILT	clayey SILT
SE002_0.5-0.7	SE002	Sediment	0.5-0.7	14/08/2012	22	10	3	1	1	<1	<1	<1	<1	<1	<1	<1	36	41	<1	<1	23	clayey SILT	sandy CLAY
SE003_0.2-0.4	SE003	Sediment	0.2-0.4	16/08/2012	18	6	2	1	<1	<1	<1	<1	<1	<1	<1	<1	28	47	<1	<1	25	clayey SILT	SILT
SE004_0.2-0.3	SE004	Sediment	0.2-0.3	16/08/2012	20	11	3	2	1	<1	<1	<1	<1	<1	<1	<1	36	44	<1	<1	20	clayey SILT	silty CLAY
SE004_0.4-0.6	SE004	Sediment	0.4-0.6	16/08/2012	14	7	2	1	<1	<1	<1	<1	<1	<1	<1	<1	39	47	<1	<1	14	clayey SILT	SILT
SE011_0.7-0.9	SE011	Sediment	0.7-0.9	14/08/2012	12	8	5	5	4	3	<1	<1	<1	<1	<1	<1	63	25	<1	1	11	silty CLAY	CLAY, some silt
SE033_0.0-0.05	SE033	Sediment	0-0.05	15/08/2012	11	8	7	6	5	4	3	<1	<1	<1	<1	<1	55	30	<1	3	12	silty CLAY	silty CLAY
SE033_0.2-0.4	SE033	Sediment	0.2-0.4	15/08/2012	23	11	2	2	1	<1	<1	<1	<1	<1	<1	<1	24	54	<1	<1	22	clayey SILT	silty CLAY
SE033_0.4-0.6	SE033	Sediment	0.4-0.6	15/08/2012	9	8	6	5	5	3	1	<1	<1	<1	<1	<1	80	11	<1	1	8	silty CLAY	SILT
SE063_0.0-0.1	SE063	Sediment	0-0.1	15/08/2012	14	12	11	10	9	6	3	<1	<1	<1	<1	<1	68	12	<1	3	17	silty CLAY	SILT
SE063_0.2-0.3	SE063	Sediment	0.2-0.3	15/08/2012	6	4	2	2	2	1	<1	<1	<1	<1	<1	<1	57	36	<1	1	6	silty CLAY	sandy CLAY
SE063_0.4-0.6	SE063	Sediment	0.4-0.6	15/08/2012	9	8	7	6	6	4	2	<1	<1	<1	<1	<1	64	27	<1	2	7	silty CLAY	SILT

Table C5: Acid Sulfate Soil Analysis

		pH					Acidity Trail						Sulfur Trail				Calcium Values						Magnesium Values						Retained Acidity				Acid Base Accounting					
		pH KCl (23A)	pH OX (23B)	pH (F)	pH (Fox)	Reaction Rate	Titratable Actual Acidity (23F)	Titratable Peroxide Acidity (23G)	Titratable Sulfidic Acidity (23H)	sulfidic - Titratable Actual Acidity (s-23F)	sulfidic - Titratable Peroxide Acidity (s-23G)	sulfidic - Titratable Sulfidic Acidity (s-23H)	KCl Extractable Sulfur (23Ce)	Peroxide Sulfur (23De)	Peroxide Oxidisable Sulfur (23E)	acidity - Peroxide Oxidisable Sulfur (a-23E)	KCl Extractable Calcium (23Vh)	Peroxide Calcium (23Wh)	Acid Reacted Calcium (23X)	acidity - Acid Reacted Calcium (a-23X)	sulfidic - Acid Reacted Calcium (s-23X)	KCl Extractable Magnesium (23Sm)	Peroxide Magnesium (23Tm)	Acid Reacted Magnesium (23U)	Acidity - Acid Reacted Magnesium (a-23U)	sulfidic - Acid Reacted Magnesium (s-23U)	HCl Extractable Sulfur (20Be)	Net Acid Soluble Sulfur (20Je)	acidity - Net Acid Soluble Sulfur (a-20J)	sulfidic - Net Acid Soluble Sulfur (s-20J)	ANC Fineness Factor	Net Acidity (sulfur units)	Net Acidity (acidity units)	Liming Rate				
		pH Units	pH units	pH units	pH units	-	mole H+ / t	mole H+ / t	mole H+ / t	% pyrite S	% pyrite S	% pyrite S	% S	% S	% S	mole H	% Ca	% Ca	% Ca	mole H+ / t	% S	% Mg	% Mg	% Mg	mole H+ / t	% S	% S	% S	mole H+ / t	% pyrite S	-	% S	mole H+ / t	kg CaCO3/t				
EQL		0.01	0.01	0.01	0.01	1	2	2	2	0.02	0.02	0.02	0.02	0.02	0.02	10	0.02	0.02	0.02	10	0.02	0.02	0.02	0.02	10	0.02	0.02	0.02	0.02	10	0.02	0.02	10	0.02	0.5	0.02	10	1
Field ID	Sample Date	4.0	2.1	3.4	2.5	3	32	64	31	0.05	0.10	0.05	<0.02	0.05	0.05	29	<0.02	<0.02	<0.02	<10	<0.02	<0.02	<0.02	<0.02	<10	<0.02	0.02	0.02	11	<0.02	1.5	0.12	73	5				
BH031 0.0-0.2	15/08/2012	4.8	1.9	3.8	0.9	3	12	547	536	<0.02	0.88	0.86	<0.02	0.84	0.84	522	<0.02	<0.02	<0.02	<10	<0.02	<0.02	<0.02	<10	<0.02	-	-	-	-	-	1.5	0.86	534	40				
BH031 0.5-0.7	15/08/2012	4.5	2.1	6.9	1.4	4	85	702	617	0.14	1.12	0.99	0.04	0.85	0.81	504	0.14	0.17	0.02	12	<0.02	0.03	0.04	<0.02	13	0.02	-	-	-	-	-	1.5	0.94	589	44			
BH031 1.8-2.0	15/08/2012	4.6	3.2	5.9	2.3	2	19	153	<2	0.03	0.24	<0.02	<0.02	0.06	0.06	39	<0.02	<0.02	<0.02	<10	<0.02	<0.02	<0.02	<10	<0.02	-	-	-	-	-	1.5	0.09	58	4				
BH032 0.0-0.2	14/08/2012	4.4	2.6	6.3	1.4	2	38	151	<2	0.06	0.24	<0.02	<0.02	0.19	0.19	118	<0.02	<0.02	<0.02	<10	<0.02	<0.02	<0.02	<10	<0.02	-	-	-	-	-	1.5	0.32	199	15				
BH032 0.3-0.5	14/08/2012	5.5	2.7	7.1	1.5	2	18	352	334	0.03	0.56	0.54	0.03	0.50	0.48	297	0.14	0.18	0.03	16	0.02	0.08	0.09	<0.02	11	<0.02	0.09	0.09	43	0.07	1.5	0.50	315	24				
BH032 1.0-1.2	14/08/2012	-	-	6.5	2.9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH054 0.0-0.2	14/08/2012	-	-	6.9	1.7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH054 0.7-0.9	14/08/2012	-	-	6.7	1.2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BH054 1.0-1.2	14/08/2012	-	-	6.7	1.9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE001 0.0-0.1	16/08/2012	-	-	6.7	1.9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE003 0.2-0.4	16/08/2012	4.5	2.4	-	-	-	56	356	300	0.09	0.57	0.48	<0.02	0.22	0.22	141	0.05	0.06	<0.02	<10	<0.02	0.04	0.05	<0.02	<10	<0.02	-	-	-	-	-	1.5	0.32	197	15			
SE003 0.2-0.4	16/08/2012	-	-	5.9	1.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE004 0.0-0.1	16/08/2012	-	-	5.9	1.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE011 0.3-0.5	16/08/2012	-	-	5.7	1.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE013 0.3-0.5	16/08/2012	4.4	3.2	-	-	-	260	1010	746	0.42	1.61	1.20	0.03	0.54	0.50	313	0.10	0.12	<0.02	<10	<0.02	0.04	0.05	<0.02	<10	<0.02	0.08	0.04	20	0.03	1.5	0.95	594	44				
SE013 0.3-0.5	16/08/2012	-	-	6.6	1.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE031 0.5-0.7	16/08/2012	4.5	2.3	6.6	1.5	3	87	712	625	0.14	1.14	1.00	<0.02	0.43	0.43	268	0.13	0.15	0.02	12	<0.02	0.09	0.10	<0.02	<10	<0.02	-	-	-	-	-	1.5	0.57	355	27			
SE050 0.0-0.1	16/08/2012	-	-	5.4	2.2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE050 0.2-0.4	16/08/2012	-	-	5.4	2.2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SE054 0.1-0.3	16/08/2012	-	-	6.5	1.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

