



WERRIS CREEK COAL PTY LTD

ENVIRONMENTAL MONITORING

3rd QUARTERLY REPORT

October, November, December 2007

This report covering the period 1st October 2007 to 31st December 2007 is the third quarterly Environmental Monitoring Report for the 2007/8 Annual Environmental Management Report (AEMR) reporting period (1 April 2007 to 31 March 2008).

The report includes environmental monitoring results for the on-site Weather Station, Air Quality, Noise (operational and blasting), Surface and Ground Water together with complaints received and general detail covering site environmental matters.

Note: Monitoring results with any non compliance of monitoring criteria are highlighted in **yellow**.

15 January 2008

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Appendices

Appendix 1Deposited Dust Monitoring Results
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Appendix 4Ground Water Monitoring Results
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Figure 2

1.0 WEATHER STATION

WEATHER

Weather data was available for 100 % of October.

Weather data was available for 100 % of November.

Weather data was available for 25% of December. Data loss was due to battery malfunction and power loss to the on-site computer which has since been rectified. Weather Station computer was relocated to the WCC site office in December 2007.

2.0 AIR QUALITY

2.1 HVAS (PM10) Monitoring

High Volume Air Sample (HVAS) monitoring for particulate matter less than 10 micron in size (PM10) is conducted at four sites as shown on the attached plan, **Figure 2** and labeled as listed below.

- WCHV1 – “Old Colliery” or Marquettes
- WCHV2 – Pattersons
- WCHV3 – “Railway View” or Ryans
- WCHV4 – “Eurunderee”

In addition a fifth site WCHV5 at “Railway View” continues to sample total suspended particulate (TSP) matter to monitor the PM10/TSP relationship on a voluntary basis to assist with government departmental air quality data collection and correlation.

Sample data is scheduled for 24 hours every 6 days in accordance with DECC – EPA protocols and results are reported as micro grams per cubic metre of air sampled or ug/m3.

2.1.1 Monitoring Data Results

Data recovery from each site during the period was 100%.

Werris Creek HVAS results

Date	WCHV-1 Marquett (PM10)	WCHV-2 Patterson (PM10)	WCHV-3 Ryan 6	WCHV-4 Eurunderee (PM10)	WCHV-5 Ryan TSP	24hr criteria PM10	annual criteria PM10	TSP	PM10/TS P Ratio	PM10/TSP Ratio moving ave
2/10/2007	32	24	29	42	46	50	30	90	63%	49%
8/10/2007	24	20	19	27	42	50	30	90	45%	44%
14/10/2007	13	12	9	14	32	50	30	90	28%	44%
20/10/2007	23	24	27	47	45	50	30	90	60%	60%
26/10/2007	14	12	9	12	16	50	30	90	56%	58%
1/11/2007	13	29	38	31	52	50	30	90	73%	63%
7/11/2007	8	5	8	12	17	50	30	90	47%	59%
13/11/2007	8	5	8	12	17	50	30	90	47%	57%
19/11/2007	52	16	1	20	68	50	30	90	1%	47%
25/11/2007	7	7	6	10	11	50	30	90	55%	48%
1/12/2007	9	11	10	9	12	50	30	90	83%	53%
7/12/2007	23	17	20	24	27	50	30	90	74%	55%
13/12/2007	26	16	17	22	20	50	30	90	85%	58%
19/12/2007	16	15	18	21	29	50	30	90	62%	59%
25/12/2007	17	18	18	18	30	50	30	90	60%	59%
31/12/2007	18	24	20	19	29	50	30	90	69%	59%

2.1.2 Discussion - Compliance / Non Compliance

During November 2007 one PM 10 site (Marquette) exceeded the short term 24-hour impact criteria of $50\mu\text{g}/\text{m}^3$ on one run day (19th November 2007).

All other individual PM10 24 hour average results, at all sites, were equal to or below the short term 24 hour impact criteria of $50\mu\text{g}/\text{m}^3$.

All PM10 sites are below the long term impact and land acquisition annual impact criteria of $30\mu\text{g}/\text{m}^3$.

