Appendix B
Table 2
Groundwater Analytical Results

	Inorganics	Metals								TRH - NEPM 2013							TRH - NEPM 1999					BTEX & MAH						PAH	Alkalinity		Major Ions						Nutrients		
	pH (Lab)	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C6-C10 minus BTEX (F1)	C6 - C10 Fraction	>C10-C16 minus Naphthalene (F2)	>C10 - C16 Fraction	>C16 - C34 Fraction (F3)	>C34 - C40 Fraction (F4)	>C10 - C40 (Sum of Total) - Calc	C6 - C 9 Fraction	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 (Sum of Total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Alkalinity (Carbonate as CaCO3)	Bicarbonate Alkalinity as CaCO3	Calcium	Chloride	Magnesium	Potassium	Sodium	Sulphate	Ammonia as N	Nitrate (as N)	Nitrite (as N)
	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.1	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	20	20	50	50	100	100		20	50	100	100	100	1	1	1	1	2	3	10	10	20	0.5	1	0.5	0.5	0.5	5	0.01	0.02	0.02
ADWG 2011 Health		**0.01**	**0.002**		**2**	**0.01**	**0.001**	**0.02**														**1**	**800**	**300**			**600**									**500**			
Environmental Trigger Value (Rap GHD, 2011)		*0.013*	*0.0121*		*0.07*	*1.18*	*0.00006*	*0.55*	*0.4*																											*0.9*		
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																																						
2-4m										6000[#1]		NL[#2]										5000	NL	NL			NL	NL										
4-8m										6000[#1]		NL[#2]										5000	NL	NL			NL	NL										

SampleCode	Field_ID	Location_Code	Sampled_Date																																					
S16-De22641	GG1	GG1	21-Dec-16	4.9	<0.05	***0.15***	<0.05	*0.53*	***3.6***	*0.001*	***2.9***	*1600*	<20	<20	180	180	<100	<100	180[#1]	<20	190	200	<100	390	<1	<1	<1	<1	<2	<3	<10	<10	24	1100	20,000	1700	64	4800	**950**	*130*	<0.02	<0.02
S16-De22658	QA02	GG1	21-Dec-16	-	<0.05	***0.13***	<0.05	*0.54*	***4***	<0.001	***2.9***	*1600*	<20	<20	140	140	<100	<100	140[#1]	<20	<50	100	<100	100	<1	<1	<1	<1	<2	<3	<10	-	-	-	-	-	-	-	*120*	-	-
S16-De22657	GG10	GG10	21-Dec-16	2.9	<0.05	***0.34***	<0.05	***2.9***	***12***	<0.001	***6.2***	*2900*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	1100	26,000	1300	52	3800	**860**	*79*	<0.02	<0.02
S16-De22642	GG2	GG2	21-Dec-16	4.2	<0.05	***0.062***	<0.05	*1.3*	***11***	<0.001	***2.7***	*1200*	<20	<20	1800	1800	1200	<100	3000[#1]	<20	810	2100	<100	2910	<1	<1	<1	<1	<2	<3	<10	<10	<20	580	15,000	870	42	3000	**1000**	*500*	0.55	<0.02
S16-De22643	GG5	GG5	21-Dec-16	1.4	<0.1	***1.4***	23	***35***	***96***	***0.0064***	***20***	*20,000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	3900	100,000	560	42	4000	330	*810*	0.78	0.06
S16-De22644	GG7	GG7	21-Dec-16	7.5	0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.005	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	610	97	7000	640	21	3600	**1000**	0.15	<0.02	<0.02
S16-De22645	GG8	GG8	21-Dec-16	7.4	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	910	100	3900	350	19	2400	**720**	0.66	0.05	0.11
S16-De22656	GG9	GG9	21-Dec-16	4	<0.05	***0.031***	<0.05	*0.38*	***0.13***	<0.001	***1.1***	*770*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	580	17,000	1300	42	4800	**960**	*53*	<0.02	<0.02
S16-De22646	MW119	MW119	21-Dec-16	7.4	<0.005	<0.001	<0.005	<0.005	<0.005	<0.0005	**0.024**	*12*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	390	11	2700	89	13	1700	440	0.07	0.63	0.04
S16-De22647	MW127	MW127	21-Dec-16	7.2	<0.001	<0.0002	0.17	0.001	0.002	<0.0001	0.004	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	730	5.4	3000	150	10	2100	**520**	0.03	1	<0.02
S16-De22649	MW134D	MW134D	21-Dec-16	3.6	<0.05	***0.49***	<0.05	***4.9***	***65***	<0.001	***6.9***	*4800*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	1600	34,000	1300	85	3400	**800**	*990*	1	<0.02
S16-De22648	MW134S	MW134S	21-Dec-16	7.9	<0.001	0.0007	<0.001	0.003	<0.001	<0.0001	0.007	*1.1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	620	93	3900	410	15	2300	**630**	0.08	2.2	<0.02
S16-De22650	MW135	MW135	21-Dec-16	7.6	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.009	*1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	350	30	6400	380	12	2800	**840**	0.73	<0.02	<0.02
S16-De22651	WS_MW5	WS-MW5	21-Dec-16	7.9	<0.005	<0.001	<0.005	<0.005	<0.005	<0.0005	**0.04**	*4.1*	<20	<20	<50	<50	<100	<100	0[#1]	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	650	200	9800	730	24	4000	**990**	*2.7*	<0.02	<0.02
S16-De22652	WS_MW6	WS-MW6	21-Dec-16	7.3	0.002	<0.0002	<0.001	0.01	<0.001	<0.0001	0.005	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	430	70	3700	290	13	1700	340	<0.01	<0.02	<0.02
S16-De22653	WS_MW7	WS-MW7	21-Dec-16	8.2	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	1000	120	6600	520	18	3100	**790**	0.54	<0.02	<0.02
159638-1	QA01	WS-MW8	21-Dec-16	-	0.002	***0.067***	<0.001	<0.001	**0.066**	<0.00005	***0.66***	*650*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*34*	-	-
S16-De22654	WS_MW8	WS-MW8	21-Dec-16	4.3	<0.05	***0.039***	<0.05	*0.43*	<0.05	*0.001*	***0.86***	*720*	<20	<20	<50	<50	<100	<100	0[#1]	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	<20	580	17,000	1500	39	5200	**1000**	*38*	<0.02	<0.02
S16-De22655	WS_MW9	WS-MW9	21-Dec-16	7.9	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	760	110	7700	580	15	3700	**820**	0.49	<0.02	<0.02