Table C6: Surface Water Chemistry

	Field					Inorganics							Alkalinity						Major Ions											
	Dissolved Oxygen (Field)	Electrical Conductivity (Field)	Oxygen Redox Potential (Field)	pH (Field)	Temp (Field)	Cyanide Total	Electrical conductivity *(lab)	pH (Lab)	Redox	TOC	Total Dissolved Solids	Total Suspended Solids	Alkalinity (total) as CaCO3	Alkalinity (Bicarbonate as CaCO3)	Alkalinity (Carbonate as CaCO3)	Alkalinity (Hydroxide) as CaCO3	Bicarbonate	Hardness as CaCO3	Calcium	Calcium (Filtered)	Chloride	Magnesium	Magnesium (Filtered)	Potassium	Potassium (Filtered)	Sodium	Sodium (Filtered)	Sulphate	Anions Total	Cations Total
	mg/L	uS/cm	mV	pH Units	oC	mg/L	uS/cm	pH Units	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq/L	meq/L
EQL	0.1	100		0.01		0.004	1000	0.1	1	1	5	2	1	1	1	1	1	0.5	0.1	1	1	0.1	1	0.1	1	0.1	1	1	0.01	0.01
ANZECC 2000 FW Slightly-moderate disturbed system						0.007																								
10 times ANZECC 2000 FW Slightly-moderate disturbed system						0.07																								
30 times ANZECC 2000 FW Slightly-moderate disturbed system						0.21																								
ANZECC 2000 MW Slightly-moderate disturbed system						0.004																								

