OneSteel Mayfield Site License 11149 Link to Licence http://www.environment.nsw.gov.au/prpoeoapp/
OneSteel Wire Pty Ltd
Industrial Dive Mayfield
NSW 2304
2015 – 6th Monthly Groundwater Monitoring Summary of Results
Samples taken during February 2015 and Reported April 2015.

Location	E5	M1/2S	M7/2	M8/2	M8/5	M8/9	E13	E6	F12	F3	M2/1W	M6/1	M8/1EE	W3E	W3F	W4F	W5F	W6E	W6F	W7E	W7F	W8/E	W8/F	M9/4	W9E	E7	F4A	F6	F7	E12	E2A	E3A	E4
EPA Identifier	22	34	35	38	36	37	9	8		17	29	32	26	3	10	11	12	4	13	5	14	6	15	7	31	23	25	30	24	27	19	20	21
Field Parameters																																	
pH	7.22	7.88	11.3	7.46	8.92	8.95	7.73	7.15	n/a	6.74	7.44	11.23	7.76	7.91	8.52	12.11	11.81	7.44	9.19	8.21	7.4	7.99	7.6	7.91	7.39	7.05	6.75	-	-	6.01	7.36	8.28	8.24
Electrical Conductivity	3848	1181	786	888	681	977	7320	2030	n/a	1805	3895	1619	1274	2850	3186	5105	4471	4544	1115	9820	6101	1578	778	670	233.6	7.8	16827	-	-	820	17.25	741	765
Dissolved Oxygen	1.29	1.46	6.86	0.34	0.65	0.34	0.2	0.12	n/a	0.68	1.45	0.26	0.4	0.27	1.88	0.19	0.28	0.15	2.53	3.02	1.37	0.83	5.4	0.32	1.3	1.82	3.81	-	-	0.31	1.29	2.35	3.55
Reduction Potential	1.1	-179.9	88.2	118	144	-	-223	-230.4	n/a	-238.1	-62.1	-276	-18	-60.2	6.3	-308.6	-331	-151	-200.1	-181	-123.2	-45.7	88	27.1	-13.1	41.8	79	-	-	-201	-120.5	-198	-
Temperature	23.1	23.3	23.5	22.2	22.8	24.7	20.6	22.9	n/a	22.1	21.2	22.3	22.9	21.1	21.1	22.7	23.2	20.8	22	22.6	22.2	23.3	23.3	23.9	23.7	22.3	23.1	-	-	23.2	23.1	23	24.1
Salinity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Analytes																																	
Total Cyanide	-	-	<0.004	-	-	-	-	-	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Zinc	-	-	-	-	-	-	-	-	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2000**	**260**	-	-	-	-
TRH C_6 - C_9 TRH	<10	<10	-	<10	-	-	<10	<10	n/a	<100	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	370
C_6 - C_{10}	<10	<10	-	<10	-	-	<10	<10	n/a	<100	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	420
TRH C_6 - C_{10} less BTEX (F1)	<10	<10	-	<10	-	-	<10	<10	n/a	-	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	66
Benzene	<1	<1	-	<1	-	-	<1	<1	n/a	11	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	63
Toluene	<1	<1	-	<1	-	-	<1	<1	n/a	2	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	13
Ethylbenzene	<1	<1	-	<1	-	-	<1	<1	n/a	2	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	**680**
m+p-xylene	<2	<2	-	<2	-	-	<2	<2	n/a	6	-	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	<2	<2	130
o-xylene	<1	<1	-	<1	-	-	<1	<1	n/a	9	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	79
Naphthalene	<1	<1	-	<1	-	-	<1	<1	n/a	-	-	47	<1	<1	<1	6	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	2	-
TRH C_{10} - C_{14}	280	<50	-	<50	-	-	<50	<50	n/a	700	-	<50	<50	<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	640
TRH C_{15} - C_{28}	120	<100	-	<100	-	-	<100	<100	n/a	3200	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	270
TRH C_{29} - C_{36}	200	<100	-	<100	-	-	<100	<100	n/a	<100	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100
TRH >C_{10} - C_{16}	300	<50	-	69	-	-	<50	<50	n/a	810	-	<50	<50	<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	760
TRH >C_{10} - C_{16} less Naphthalene	300	<50	-	69	-	-	<50	<50	n/a	-	-	<50	<50	<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	290
TRH >C_{16} - C_{34} TRH	140	<100	-	<100	-	-	<100	<100	n/a	3100	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	170
>C_{34} - C_{40} Total	420	<100	-	<100	-	-	<100	<100	n/a	<100	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100