The TSP site is below the long term impact and land acquisition annual impact criteria of $90\mu\text{g}/\text{m}^3$.

2.2 DEPOSITED DUST

Limits were removed from Environment Protection Licence 12290 pertaining to mean annual dust deposition, however, in accordance with commitments within the approved Air Quality Monitoring Programme, monthly routine air quality monitoring for Werris Creek Coal continues to be undertaken for deposited dust.

2.2.1 Monitoring Data Results

See Appendix 1. Please note that December results are not included due to delays in receiving results.

2.3 AIR QUALITY COMPLAINTS

No Complaints Received .

3.0 NOISE

Noise Monitoring is conducted by Spectrum Acoustics at the following locations:

R2: Zeolite, R3: Cinta, R4: Old Colliery, R5: Mountain View, R6: Hillview (mine owned residence) R7: Railway View, R8: Hazeldene, and R10: Escott. Three sets of measurements are made over the "circuit", one during the day time period, (before 6pm), one during the evening period (from 6pm – 10pm) and one at night (after 10pm).

The noise emission criterion for WCC is 35dB(A) at all times unless otherwise subject to a current, legally binding agreement between WCC and the occupant of the affected residential property. Hillview is a mine owned residence and as such monitoring results above 35dB(A) are not recorded as non-compliances

3.1 OPERATIONAL NOISE

3.1.1 Monitoring Data Results

See Appendix 2.

3.1.2 Discussion - Compliance / Non Compliance

October 2007 noise monitoring results indicated exceedances at Railway View during each monitoring period, the criterion was also exceeded at Old Colliery during the day and evening and at Cintra during the day (dozer working on coal stockpile). Contributing factors to noise exceedance was engine noise from haul trucks in pit and on dumps and shovel working in pit. At Zeolite the 37dB(A) recorded during the night is within the additional 5dB(A) agreed limit of 40dB(A) .

November 2007 noise monitoring results only showed exceedances of agreed operational noise limits of 40dB(A) at Zeolite during the day and night survey. Noise was due to dozer working on coal stockpile near rail loader and from trucks arriving and departing the stockpile. Night exceedances was due to noise from dozer and a loader working on coal stockpile near rail loader and also from the train and train loading.

December 2007 noise monitoring results showed exceedances at Railway View during day and night monitoring periods, and at Old Colliery and Cintra during the day. Haul truck and shovel noise as well as noise from two blast hole rigs operating in front of the high wall was recorded. At Cintra the daytime exceedance was due to noise from the dozer working on coal stockpile near the rail loader and from trucks arriving and departing stockpile area. Evening and night time exceedances at Railway View were due to general noise emissions from the mine.

3.1.3 Action Taken

The ongoing issue of non-compliance with noise limits as raised by Department of Planning and DECC – EPA is currently subject to negotiations between WCC and affected landowners in an attempt to seek resolution as soon as possible.

3.2 NOISE COMPLAINTS

Nil Complaints were received regarding Noise.

4.0 BLAST

During this reporting period a total of 24 blasts numbered ORICA 34 to ORICA 58 were fired.

4.1 BLAST MONITORING

4.1.1 Monitoring Data Results

See Appendix 3.

4.1.2 Discussion - Compliance / Non Compliance

Shot 34 on 3/10/2007 resulted in higher Peak Overpressure (dBL) readings of 115.6 (Railway View) and 116.2 (Old Colliery). This is not a non compliance issue as up to 5% of blasts for the AEMR period are permitted within the 115 to 120dBL range. All blasts complied with the 120dBL limit.

4.1.3 Action Taken

No Actions necessary.

4.2 BLAST COMPLAINTS

Nil Complaints were received regarding Blasting.

5.0 WATER

Groundwater monitoring was undertaken in November 2007 due to Ecowise equipment failure in October 2007.

Surface water monitoring was undertaken in October 2007 by Ecowise Environmental. WCC Management requested Ecowise undertake a full analysis sweep of all surface water structures, - storage dams, sediment basins and farm dams to provide WCC with a complete set of results in addition to those required by DECC.