Field ID	LocCode	Sample Date	0.4	171	-	6.25	-	0.027	146	6	311	18	94	10	18	-	-	-	18	23	3.5	-	31	3.6	-	0.6	-	18	-	2	-	-
2	DLWC97-SW2	30/04/1997	1.2	117	-	6.01	-	0.009	94	5.7	314	29	68	47	16	-	-	-	16	21	3.3	-	18	3.2	-	1.3	-	17	-	<1	-	-
3	DLWC97-SW3	30/04/1997	3.5	146	-	5.94	-	0.013	139	5	335	10	90	8	3	-	-	-	3	16	2.8	-	32	2.3	-	2.2	-	22	-	10	-	-
4	DLWC97-SW4	30/04/1997	4.4	102	-	6.19	-	0.018	95	6.1	308	15	73	6	10	-	-	-	10	14	2.3	-	18	2.2	-	2	-	16	-	4	-	-
5	DLWC97-SW5	30/04/1997	5.1	103	-	6.1	-	<0.005	90	6	305	16	96	6	10	-	-	-	10	16	2.2	-	19	2.5	-	1.8	-	17	-	4	-	-
6	DLWC97-SW6	30/04/1997	3.9	121	-	6.12	-	0.038	93	5.9	316	15	74	6	9	-	-	-	9	13	2	-	19	2	-	1.5	-	14	-	8	-	-
7	DLWC97-SW7	30/04/1997	1	102	-	6.08	-	0.033	101	6.1	314	16	70	7	10	-	-	-	10	15	2.1	-	20	2.4	-	2.2	-	19	-	3	-	-
8	DLWC97-SW8	30/04/1997	3	100	-	6.08	-	0.044	90	6	324	15	80	9	9	-	-	-	9	16	2.4	-	18	2.4	-	2.3	-	17	-	8	-	-
9	DLWC97-SW9	30/04/1997	3	104	-	6.32	-	0.007	91	6	317	15	81	17	10	-	-	-	10	15	2.3	-	18	2.3	-	2.3	-	17	-	7	-	-
10	DLWC97-SW10	30/04/1997	3.2	113	-	6.4	-	<0.005	95	5.8	307	14	70	11	10	-	-	-	10	15	2.5	-	18	2.2	-	2	-	17	-	4	-	-
11	DLWC97-SW11	30/04/1997	1.8	105	-	5.98	-	0.02	96	6	332	15	86	8	9	-	-	-	9	14	2.1	-	20	2.1	-	2.1	-	17	-	10	-	-
12	DLWC97-SW12	30/04/1997	1.9	116	-	5.94	-	0.029	105	6	309	15	92	14	11	-	-	-	11	16	2.3	-	22	2.4	-	2.7	-	20	-	4	-	-
13	DLWC97-SW13	30/04/1997	5.4	149	-	6.09	-	0.038	123	6	304	20	115	10	11	-	-	-	11	17	2.6	-	29	2.6	-	3	-	24	-	2	-	-
14	DLWC97-SW14	30/04/1997	4.5	158	-	6.18	-	0.011	142	5.7	310	12	108	8	10	-	-	-	10	16	2.3	-	34	2.4	-	1.9	-	25	-	2	-	-
15	DLWC97-SW15	30/04/1997	0.9	229	-	6.04	-	0.013	218	5.7	312	9	128	7	13	-	-	-	13	16	2.3	-	54	2.6	-	0.8	-	44	-	4	-	-
16	DLWC97-SW16	30/04/1997	1.7	214	-	6.15	-	0.016	198	5.4	318	7	122	17	5	-	-	-	5	15	1.9	-	54	2.5	-	0.9	-	36	-	4	-	-
17	DLWC97-SW17	30/04/1997	0.9	256	-	5.95	-	0.012	249	5.9	290	11	162	3	12	-	-	-	12	28	3.6	-	67	4.5	-	1.6	-	46	-	3	-	-
18	DLWC97-SW18	30/04/1997	1.1	266	-	5.95	-	0.008	240	6.3	268	11	169	4	14	-	-	-	14	29	4	-	65	4.7	-	1.7	-	45	-	3	-	-
SW001	SW001	22/08/2012	2.46	168	241	5.4	12.8	<0.004	-	-	-	-	129	43	8	8	<1	<1	-	-	-	3	48	-	3	-	1	-	24	<1	1.51	1.47
SW002	SW002	22/08/2012	6.58	177	222	6.9	21.2	<0.004	-	-	-	-	126	9	9	9	<1	<1	-	-	-	3	44	-	3	-	1	-	23	<1	1.42	1.42
SW003	SW003	22/08/2012	6.8	137	207	5.5	19.6	<0.004	-	-	-	-	107	9	4	4	<1	<1	-	-	-	2	33	-	2	-	1	-	18	2	1.05	1.07
SW004	SW004	22/08/2012	6.96	128	198	6	16	<0.004	-	-	-	-	106	<5	4	4	<1	<1	-	-	-	2	32	-	2	-	1	-	18	2	1.02	1.07
SW005	SW005	22/08/2012	-	131	191	5.9	15.4	<0.004	-	-	-	-	104	6	4	4	<1	<1	-	-	-	2	32	-	2	-	1	-	18	2	1.02	1.07
SW006	SW006	22/08/2012	5.27	139	132	6.1	14.8	<0.004	-	-	-	-	105	8	7	7	<1	<1	-	-	-	2	36	-	2	-	1	-	20	2	1.2	1.16
SW007	SW007	22/08/2012	5.87	141	150	6.8	14.5	<0.004	-	-	-	-	112	8	6	6	<1	<1	-	-	-	2	36	-	2	-	1	-	20	1	1.16	1.16
SW008	SW008	22/08/2012	5.65	320	257	4.9	14	<0.004	-	-	-	-	194	15	<1	<1	<1	<1	-	-	-	4	101	-	6	-	1	-	48	5	2.95	2.81
SW009	SW009	22/08/2012	1.54	247	202	5.2	12.9	<0.004	-	-	-	-	157	6	1	1	<1	<1	-	-	-	5	67	-	6	-	2	-	36	20	2.33	2.36

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C6: Surface Water Chemistry

			Metals																						
			Aluminium	Aluminium (Filtered)	Antimony	Antimony (Filtered)	Arsenic	Arsenic (Filtered)	Cadmium	Cadmium (Filtered)	Chromium (III+VI)	Chromium (III+VI) (Filtered)	Copper	Copper (Filtered)	Iron	Iron (Filtered)	Lead	Lead (Filtered)	Manganese	Mercury	Mercury (Filtered)	Nickel	Nickel (Filtered)	Zinc	Zinc (Filtered)
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.01	0.01	0.001	0.001	0.001	0.001	0.0001	0.0001	0.001	0.001	0.001	0.001	0.05	0.05	0.001	0.001	0.005	0.001	0.0001	0.001	0.001	0.005	0.005
ANZECC 2000 FW Slightly-moderate disturbed system			0.055	0.055	0.009	0.009	0.013	0.013	0.0002	0.0002	0.001	0.001	0.0014	0.0014			0.0034	0.0034	1.9	0.00006	0.00006	0.011	0.011	0.008	0.008
10 times ANZECC 2000 FW Slightly-moderate disturbed system			0.55	0.55	0.09	0.09	0.13	0.13	0.002	0.002	0.01	0.01	0.014	0.014			0.034	0.034	19	0.0006	0.0006	0.11	0.11	0.08	0.08
30 times ANZECC 2000 FW Slightly-moderate disturbed system			1.65	1.65	0.27	0.27	0.39	0.39	0.006	0.006	0.03	0.03	0.042	0.042			0.102	0.102	57	0.0018	0.0018	0.33	0.33	0.24	0.24
ANZECC 2000 MW Slightly-moderate disturbed system					0.27	0.27	0.0045	0.0045	0.0007	0.0007	0.0044	0.0044	0.0013	0.0013			0.0044	0.0044	0.08	0.0001	0.0001	0.007	0.007	0.015	0.015