Statistical Summary

Number of Results	17	19	19	19	19	19	19	19	19	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	17	17	17	17	17	17	17	17	19	17	17
Number of Detects	17	3	10	2	11	9	3	17	16	0	0	3	3	1	0	5	0	2	3	0	3	0	0	0	0	0	0	0	0	11	17	17	17	17	17	17	18	7	3
Minimum Concentration	1.4	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.00005	<0.001	<0.005	<20	<20	<50	<50	<100	<100	<0	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	<20	5.4	2700	89	10	1700	330	<0.01	<0.02	<0.02
Minimum Detect	1.4	0.001	0.0007	0.17	0.001	0.002	0.001	0.002	0.008	ND	ND	140	140	1200	ND	140	ND	190	100	ND	100	ND	ND	ND	ND	ND	ND	ND	24	5.4	2700	89	10	1700	330	0.03	0.05	0.04
Maximum Concentration	8.2	<0.1	1.4	23	35	96	0.0064	20	20000	<20	<20	1800	1800	1200	<100	3000	<20	810	2100	<100	2910	<1	<1	<1	<1	<2	<3	<10	<10	1000	3900	100000	1700	85	5200	1000	990	2.2	0.11
Maximum Detect	8.2	0.002	1.4	23	35	96	0.0064	20	20000	ND	ND	1800	1800	1200	ND	3000	ND	810	2100	ND	2910	ND	ND	ND	ND	ND	ND	ND	1000	3900	100000	1700	85	5200	1000	990	2.2	0.11
Average Concentration	6	0.013	0.14	1.2	2.4	10	0.00062	2.3	1803	10	10	434	434	280	50	664	10	215	500	50	700	0.5	0.5	0.5	0.5	1	1.5	5	5	384	604	16688	745	31	3318	764	145	0.37	0.021
Median Concentration	7.3	0.0025	0.0007	0.0025	0.003	0.0025	0.00025	0.04	12	10	10	140	140	50	50	140	10	25	100	50	100	0.5	0.5	0.5	0.5	1	1.5	5	5	390	120	7700	580	21	3400	820	2.7	0.01	0.01
Standard Deviation	2.2	0.015	0.33	5.3	8	26	0.0014	4.8	4581	0	0	767	767	514	0	1308	0	340	897	0	1244	0	0	0	0	0	0	0	0	359	971	23251	496	21	1071	232	291	0.6	0.027
Number of Guideline Exceedances	0	8	9	0	8	9	18	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	10	0	0
Number of Guideline Exceedances(Detects Only)	0	0	9	0	8	8	3	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	10	0	0

Env Stds Comments
#1:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#2:To obtain F2 subtract napthalene from the >C10 - C16 fraction.

Data Comments
#1 ESDAT Combined with Non-Detect Multiplier of 0