4.1 GROUND WATER

4.1.1 Monitoring Data Results

See Appendix 4.

4.1.2 Discussion - Compliance / Non Compliance

No recorded exceedances.

4.2 SURFACE WATER

4.2.1 Monitoring Data Results

See Appendix 5.

4.2.2 Discussion - Compliance / Non Compliance

No Surfacewater discharges during this period.

6.0 COMPLAINTS SUMMARY

Nil Complaints were received during this period.

7.0 GENERAL

Werris Creek Coal Pty Ltd became 100% ownership by Whitehaven Coal 1st December 2007.

6th Community Consultative Committee meeting was held 13th December 2007.

Letter dated 20 December 2007 received from Department of Planning in response to the 2006/2007 AEMR.

DEPOSITED DUST

APPENDIX 1
Results
October 07 - December 07

Date		Site																	
In	Out	WC-1 ("Escott")			WC-2 ("Cintra")			WC-3 ("The Colliery")			WC-4 ("Hillview")			WC-5 ("Railway View")			WC-6 (Southern Boundary)		
		Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %	Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %	Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %	Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %	Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %	Insoluble Matter g/m ² /month	Ash g/m ² /month	Ash Content %
5/10/07	5/11/07	1.3	0.8	62	3.4	1.8	53	5.5	1.1	20	2	1	50	1.5	0.9	60	3.8	2.7	71
5/11/07	3/12/07	1	0.5	50	1.2	0.6	50	4.8	1.6	33	0.7	0.4	57	0.7	0.4	57	5.9	4.6	78

NOISE MONITORING

DATE	TIME	RECEPTOR													
		R2	R3	R4	WCC	R5	WCC	R6	WCC	R7	WCC	R8	WCC	R10	WCC
		Zealite	Cintra	Old Colliery	WCC	Mountain View	WCC	Hillview	WCC	Railway View	WCC	Hazeldene	WCC	Escott	WCC
30-Oct-07	3:20pm	38	46	41	34	39	34	50	40	47	47	43	<30	43	AUDIBLE NOT MEASURABLE
30-Oct-07	7:30pm	43	33	42	39	32	AUDIBLE NOT MEASURABLE	62	49	47	46	33	MEASURABLE	33	26
30-Oct-07	10:08PM	40	31	39	35	33	30	44	38	42	42	37	35	34	30
27-Nov-07	3:10pm	45	40	43	35	51	wcc inaudible	44	35	43	wcc audible not measurable	48	wcc not audible	44	wcc audible not measurable
27-Nov-07	7:05pm	42	33	51	wcc Audible not measurable	38	wcc not audible	44	35	42	wcc barely audible	40	wcc not audible	41	wcc barely audible
28-Nov-07	10:30pm	43	42	36	33	30	33	45	27	36	35	32	<25	31	30
10-Dec-07	3:10pm	41	44	42	38	37	25	50	41	45	42	43	wcc not audible	48	<30
10-Dec-07	7:35pm	37	39	44	wcc Audible not measurable	40	wcc not audible	45	43	45	wcc barely audible	33	wcc not audible	45	32
10-Dec-07	10:10pm	38	37	41	33	33	wcc barely audible	42	35	46	45	35	wcc not audible	47	30