Field ID	LocCode	Sample Date																							
1	DLWC97-SW1	30/04/1997	0.38	-	<0.01	-	0.005	-	-	-	-	<0.005	-	8.4	-	<0.01	-	0.132	<0.001	-	-	-	-	-	
2	DLWC97-SW2	30/04/1997	0.85	-	<0.01	-	0.014	-	-	-	-	<0.005	-	15	-	<0.01	-	0.098	<0.001	-	-	-	-	-	
3	DLWC97-SW3	30/04/1997	0.16	-	0.15	-	0.705	-	-	-	-	0.029	-	2.7	-	<0.01	-	0.13	<0.001	-	-	-	-	-	
4	DLWC97-SW4	30/04/1997	0.25	-	0.26	-	0.456	-	-	-	-	0.08	-	2.9	-	0.006	-	0.037	<0.001	-	-	-	-	-	
5	DLWC97-SW5	30/04/1997	0.25	-	0.21	-	0.276	-	-	-	-	0.055	-	2.6	-	<0.01	-	0.037	<0.001	-	-	-	-	-	
6	DLWC97-SW6	30/04/1997	0.26	-	0.22	-	0.405	-	-	-	-	0.101	-	2.9	-	0.007	-	0.041	<0.001	-	-	-	-	-	
7	DLWC97-SW7	30/04/1997	0.19	-	0.09	-	0.117	-	-	-	-	0.009	-	1.8	-	<0.01	-	0.025	<0.001	-	-	-	-	-	
8	DLWC97-SW8	30/04/1997	0.24	-	0.2	-	0.294	-	-	-	-	0.122	-	2.3	-	0.008	-	0.044	<0.001	-	-	-	-	-	
9	DLWC97-SW9	30/04/1997	0.25	-	0.2	-	0.394	-	-	-	-	0.142	-	3.2	-	0.009	-	0.047	<0.001	-	-	-	-	-	
10	DLWC97-SW10	30/04/1997	0.22	-	0.1	-	0.236	-	-	-	-	0.055	-	2.8	-	0.009	-	0.032	<0.001	-	-	-	-	-	
11	DLWC97-SW11	30/04/1997	0.21	-	0.17	-	0.194	-	-	-	-	0.014	-	2.1	-	<0.01	-	0.039	<0.001	-	-	-	-	-	
12	DLWC97-SW12	30/04/1997	0.14	-	0.11	-	0.128	-	-	-	-	0.008	-	1.9	-	<0.01	-	0.042	<0.001	-	-	-	-	-	
13	DLWC97-SW13	30/04/1997	0.16	-	0.03	-	0.058	-	-	-	-	0.005	-	1.8	-	<0.01	-	0.032	<0.001	-	-	-	-	-	
14	DLWC97-SW14	30/04/1997	0.11	-	0.02	-	0.048	-	-	-	-	0.009	-	1.9	-	<0.01	-	0.019	<0.001	-	-	-	-	-	
15	DLWC97-SW15	30/04/1997	<0.05	-	<0.01	-	0.021	-	-	-	-	0.008	-	3.5	-	<0.01	-	0.04	<0.001	-	-	-	-	-	
16	DLWC97-SW16	30/04/1997	0.09	-	<0.01	-	0.053	-	-	-	-	<0.005	-	4.4	-	<0.01	-	0.092	<0.001	-	-	-	-	-	
17	DLWC97-SW17	30/04/1997	<0.05	-	<0.01	-	0.037	-	-	-	-	0.005	-	3.5	-	<0.01	-	0.111	<0.001	-	-	-	-	-	
18	DLWC97-SW18	30/04/1997	<0.05	-	<0.01	-	0.031	-	-	-	-	<0.005	-	3.2	-	<0.01	-	0.097	<0.001	-	-	-	-	-	
SW001	SW001	22/08/2012	0.36	0.09	0.022	0.01	0.008	<0.001	<0.0001	<0.0001	0.001	<0.001	0.021	0.001	5.38	0.54	0.001	<0.001	-	-	<0.0001	<0.001	<0.001	0.016	0.018
SW002	SW002	22/08/2012	0.19	0.11	0.171	0.145	0.077	0.028	<0.0001	<0.0001	0.001	<0.001	0.011	0.008	2.94	1.05	0.002	<0.001	-	-	<0.0001	<0.001	<0.001	0.016	0.018
SW003	SW003	22/08/2012	0.25	0.19	0.139	0.12	0.171	0.118	<0.0001	<0.0001	<0.001	<0.001	0.017	0.012	1.72	1.21	0.005	0.003	-	-	<0.0001	<0.001	<0.001	0.026	0.032
SW004	SW004	22/08/2012	0.22	0.19	0.116	0.139	0.104	0.073	<0.0001	<0.0001	<0.001	<0.001	0.013	0.012	1.57	1.09	0.005	0.003	-	-	<0.0001	<0.001	<0.001	0.03	0.028
SW005	SW005	22/08/2012	0.22	0.21	0.151	0.133	0.092	0.071	<0.0001	<0.0001	<0.001	<0.001	0.014	0.012	1.52	1.15	0.004	0.003	-	-	<0.0001	<0.001	<0.001	0.032	0.031
SW006	SW006	22/08/2012	0.24	0.18	0.083	0.073	0.063	0.043	<0.0001	<0.0001	<0.001	<0.001	0.013	0.01	1.74	1.05	0.006	0.003	-	-	<0.0001	<0.001	<0.001	0.048	0.047
SW007	SW007	22/08/2012	0.2	0.13	0.07	0.061	0.056	0.038	<0.0001	<0.0001	<0.001	<0.001	0.012	0.008	1.48	0.97	0.004	0.002	-	-	<0.0001	<0.001	<0.001	0.041	0.025
SW008	SW008	22/08/2012	0.09	0.06	0.244	0.155	0.069	0.04	<0.0001	<0.0001	<0.001	<0.001	0.007	0.008	0.54	0.32	0.002	0.002	-	-	<0.0001	0.003	0.003	0.114	0.124
SW009	SW009	22/08/2012	0.05	0.03	0.018	0.012	0.016	0.002	0.0006	0.0005	0.001	<0.001	0.016	0.01	0.81	0.13	<0.001	<0.001	-	-	<0.0001	<0.001	<0.001	0.848	0.82