TRH C_6 - C_{36}	**600**	<260	-	69	-	-	<260	<260	n/a	**3900**	-	<260	<260	<260	<260	<260	-	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	-	-	<260	<260	<260	**1330**
Naphthalene	-	-	-	<1	<1	<1	-	-	n/a	46	<1	<1	-	-	-	8	**160**	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	4	<1
Acenaphthylene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Acenaphthene	-	-	-	8	<1	<1	-	-	n/a	5	<1	2	-	-	-	1	3	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	49
Fluorene	-	-	-	2	<1	<1	-	-	n/a	<1	<1	1	-	-	-	<1	1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	10
Phenanthrene	-	-	-	<1	<1	2	-	-	n/a	<1	<1	<1	-	-	-	2	2	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	1
Anthracene	-	-	-	<1	<1	<1	-	-	n/a	1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Fluoranthene Pyrene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Benzo(a)anthracene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Chrysene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Benzo(b+k)fluoranthene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Benzo(a)pyrene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<2	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Indeno(1,2,3-c,d)pyrene	-	-	-	<2	<2	<2	-	-	n/a	<2	<2	<2	-	-	-	<3	<2	<2	<2	-	-	-	-	-	-	-	<2	-	-	<2	-	-	<2
Dibenzo(a,h)anthracene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Benzo(g,h,i)perylene	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Benzo(a)pyrene TEQ	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Total +ve PAH's	-	-	-	<1	<1	<1	-	-	n/a	<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	<1	-	-	<1	-	-	<1
Ammonia as N in water	-	-	-	<5	<5	<5	-	-	n/a	<5	<5	<5	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	-	<5	-	-	<5	-	-	<5
Total Phenol	-	-	-	10	NIL (+)VE	2.4	-	-	n/a	53	NIL (+)VE	3.1	-	-	-	14	170	NIL (+)VE	NIL (+)VE	-	-	-	-	-	-	-	NIL (+)VE	-	-	NIL (+)VE	-	-	61
2-Chlorophenol	-	-	-	-	-	-	-	-	n/a	-	-	-	-	-	-	-	-	-	-	4.1	9.4	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	-	-	-	15	-	-	-	-	n/a	51	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol	-	-	-	<5		-	-	-	n/a	<5	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-						
2-Nitrophenol	-	-	-	<1	-	-	-	-	n/a	**10**	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	<2	-	-	-	-	n/a	<2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	-	-	-	**15**	-	-	-	-	n/a	**41**	-	-	-	-	-	-	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol 2-methyl-4,6-dinitrophenol	-	-	-	<10	-	-	-	-	n/a	<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	-	-	-	<20	-	-	-	-	n/a	<20	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	<1	-	-	-	-	n/a	<1	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	<10	-	-	-	-	n/a	<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	<5	-	-	-	-	n/a	<5	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Australian and New Zealand Environment Conservation Council (ANZECC) 90% Marine Water Quality Guideline Value - for highly disturbed systems

[L] (ANZECC) Based on a low reliability trigger value

[a] (ANZECC) Trigger value of 7µg/L is below laboratory detection level. The PQL of C6-C36 (260µg/L) has been adopted as the criteria value.

[b] (ANZECC) Freshwater figure adopted for marine environment in the absence of reliable marine data

[c] (ANZECC) Indicative interim working level that may be used until further data becomes available

[d] (ANZECC) 95% Marine Water Quality Guideline Value adopted from Table 8.3.7 based on a pH of 8 - for slightly to moderately disturbed systems