SHOT NO	DATE	MONITOR LOCATION	PEAK GROUND PRESSURE mm/s	PEAK OVER PRESSURE dBL	TIME
ORICA 34	3/10/2007	Glenala	0.08	109.9	1324
		Railway View	1.01	115.6	1324
		Old Colliery	1.18	116.2	1324
		Escott Road	0.51	105	1324
ORICA 35	5/10/2007	Glenala	D.N.T		1312
		Railway View	D.N.T		1312
		Old Colliery	D.N.T		1312
		Escott Road	0.38	95.8	1312
ORICA 36	10/10/2007	Glenala	D.N.T		1320
		Railway View	1.71	106.7	1320
		Old Colliery	1.23	114.4	1320
		Escott Road	D.N.T		1320
ORICA 37	11/10/2007	Glenala	D.N.T		1314
		Railway View	1.21	101.1	1314
		Old Colliery	0.75	98.1	1314
		Escott Road	D.N.T		1314
ORICA 38	17/10/2007	Glenala	D.N.T		1310
		Railway View	0.93	110.9	1310
		Old Colliery	1.88	110.5	1310
		Escott Road	D.N.T		1310
ORICA 39	19/10/2007	Glenala	D.N.T		1327
		Railway View	0.78	104.9	1327
		Old Colliery	0.55	86.8	1327
		Escott Road	D.N.T		1327
ORICA 40	26/10/2007	Glenala	D.N.T		1313
		Railway View	2.52	108.1	1313
		Old Colliery	1.05	1.05	1313
		Escott Road	D.N.T		1313
ORICA 41	1/11/2007	Glenala	D.N.T		1312
		Railway View	3.47	108.1	1312
		Old Colliery	2.05	83.3	1312
		Escott Road	0.46	94.6	1312
ORICA 42	6/11/2007	Glenala	D.N.T		1321
		Railway View	0.53	102.3	1321
		Old Colliery	0.43	100.2	1321
		Escott Road	0.08	109.8	1321
ORICA 43	9/11/2007	Glenala	D.N.T		1316
		Railway View	2.62	112.6	1316
		Old Colliery	2.05	106.2	1316
		Escott Road	0.87	101.8	1316
ORICA 44	13/11/2007	Glenala	D.N.T		1306
		Railway View	0.98	108.9	1306
		Old Colliery	0.7	83.3	1306
		Escott Road	D.N.T		1306
ORICA 45	16/11/2007	Glenala	D.N.T		1313
		Railway View	3.8	109.2	1313
		Old Colliery	1.9	102.9	1313
		Escott Road	0.33	103.7	13
ORICA 46	15/11/2007	Glenala	d.N.T		1316
		Railway View	0.5	105.2	1316
		Old Colliery	0.53	83.3	1316
		Escott Road	D.N.T		1316

SHOT NO	DATE	MONITOR LOCATION	PEAK GROUND PRESSURE mm/s	PEAK OVER PRESSURE dBL	TIME
ORICA 47	21/11/2007	Glenala	D.N.T		1312
		Railway View	2.87	106.7	1312
		Old Colliery	1.95	108.4	1312
		Escott Road	0.92	93.3	1312
ORICA 48	23/11/2007	Glenala	D.N.T		1325
		Railway View	0.33	109.7	1325
		Old Colliery	0.08	114.7	1325
		Escott Road	D.N.T		1325
ORICA 49	28/11/2007	Glenala	D.N.T		1308
		Railway View	1.36	110.9	1308
		Old Colliery	1.28	111.8	1308
		Escott Road	0.41	95.8	1308
ORICA 50	28/11/2007	Glenala	D.N.T		1308
		Railway View	1.36	110.9	1308
		Old Colliery	1.28	111.8	1308
		Escott Road	0.41	95.8	1308
ORICA 51	30/11/2007	Glenala	D.N.T		1312
		Railway View	0.48	104.6	1312
		Old Colliery	0.35	108.4	1312
		Escott Road	D.N.T		1312
ORICA 52	30/11/2007	Glenala	D.N.T		1312
		Railway View	0.48	104.6	1312
		Old Colliery	0.35	108.4	1312
		Escott Road	D.N.T		1312
ORICA 53	6/12/2007	Glenala	D.N.T		1308
		Railway View	0.78	107.5	1308
		Old Colliery	0.8	107.7	1308
		Escott Road	0.48	99.3	1308
ORICA 54	12/12/2007	Glenala	D.N.T		1312
		Railway View	2.54	109.4	1312
		Old Colliery	1.83	114.1	1312
		Escott Road	0.59	106.4	1312
ORICA 55	13/12/2007	Glenala	D.N.T		1309
		Railway View	0.83	110.5	1309
		Old Colliery	1.65	106.8	1309
		Escott Road	0.59	102.3	1309
ORICA 56	14/12/2007	Glenala	D.N.T		1308
		Railway View	1.11	114.7	1308
		Old Colliery	1.73	83.3	1308
		Escott Road	D.N.T		1308
ORICA 57	18/12/2007	Glenala	D.N.T		1319
		Railway View	1.18	105.4	1319
		Old Colliery	1.55	108.2	1319
		Escott Road	0.26	95.8	1319
ORICA 58	19/12/2007	Glenala	D.N.T		1309
		Railway View	0.73	110.3	1309
		Old Colliery	1.43	102.4	1309
		Escott Road	0.69	102.8	1309