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C7: Groundwater Chemistry

	Field					Inorganics							Alkalinity							Major Ions														
	Dissolved Oxygen (Field)	Electrical Conductivity (Field)	Oxygen Redox Potential (Field)	pH (Field)	Temp (Field)	Cyanide Total	Electrical conductivity *(lab)	pH (Lab)	Redox	TOC	Total Dissolved Solids	Total Suspended Solids	Alkalinity (total) as CaCO3	Alkalinity (Bicarbonate as CaCO3)	Alkalinity (Carbonate as CaCO3)	Alkalinity (Hydroxide) as CaCO3	Bicarbonate	Carbonate	Hardness as CaCO3	Calcium	Calcium (Filtered)	Chloride	Magnesium	Magnesium (Filtered)	Potassium	Potassium (Filtered)	Sodium	Sodium (Filtered)	Sulphate	Anions Total	Cations Total	Ionic Balance		
	mg/L	uS/cm	mV	pH Units	oC	mg/L	uS/cm	pH Units	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq/L	meq/L	%	
EQL						0.004	1	0.1	1	1	5	2	1	1	1	1	1		0.5	0.1	0.1	0.05	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.01	0.01	0.01		
ANZECC 2000 FW Slightly-moderate disturbed system						0.007																												
10 times ANZECC 2000 FW Slightly-moderate disturbed system						0.07																												
30 times ANZECC 2000 FW Slightly-moderate disturbed system						0.21																												
ANZECC 2000 MW Slightly-moderate disturbed system						0.004																												
Field_ID	WellCode	Sample Date																																
4	DLW97-GW4	1/05/1997	-	-	-	-	-	0.184	1160	6.4	164	86	858	14,300	267	-	-	-	267	-	130	14	-	213	23	-	8.5	-	222	-	12	-	-	-
6	DLW97-GW6	1/05/1997	-	-	-	-	-	0.184	1160	6.4	164	86	858	14,300	267	-	-	-	267	-	130	14	-	213	23	-	8.5	-	222	-	12	-	-	-
7	DLW97-GW7	1/05/1997	-	-	-	-	-	0.104	541	6.2	238	59	604	12,900	70	-	-	-	70	-	70	8.6	-	89	12	-	7	-	111	-	28	-	-	-
12	DLW97-GW12	1/05/1997	-	-	-	-	-	<0.005	382	6.3	246	65	321	19,400	91	-	-	-	91	-	108	20	-	73	14	-	1	-	57	-	<1	-	-	-
13	DLW97-GW13	1/05/1997	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	103	15	-	16	-	8.2	-	86	-	-	-	-	-	-	-	
GW004	DLW97-GW4	22/08/2012	1.12	387	163.6	4.46	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GW006	DLW97-GW6	22/08/2012	0.68	1144	-50.8	6.28	17.8	0.597	-	-	-	-	970	1190	285	285	<1	<1	347.7	<1.2	-	-	12	184	-	20	-	8	-	194	<10	10.9	10.9	0.02
GW007	DLW97-GW7	22/08/2012	0.13	784	-37	6.32	15.3	0.06	-	-	-	-	560	356	172	172	<1	<1	209.8	<1.2	-	-	9	150	-	14	-	7	-	132	<1	7.67	7.52	0.99
GW013	DLW97-GW12	22/08/2012	0.71	755	-64	6.53	19	<0.004	-	-	-	-	412	408	160	160	<1	<1	195.2	<1.2	-	-	12	78	-	14	-	6	-	71	<1	5.4	5.22	1.6

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C7: Groundwater Chemistry

			Metals																						
			Aluminium	Aluminium (Filtered)	Antimony	Antimony (Filtered)	Arsenic	Arsenic (Filtered)	Cadmium	Cadmium (Filtered)	Chromium (III+VI)	Chromium (III+VI) (Filtered)	Copper	Copper (Filtered)	Iron	Iron (Filtered)	Lead	Lead (Filtered)	Manganese	Mercury	Mercury (Filtered)	Nickel	Nickel (Filtered)	Zinc	Zinc (Filtered)
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.005	0.001	0.001	0.001	0.001	0.001	0.0001	0.0001	0.001	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.005	0.0001	0.0001	0.001	0.001	0.001	0.001
ANZECC 2000 FW Slightly-moderate disturbed system			0.055	0.055	0.009	0.009	0.013	0.013	0.0002	0.0002	0.001	0.001	0.0014	0.0014			0.0034	0.0034	1.9	0.00006	0.00006	0.011	0.011	0.008	0.008
10 times ANZECC 2000 FW Slightly-moderate disturbed system			0.55	0.55	0.09	0.09	0.13	0.13	0.002	0.002	0.01	0.01	0.014	0.014			0.034	0.034	19	0.0006	0.0006	0.11	0.11	0.08	0.08
30 times ANZECC 2000 FW Slightly-moderate disturbed system			1.65	1.65	0.27	0.27	0.39	0.39	0.006	0.006	0.03	0.03	0.042	0.042			0.102	0.102	57	0.0018	0.0018	0.33	0.33	0.24	0.24
ANZECC 2000 MW Slightly-moderate disturbed system					0.27	0.27	0.0045	0.0045	0.0007	0.0007	0.0044	0.0044	0.0013	0.0013			0.0044	0.0044	0.08	0.0001	0.0001	0.007	0.007	0.015	0.015
Field_ID	WellCode	Sample Date																							
4	DLW97-GW4	1/05/1997	9.7	-	5.6	-	19	-	-	-	-	-	0.17	-	27	-	3	-	0.923	0.046	-	-	-	-	-
6	DLW97-GW6	1/05/1997	9.7	-	5.6	-	19	-	-	-	-	-	0.17	-	27	-	3	-	0.923	0.046	-	-	-	-	-
7	DLW97-GW7	1/05/1997	6.5	-	4.1	-	89	-	-	-	-	-	0.184	-	21	-	1.6	-	0.31	0.048	-	-	-	-	-
12	DLW97-GW12	1/05/1997	3.2	-	1	-	0.423	-	-	-	-	-	1.3	-	30	-	0.245	-	1.7	<0.001	-	-	-	-	-
13	DLW97-GW13	1/05/1997	3.2	-	4.4	-	21	-	-	-	-	-	0.465	-	17	-	0.573	-	0.781	0.019	-	-	-	-	-
GW004	DLW97-GW4	22/08/2012	-	1.15	-	1.17	-	5.56	-	0.0001	-	0.132	-	0.027	-	9.05	-	0.017	-	-	<0.0001	-	4.07	-	0.208
GW006	DLW97-GW6	22/08/2012	-	2.19	-	1.39	-	72.6	-	<0.0001	-	0.014	-	0.011	-	37.4	-	0.125	-	-	0.0026	-	0.013	-	0.063
GW007	DLW97-GW7	22/08/2012	-	0.67	-	1.45	-	37	-	<0.0001	-	0.006	-	0.006	-	29.3	-	0.02	-	-	0.0005	-	0.013	-	0.051
GW013	DLW97-GW12	22/08/2012	-	0.05	-	1.21	-	34.5	-	<0.0001	-	0.011	-	0.01	-	90.5	-	0.002	-	-	0.0002	-	0.022	-	0.074