Sample Num	Sample Location	Sample Date	Sampler	Alkalinity - Total as CaCO ₃ mg/L	Arsenic - filterable mg/L	Arsenic mg/L	Cadmium - filterable mg/L	Cadmium mg/L	Calcium - filterable mg/L	Calcium - total mg/L	Chloride mg/L	Chromium - filterable mg/L	Chromium - hexavalent mg/L	Chromium - total mg/L	Chromium mg/L	Copper - filterable mg/L	Depth to Ground - metres	Depth to Standpipe - metres	Electrical Conductivity uS/cm	Electrical Conductivity uS/cm - field	Full Metal Scan - filtered	Lead - filterable mg/L	
28531.01	MW1 - Hillview	13-Nov-07	A Papalika EEL	455	<0.001	1	<0.000005	71	98	182	587	<0.001	<0.005	<0.005	0.0043	51.0	51.26	970	0.00037			0.00037	
28531.02	MW2 - Railway View	13-Nov-07	A Papalika EEL	370	0.021	0.021	0.00091	587	182	182	587	0.029	<0.005	<0.005	0.0033	27.21	27.35	2330	<0.000005			<0.000005	
28531.03	MW3 - Eurunderee	13-Nov-07	A Papalika EEL	395	0.002	0.002	0.00008	60	42	42	60	0.007	<0.005	<0.005	0.0017	8.52	9.22	810	<0.000005			<0.000005	
28531.04	MW4 - Piezo 1	13-Nov-07	A Papalika EEL	415	<0.001	1	<0.000005	617	238	238	617	0.001	<0.005	<0.005	0.0006	9.39	10.02	2620	<0.000005			<0.000005	
28531.05	MW4B	13-Nov-07	A Papalika EEL	730	0.002	0.002	<0.000005	241	85	85	241	0.001	<0.005	<0.005	<0.0005	8.47	9.59	1930	<0.000005			<0.000005	
28531.06	MW5	13-Nov-07	A Papalika EEL	162	0.002	0.002	<0.000005	64	52	52	64	<0.001	<0.005	<0.005	<0.0005	4.36	4.48	520	<0.000005			<0.000005	
28531.07	MW6	13-Nov-07	A Papalika EEL	390	<0.001	1	0.00005	195	126	126	195	0.007	<0.005	<0.005	0.0011	15.92	16.43	1300	0.00013			0.00013	
28531.08	MW7 - Rosehill	13-Nov-07	A Papalika EEL	535	<0.001	1	<0.000005	60	114	114	60	<0.001	<0.005	<0.005	<0.0005	13.76	14.84	1070	<0.000005			<0.000005	
28531.09	MW8 - Roseneath	13-Nov-07	A Papalika EEL	380	<0.001	1	<0.000005	362	95	95	362	<0.001	<0.005	<0.005	0.0013	17.83	18.08	1890	<0.000005			<0.000005	
28531.10	MW9 - Rail Siding	13-Nov-07	A Papalika EEL	455	0.002	0.002	<0.000005	156	55	55	156	<0.001	<0.005	<0.005	0.014	7.83	8.08	1290	0.00075			0.00075	
28531.11	MW10 - Turnbulls	13-Nov-07	A Papalika EEL	350	0.001	0.001	<0.000005	131	61	61	131	0.002	<0.005	<0.005	0.001	7.64	8.14	910	<0.000005			<0.000005	
28531.12	MW11 - Turnbull's Gap Bore	13-Nov-07	A Papalika EEL	220	0.001	0.001	<0.000005	117	47	47	117	<0.001	<0.005	<0.005	0.0007	5.35	5.84	750	<0.000005			<0.000005	
28531.13	MW12 - Hazeldene	13-Nov-07	A Papalika EEL	490	<0.001	1	<0.000005	50	60	60	50	0.004	<0.005	<0.005	0.0006	15.87	16.79	1050	<0.000005			<0.000005	
28531.14	MW13 - Parkhill	13-Nov-07	A Papalika EEL																				
28531.15	MW14	13-Nov-07	A Papalika EEL																				

Lead - filterable mg/L	Magnesium - filterable mg/L	Magnesium - total mg/L	Manganese - filterable mg/L	Manganese - filterable mg/L	Mercury - filterable mg/L	Mercury mg/L	Nickel - filterable mg/L	Nitrates mg/L	Oil & Grease mg/L	pH	pH - field	Phosphorus - reactive mg/L	Potassium - filterable mg/L	Potassium - total mg/L	Sodium - total mg/L	Sulfates - filterable mg/L	Sulfates mg/L	Time: (w)	Total Nitrogen mg/L	Total Petroleum Hydrocarbons mg/L	Total Phosphorus mg/L	Total Suspended Solids @105C mg/L	Zinc - filterable mg/L
	60		<0.001		<0.0001		0.001	5.5		7.2		0.09		0.51	54		3	1315		<2	0.4		0.12
	108		<0.001		0.0001		0.005	0.54		7.4		0.29		24	137		57	800	<2	<2	1.5	<0.005	
	29		1.1		<0.0001		0.009	0.03		7.4		<0.01		4.1	117		<2	1227	<2	<2	0.8	<0.005	
	128		0.01		<0.0001		0.004	2.2		7		<0.01		1.5	154		66	835	<2	<2	0.32	<0.005	
	92		0.005		<0.0001		0.002	4.3		7.1		0.04		0.84	246		37	1145	<2	<2	0.05	<0.005	
	23		0.003		<0.0001		<0.001	1.4		7.2		0.05		1	42		24	1000	<2	<2	0.37	<0.005	
	63		0.006		<0.0001		0.028	5.4		7		0.01		1.8	79		55	1040	<2	<2	1.1	0.015	
	58		0.001		0.0001		0.002	11		7		<0.01		1.2	71		23	1405	<2	<2	0.03	<0.005	
	124		<0.001		<0.0001		0.002	24		7.6		<0.01		0.83	108		56	1348	<2	<2	0.01	<0.005	
	67		0.001		<0.0001		0.001	13		7.4		0.02		0.62	122		31	1330	<2	<2	0.04	0.006	
	43		0.039		<0.0001		0.002	2.4		7.3		0.02		1.7	65		65	1115	<2	<2	0.18	0.009	
	36		0.001		<0.0001		0.001	2.3		6.9		0.06		1.4	47		37	1023	<2	<2	0.09	<0.005	
	66		0.067		<0.0001		0.002	20		7.1		0.01		1.9	65		12	1448	<2	<2	0.65	<0.005	