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table C8: Brick Analysis

		Antimony	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL										
NEPM 1999 EIL (bold)			20	3	1	100	600	1	60	200
NEPM 1999 HIL E			200	40	200	2000	600	30	600	14000
NSW 2008 General Solid Waste (No Leaching)			100	20	100		100	4	40	
NSW 2008 Restricted Solid Waste (No Leaching)			400	80	400		400	16	160	
USEPA RES		310								

Field ID	LocCode	Sample Date	Data Source									
Brick001	Brick Stockpile	16/08/2012	XRF	<17.87	<8.74	<15.23	<123.8	<22.66	<5.76	<6.34	<38.12	94.18
Brick001	Brick Stockpile	16/08/2012	XRF	<17.56	<2.65	<14.85	<125.2	<17.61	<6.55	<5.84	<37.29	17.05
Brick001	Brick Stockpile	17/08/2012	XRF	<16.89	12.21	<14.39	<130.8	<17.43	<6.33	<5.68	<36.71	21.79
Brick001	Brick Stockpile	17/08/2012	Lab	<5	<5	<1	6	<5	<5	3	10	-
Brick002	Brick Stockpile	16/08/2012	XRF	<17.31	18.55	<14.6	<125.3	<17.51	8.71	<5.97	<37.15	35.6
Brick002	Brick Stockpile	17/08/2012	Lab	<5	7	<1	11	6	6	6	14	-
Brick003	Brick Stockpile	16/08/2012	XRF	<17.3	12.56	<14.56	<114.6	<17.55	5.87	<6.15	<37.42	45.21
Brick004	Brick Stockpile	16/08/2012	XRF	<18.31	10.91	<15.4	<129.9	<19	<7.06	<6.45	<40.03	31.49
Brick005	Brick Stockpile	16/08/2012	XRF	<16.25	4.45	<13.86	<115.3	<16.2	<4.81	<5.4	<34.19	19.1
Brick006	Brick Stockpile	16/08/2012	XRF	<17.8	10.24	<15.12	<136	<18.15	<6.79	<6.06	<38.65	16.28
Brick007	Brick Stockpile	16/08/2012	XRF	<17.69	9.44	<14.9	<145.5	<18.34	<5.49	<6.06	<37.45	24.34
Brick008	Brick Stockpile	16/08/2012	XRF	<16.74	10.46	<14.31	<124.4	<17.52	<5.08	<5.89	<36.18	17.61
Brick009	Brick Stockpile	16/08/2012	XRF	<17.81	<3.81	<15.16	192.9	15.43	<6.78	<6.38	<38.59	35.76
Brick010	Brick Stockpile	16/08/2012	XRF	<16.47	<3.5	<14.09	<122.8	<16.74	<6.27	<5.6	<34.81	24.22
Brick011	Brick Stockpile	16/08/2012	XRF	<17.98	9.18	<15.27	<118.5	15.95	<7.18	<6.34	<38.63	60.31
Brick012	Brick Stockpile	16/08/2012	XRF	<17.7	7.86	<15.04	151.3	18.29	<5.51	<6.13	<38.03	35.3
Brick013	Brick Stockpile	16/08/2012	XRF	<16.53	<2.29	<14.09	<125.4	<16.33	<5.24	<5.4	<35.03	7.82
Brick014	Brick Stockpile	16/08/2012	XRF	<16.92	4.26	<14.44	<124.1	<16.79	<6.31	<5.69	<35.33	27.31
Brick015	Brick Stockpile	16/08/2012	XRF	<17.25	5.9	<14.63	<128.3	<17.62	<6.04	<5.82	<36.8	15.45
Brick016	Brick Stockpile	16/08/2012	XRF	<18.18	7.22	<15.39	<135.9	23.65	9.38	<6.45	<38.79	43.9
Brick017	Brick Stockpile	16/08/2012	XRF	<17.34	6.31	<14.75	<129.7	<17.58	<5.41	<6.06	<36.67	28.39
Brick018	Brick Stockpile	16/08/2012	XRF	<16.78	6.09	<14.26	<128.8	<17.08	<6.32	<5.74	<35.77	18.31
Brick019	Brick Stockpile	16/08/2012	XRF	<17.22	5.58	<14.68	<128.4	<17.23	<6.52	<5.84	<36.71	25.23
Brick020	Brick Stockpile	16/08/2012	XRF	<18.16	9.05	<15.28	<130	17.7	<5.57	<6.43	<39.31	70.24
Brick021	Brick Stockpile	16/08/2012	XRF	<17.68	5.11	<15.01	<130.1	<18.41	<6.49	<5.95	<37.63	28.21
Brick022	Brick Stockpile	16/08/2012	XRF	<16.45	6.46	<14.1	<117	<16.46	<6.23	<5.5	<34.4	50.22
Brick023	Brick Stockpile	16/08/2012	XRF	<17.87	8.74	<15.23	<123.8	22.66	<5.76	<6.34	<38.12	94.18

Note: Highlighted cells with a '<' symbol may not necessarily constitute an assessment criteria exceedance

Table 9: SOIL QA/QC Data

[illegible]

*RPDs have only been considered where a concentration is greater than 1 times the EQL

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Trip Blanks

			Antimony	Arsenic
			mg/kg	mg/kg
EQL			5	5
ANZECC (2000) Interim Sediment Quality Guidelines - High			25	70
NEPM 1999 HILE				200
USEPA RES			310	

Field ID	Sampled Date-Time	Matrix Description		
TB01	6/08/2012	soil	<5	<5
TB02	6/08/2012	soil	<5	<5

Rinsate Samples

		Antimony	Arsenic
		mg/L	mg/L
EQL		0.001	0.001
Field_ID	Sampled_Date/Time		
RB01	15/08/2012	1.64	2.35
RB02	15/08/2012	1.24	3.59
RB03	16/08/2012	0.028	0.009
RB04	15/08/2012	0.013	0.005
RB05	16/08/2012	0.01	0.004

Table 9: SOIL QA/QC Data

		SDG		ES1223935			ES1223935			ES1223935			ES1223935			ES1220305			ES1220305			ES1220305			ES1220305			ES1220305			ES1220305								
		Field_ID		BH032_0.3-0.5			BHDUP01			BH012_0.0-0.1			BHDUP08			BH075_1.8-2.0			BHLABDUP01			BH004_0.0-0.2			BHLABDUP02			BH031_1.0-1.2			BHLABDUP03			SE050_0.0-0.1			SELABDUP01		
		Sampled_Date		14/08/2012			14/08/2012			16/08/2012			16/08/2012			15/08/2012			15/08/2012			16/08/2012			16/08/2012			15/08/2012			15/08/2012			15/08/2012					
				RPD			RPD			RPD			RPD			RPD			RPD			RPD			RPD			RPD			RPD			RPD					
Method_Type		ChemName	Units	EQL																																			
1M HCl Extractable Metals	Aluminium	mg/kg	50																																				
	Antimony	mg/kg	1																																				
	Arsenic	mg/kg	1																																				
	Cadmium	mg/kg	0.1																																				
	Chromium (III+VI)	mg/kg	1																																				
	Cobalt	mg/kg	0.5																																				
	Copper	mg/kg	1																																				
	Iron	mg/kg	50																																				
	Lead	mg/kg	1																																				
	Manganese	mg/kg	10																																				
	Nickel	mg/kg	1																																				
	Silver	mg/kg	1																																				
	Vanadium	mg/kg	2																																				
	Zinc	mg/kg	1																																				
1M HCl Extractable Metals by ICPMS	Selenium	mg/kg	0.5																																				
Leachable Mercury by FIMS (leached)	Mercury (Filtered)	mg/l	0.001																																				
Leachable Metals by ICPAES (leached)	Aluminium (Filtered)	mg/l	0.1																																				
	Antimony (Filtered)	mg/l	0.1																																				
	Arsenic (Filtered)	mg/l	0.1																																				
	Cadmium (Filtered)	mg/l	0.05																																				
	Chromium (III+VI) (Filtered)	mg/l	0.1																																				
	Copper (Filtered)	mg/l	0.1																																				
	Lead (Filtered)	mg/l	0.1																																				
	Nickel (Filtered)	mg/l	0.1																																				
	Zinc (Filtered)	mg/l	0.1																																				
Moisture Content	Moisture	%	1 (Primary): 0.5 (Interlab)										39.4	40.0	2	9.2	9.7	5	24.2	24.0	1	14.5	12.0	19															
pH (1:5)	pH (Lab)	pH_Units	0.1																						4.3														
TCLP for Non & Semivolatile Analytes (leached)	pH (after HCL)	pH_Units	0.1																																				
	pH (Final)	pH_Unit	0.1																																				
	pH (Initial)	pH_Units	0.1																																				
	TCLP Fluid	-	1																																				
Total Cyanide by Segmented Flow Analyser	Cyanide Total	mg/kg	1																							<1.0													
Total Mercury by FIMS	Mercury	mg/kg	0.1 (Primary): 0.05 (Interlab)										0.2	0.18	11	61.2	42.0	37	58.3	15.0	118	1.9	0.85	76															
Total Metals by ICP-AES	Aluminium	mg/kg	50 (Primary): 1 (Interlab)	3450.0	3120.0	10	13100.0	13400.0	2																990.0	840.0	16												
	Antimony	mg/kg	5 (Primary): 3 (Interlab)	6070.0	6070.0	0	<5.0	9.0	57	36.0	55.0	42	4700.0	7800.0	50	9670.0	7100.0	31	626.0	270.0	79																		
	Arsenic	mg/kg	5 (Primary): 3 (Interlab)	3620.0	4000.0	10	16.0	12.0	29	129.0	51.0	87	1950.0	2200.0	12	5280.0	4700.0	12	1370.0	450.0	101																		
	Cadmium	mg/kg	1 (Primary): 0.3 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	3.0	0.5	143	<1.0	0.4	0	<1.0	<0.3	0	<1.0	<0.3	0																		
	Chromium (III+VI)	mg/kg	2 (Primary): 0.3 (Interlab)	34.0	44.0	26	15.0	15.0	0	10.0	10.0	0	18.0	27.0	40	9.0	9.8	9	4.0	1.4	96																		
	Copper	mg/kg	5 (Primary): 0.5 (Interlab)	231.0	111.0	70	12.0	13.0	8	30.0	52.0	54	136.0	250.0	59	21.0	18.0	15	47.0	22.0	72																		
	Iron	mg/kg	2 (Primary): 0.3 (Interlab)	17600.0	21200.0	19	25400.0	29400.0	15																														
	Lead	mg/kg	5 (Primary): 1 (Interlab)	996.0	1450.0	37	12.0	12.0	0	17.0	17.0	0	150.0	73.0	69	133.0	180.0	30	69.0	39.0	56																		
	Nickel	mg/kg	2 (Primary): 0.5 (Interlab)	<2.0	<2.0	0	5.0	5.0	0	3.0	2.3	26	<2.0	1.6	0	9.0	12.0	29	<2.0	<0.5	0																		
	Zinc	mg/kg	5 (Primary): 0.5 (Interlab)	39.0	42.0	7	8.0	9.0	12	76.0	22.0	110	47.0	70.0	39	24.0	25.0	4	20.0	18.0	11																		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL)
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row that are not matched are shown in grey.