Sample No	Sample Location	Sample Date	Sampler	Alkalinity - Total as CaCO3 mg CaCO3/L	Arsenic_mg/L	Cadmium - filterable_mg/L	Cadmium_mg/L	Calcium - total mg/L	Chloride mg/L	Chromium - hexavalent_mg/L	Chromium_mg/L	Copper - filterable_mg/L	Depth to Ground metres	Depth to Standpipe - metres	Electrical Conductivity µS/cm - field	Electrical Conductivity µS/cm - lab	External Analysis - EEL (Fyshwick)	Lead - filterable_mg/L	Magnesium - total mg/L	Manganese - filterable_mg/L	Mercury_mg/L	Nickel - filterable_mg/L	Nitrates_mg N/L	Nitrites_mg N/L	NO SAMPLE: (w)	Oil & Grease mg/L
28256.01	Farm Dam 4	11-Oct-07	Papalark EEL	44	0.001	<0.00005	18	18	18	<0.005	0.016	0.006			130	130		0.00024	2.2	0.005	<0.0001	0.002	0.03		<2	
28256.02	Farm Dam 2	11-Oct-07	Papalark EEL	116	<0.001	<0.00005	75	75	206	<0.005	0.001	0.001			1220	1190		<0.00005	31	0.021	<0.0001	0.004	7.7		<2	
28256.03	MV Dewatering Dam	10-Oct-07	Papalark EEL	254	0.001	<0.00005	72	72	135	<0.005	<0.001	0.006			1050	1020		<0.00005	24	0.004	<0.0001	0.005	6.6		<2	
28256.04	Farm Dam 3	11-Oct-07	Papalark EEL	44	0.004	<0.00005	16	16	28	<0.005	0.016	0.0023			190	180		<0.00005	4.2	0.019	<0.0001	0.002	0.12		<2	
28257.01	SD3A	11-Oct-07	Papalark EEL	94	0.002	<0.00005	15	15	7	<0.005	<0.002	0.0047			200	200		<0.00005	5.3	0.002	<0.0001	0.006	0.04		<2	
28257.02	SB3	11-Oct-07	Papalark EEL	127	<0.001	<0.00005	20	20	67	<0.005	<0.002	0.0021			500	505		<0.00005	15	0.001	<0.0001	<0.005	1.9		<2	
28257.03	SB4	11-Oct-07	Papalark EEL	98	0.001	<0.00005	18	18	42	<0.005	<0.002	0.0021			400	395		<0.00005	12	0.018	<0.0001	<0.005	0.08		<2	
28257.04	SB5	11-Oct-07	Papalark EEL	84	0.002	<0.00005	36	36	50	<0.005	0.004	0.0015			450	450		<0.00005	15	0.006	<0.0001	<0.005	0.63		<2	
28257.05	SB6	11-Oct-07	Papalark EEL	30	0.001	<0.00005	31	31	89	<0.005	<0.002	0.0016			500	460		<0.00005	15	0.15	<0.0001	<0.005	30		<2	
28257.06	SB7	11-Oct-07	Papalark EEL	210	0.001	<0.00005	93	93	248	<0.005	<0.002	0.0019			1510	1460		<0.00005	38	0.003	<0.0001	<0.005	10		<2	
28257.07	SB8	11-Oct-07	Papalark EEL	170	<0.001	<0.00005	118	118	237	<0.005	<0.002	0.002			1350	1300		<0.00005	33	1.2	<0.0001	<0.005	0.64		<2	
28258.01	MV1	11-Oct-07	Papalark EEL	387	0.003	<0.00005	112	112	92	<0.005	<0.001	0.0025			520	530		<0.00005	17	0.057	<0.0001	<0.005	1.3		<2	
28258.02	SD1	11-Oct-07	Papalark EEL	55	0.003	<0.00005	12	12	7	<0.005	0.006	0.0035			110	100		0.00075	8.9	0.19	<0.0001	0.006	0.02		<2	
28258.03	SD2	11-Oct-07	Papalark EEL	98	0.004	<0.00005	20	20	7	<0.005	0.002	0.0024			200	200		0.0001	4.7	0.018	<0.0001	0.004	<0.01		<2	
28258.04	SD3	11-Oct-07	Papalark EEL	133	0.001	<0.00005	22	22	11	<0.005	0.001	0.0025			260	260		0.00005	13	0.009	<0.0001	0.008	<0.01		<2	
28258.05	SD4	11-Oct-07	Papalark EEL	109	0.002	<0.00005	20	20	7	<0.005	0.004	0.0043			210	220		<0.00005	12	0.006	<0.0001	0.004	<0.01		<2	
28258.06	SD5	11-Oct-07	Papalark EEL	85	0.002	<0.00005	13	13	11	<0.005	0.017	0.0072			170	160		0.00021	5.4	0.007	<0.0001	0.007	0.02		<2	
28258.07	SD6	11-Oct-07	Papalark EEL	228	0.008	<0.00005	9.8	9.8	18	<0.005	0.018	0.0068			490	500		0.0008	3.7	0.001	<0.0001	0.004	0.02		<2	
28258.08	SD7	11-Oct-07	Papalark EEL	146	0.001	<0.00005	21	21	48	<0.005	0.001	0.0042			40	475		<0.00005	13	0.001	<0.0001	0.004	0.51		<2	
28258.09	SD8	11-Oct-07	Papalark EEL	NO SAMPLE																						
28258.1	SD9	11-Oct-07	Papalark EEL	54	0.002	<0.00005	17	17	18	<0.005	0.018	0.0046			170	180		0.00019	3.6	0.039	<0.0001	0.005	0.63		<2	
28258.11	SD10	11-Oct-07	Papalark EEL	NO SAMPLE - DRY																						
28258.12	SD11	11-Oct-07	Papalark EEL	42	<0.001	<0.00005	12	12	11	<0.005	0.011	0.0051			110	110		0.00014	2	0.008	<0.0001	0.002	1.6		<2	
28266.01	THE BORE	11-Oct-07	Papalark EEL										56.63	57.08												
28266.02	WC42	11-Oct-07	Papalark EEL										46.13	46.21												
28266.03	WC41	11-Oct-07	Papalark EEL										53.08	53.26												

pH - field	pH - lab	Phosphorus - reactive mg/L	Potassium - total mg/L	Sodium - total mg/L	Sulfates mg/L	Time: (w)	Total Nitrogen mg/L	Total Petroleum Hydrocarbons mg/L	Total Phosphorus mg/L	Total Suspended Solids @105C mg/L	Zinc - filterable mg/L	Comments
9.8	9.8	0.25	6	7.2	12	1552	1.4	<2	0.56	122	<0.005	
8.2	8	0.01	18	106	203	1817	9.6	<2	0.09	45	<0.005	
7.9	7.8	<0.01	15	94	100	847	7.8	<2	0.02	13	<0.005	
7	7.6	0.01	15	8.6	21	815	1.5	<2	0.45	37	0.006	
8.2	8.2	0.74	5.3	13	<2	1220	1.1	<2	0.8	15	<0.005	
8.4	8.5	<0.01	4.6	58	46	1305	2.6	<2	0.07	18	<0.005	
8.4	8.3	0.02	3.9	46	46	1320	0.68	<2	0.04	29	<0.005	
8.2	8.2	0.04	5.6	23	74	1335	1.9	<2	0.07	131	<0.005	
7.2	7.6	0.2	4.1	18	33	1430	34	<2	0.69	217	<0.005	
8.2	7.3	0.05	17	134	181	1445	12	<2	0.1	83	<0.005	
7.9	7.7	<0.01	33	82	206	1500	5.7	<2	0.07	132	<0.005	
8.7	8.7	<0.01	12	29	73	1510	0.67	<2	0.08	16	<0.005	
7.6	7.6	<0.01	14	92	68	830	1.3	<2	0.03	38	0.013	
8.1	8	0.36	17	2.9	20	1115	1.6	<2	0.61	11	0.005	
7.9	7.8	0.45	7.1	10	<2	1135	1.2	<2	0.57	14	0.008	
9	8.8	0.05	4.4	21	<2	1205	1.2	<2	0.17	7	<0.005	
8	8	0.49	5	18	15	910	1.4	<2	0.67	17	<0.005	
8.6	8.2	0.83	4.8	19	<2	947	2.3	<2	0.94	14	0.022	
8.7	8.5	0.62	3.8	108	12	1000	1.3	<2	0.99	217	<0.005	
8.7	8.7	0.08	4.4	69	40	1015	1.2	<2	0.21	11	<0.005	
7.6	7.8	0.07	15	17	35	1410	2.4	<2	0.15	42	0.009	
7.8	7.7	0.66	11	5.7	4	1530	2.7	<2	0.74	5	0.011	
6.4												
6.6												
6.5												