Trip Blanks

			Antimony
EQL			5
ANZECC (2000) Interim Sediment Quality Guidelines - High			25
NEPM 1999 HIL E			
USEPA RES			310

Field ID	Sampled Date-Time	Matrix	Description
TB01	6/08/2012	soil	<5
TB02	6/08/2012	soil	<5

Table 10: WATER QA/QC Duplicate Data

		SDG		ES1220550	ES1220550	RPD	ES1220550	Interlab_D	RPD
		Field_ID	Sampled_Date-Time	SW003	SWDUP01		GW006	GWLABDUP01	
				22/08/2012	22/08/2012		22/08/2012	22/08/2012	
Method Type	ChemName	Units	EQL						
Alkalinity by PC Titrator	Alkalinity (total) as CaCO3	mg/l	1 (Primary): 50 (Interlab)	4.0	4.0	0	285.0	300.0	5
	Alkalinity (Bicarbonate as CaCO3)	mg/l	1	4.0	4.0	0			
	Alkalinity (Carbonate as CaCO3)	mg/l	1	<1.0	<1.0	0			
	Alkalinity (Hydroxide) as CaCO3	mg/l	1	<1.0	<1.0	0			
Chloride by Discrete Analyser	Chloride	mg/l	1 (Primary): 0.05 (Interlab)	33.0	33.0	0	184.0	170.0	8
Dissolved Mercury by FIMS	Mercury (Filtered)	mg/l	0.0001	<0.0001	<0.0001	0			
Dissolved Metals by ICP-MS - Suite A	Aluminium (Filtered)	mg/l	0.01 (Primary): 0.001 (Interlab)	0.19	0.21	10	2.19	2.0	9
	Antimony (Filtered)	mg/l	0.001	0.12	0.112	7	1.39	5.1	114
	Arsenic (Filtered)	mg/l	0.001	0.118	0.116	2	72.6	20.0	114
	Cadmium (Filtered)	mg/l	0.0001	<0.0001	<0.0001	0	<0.0001	<0.0001	0
	Chromium (III+VI) (Filtered)	mg/l	0.001	<0.001	<0.001	0	0.014	0.013	7
	Copper (Filtered)	mg/l	0.001	0.012	0.011	9	0.011	0.01	10
	Iron (Filtered)	mg/l	0.05 (Primary): 0.005 (Interlab)	1.21	1.23	2	37.4	6.1	144
	Lead (Filtered)	mg/l	0.001	0.003	0.003	0	0.125	0.16	25
	Nickel (Filtered)	mg/l	0.001	<0.001	<0.001	0	0.013	0.01	26
	Zinc (Filtered)	mg/l	0.005 (Primary): 0.001 (Interlab)	0.032	0.031	3	0.063	0.036	55
Ionic Balance by PCT DA and Turbi SO4 DA	Anions Total	meq/L	0.01	1.05	1.05	0			
	Cations Total	meq/L	0.01	1.07	1.07	0			
Major Cations - Dissolved	Calcium (Filtered)	mg/l	1 (Primary): 0.1 (Interlab)	2.0	2.0	0	12.0	13.0	8
	Magnesium (Filtered)	mg/l	1 (Primary): 0.1 (Interlab)	2.0	2.0	0	20.0	21.0	5
	Potassium (Filtered)	mg/l	1 (Primary): 0.2 (Interlab)	1.0	1.0	0	8.0	8.5	6
	Sodium (Filtered)	mg/l	1 (Primary): 0.1 (Interlab)	18.0	18.0	0	194.0	190.0	2
Sulfate (Turbidimetric) as SO4 2- by Discrete Anal	Sulphate	mg/l	1 (Primary): 0.1 (Interlab)	2.0	2.0	0	<10.0	29.0	97
Suspended Solids (High Level)	Total Suspended Solids	mg/l	5	9.0	9.0	0	1190.0	15000.0	171
Total Cyanide By Discrete Analyser	Cyanide Total	mg/l	0.004 (Primary): 0.005 (Interlab)	<0.004	<0.004	0	0.597	1.3	74
Total Dissolved Solids (High Level)	Total Dissolved Solids	mg/l	10	107.0	106.0	1	970.0	960.0	1
Total Metals by ICP-MS - Suite A	Aluminium	mg/l	0.01	0.25	0.25	0			
	Antimony	mg/l	0.001	0.139	0.154	10			
	Arsenic	mg/l	0.001	0.171	0.171	0			
	Cadmium	mg/l	0.0001	<0.0001	<0.0001	0			
	Chromium (III+VI)	mg/l	0.001	<0.001	<0.001	0			
	Copper	mg/l	0.001	0.017	0.014	19			
	Iron	mg/l	0.05	1.72	1.71	1			
	Lead	mg/l	0.001	0.005	0.006	18			
	Nickel	mg/l	0.001	<0.001	<0.001	0			
	Zinc	mg/l	0.005	0.026	0.03	14			

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Appendix D - Aerial Photographs