

Table 2
Summary of Groundwater Field Paramaters - May 2019

Well ID	Sampling Event	Date Measured	SWL (mbTOC)	BOC (mbTOC)	Dissolved Oxygen (ppm)	Electrical Conductivity (us/cm)	pH	Ox-Red Potential (mV)	Temperature (°C)
CSM_BH02	Event 8 - May 2019	14/05/2019	16.07	28.14	0.24	675	6.91	-61.1	21
CSM_BH04	Event 8 - May 2019	13/05/2019	18.502	35.2	1.82	433.2	5.92	49.3	21.3
CSM_BH05	Event 8 - May 2019	13/05/2019	19.359	33.43	0.31	980	6.57	-3.9	19.9
CSM_BH06	Event 8 - May 2019	14/05/2019	20.395	35.93	0.53	986	6.33	11.4	21.1
CSM_BH08	Event 8 - May 2019	15/05/2019	13.295	35.55	0.74	540	6.38	-18.7	20.7
CSM_BH09S	Event 8 - May 2019	13/05/2019	4.25	6.59	0.71	670	5.89	34.6	19.9
CSM_BH10S	Event 8 - May 2019	13/05/2019	4.349	9.87	0.12	269.7	4.99	198.9	21.5
SRT_BH047	Event 8 - May 2019	14/05/2019	5.198	6.96	0.99	441.5	7.68	91.8	20.6
SRT_BH052	Event 8 - May 2019	14/05/2019	6.246	7.9	2.63	363.4	6.98	84.9	20.7
SRT_BH059	Event 8 - May 2019	15/05/2019	4.204	6	3.72	423.5	6.8	149	21.4
SRT_BH063	Event 8 - May 2019	15/05/2019	10.84	14.5	3.44	793	6.59	74.9	21.2
SRT_CBH015	Event 8 - May 2019	15/05/2019	3.85	5.91	0.3	222.3	5.15	189.3	21.6
SRT_CBH017	Event 8 - May 2019	15/05/2019	2.905	4.96	2.76	153.2	5.75	152.3	21.9



Table 1
Summary of Groundwater Analytical Results - May 2019

	Iron speciation	Inorganics				Acidity & Alkalinity		Major Ions						Nutrients		Metals								BTEXN									
	Ferrous Iron	pH (Lab)	Total Dissolved Solids	Total Suspended Solids	Cyanide (Total)	Alkalinity (Carbonate as CaCO3)	Alkalinity (Bicarbonate as CaCO3)	Calcium	Magnesium	Potassium	Sodium	Chloride	Sulfate	Ammonia as N	Nitrate (as N)	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene (BTEXN)	BTEX (Sum of Total) - Lab Calc	
EQL	0.05	0.1	10	1	0.005	10	20	0.5	0.5	0.5	0.5	1	5	0.01	0.02	0.001	0.0002	0.001	0.001	0.001	0.005	0.0001	0.001	0.005	1	1	1	1	2	3	10	1	
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																																	
2-4m																									5000	NL	NL			NL	NL		
4-8m																									5000	NL	NL			NL	NL		
>8m																									5000	NL	NL			NL	NL		
NEPM 2013 Table 1C GILs, Marine Waters					0.004												0.0007	0.0044	0.0013	0.0044		0.0001	0.007	0.015	500						50		
NHMRC Recreational Guidelines 2008 - Health					0.8								5000			0.1	0.02		20	0.1	5	0.01	0.2	10	8000	3000			6000				
Sydney Water Trade Waste Acceptance Standards 2018-19 (non-domestic)		7-10			1											1	1	3	5	2	10	0.03	3	5	100	500	1000			1000			

Field_ID	Location_Code	Sampled_Date_Time	Sample_Type																																	
CSM_BH02	CSM_BH02	14/05/2019	Normal	1.4	8.5	410	3300	0.005	11	240	43	26	3.2	64	68	38	0.12	<0.02	<0.001	<0.0002	<0.001	<0.001	<0.001	0.55	<0.0001	0.012	0.01	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH04	CSM_BH04	13/05/2019	Normal	0.12	7.3	260	3700	<0.005	<10	85	5.2	9.5	2.4	66	56	56	<0.01	<0.02	<0.001	<0.0002	<0.001	0.004	<0.001	0.3	<0.0001	0.029	0.29	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH05	CSM_BH05	13/05/2019	Normal	0.99	8.2	560	620	<0.005	<10	220	33	29	6.2	130	190	54	<0.01	<0.02	0.001	<0.0002	<0.001	<0.001	<0.001	0.37	<0.0001	0.008	0.027	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH06	CSM_BH06	14/05/2019	Normal	2.6	8	580	250	<0.005	<10	190	41	35	5.1	100	220	23	0.02	<0.02	0.002	<0.0002	<0.001	<0.001	<0.001	0.25	<0.0001	0.011	0.054	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH08	CSM_BH08	15/05/2019	Normal	5	7.9	310	180	<0.005	<10	120	11	16	3.3	71	92	42	<0.01	<0.02	<0.001	<0.0002	<0.001	<0.001	<0.001	0.3	<0.0001	0.003	0.015	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH09S	CSM_BH09S	13/05/2019	Normal	7.1	7.4	460	66	<0.005	<10	76	6.2	7.3	4.5	100	57	190	0.1	<0.02	<0.001	<0.0002	<0.001	<0.001	<0.001	0.54	<0.0001	0.004	0.019	<1	<1	<1	<1	<2	<3	<10	-	
CSM_BH10S	CSM_BH10S	13/05/2019	Normal	0.13	6.6	270	210	<0.005	<10	<20	4	5.6	3.3	45	130	350	<0.01	1.7	<0.001	<0.0002	<0.001	0.003	<0.001	0.43	<0.0001	0.002	0.011	<1	<1	<1	<1	<2	<3	<10	-	
QC01	CSM_BH09S	13/05/2019	Interlab_D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.0001	<0.001	<0.001	<0.001	-	<0.0001	0.005	0.018	<1	<2	<2	<2	<2	-	<1		
QC02	CSM_BH06	14/05/2019	Field_D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	<0.0002	<0.001	<0.001	<0.001	-	<0.0001	0.011	0.053	<1	<1	<1	<1	<2	<3	<10	-	
SRT_BH047	SRT_BH047	14/05/2019	Normal	<0.05	8.1	360	40	<0.005	<10	120	51	9.7	1.2	34	43	11	<0.01	23	<0.001	<0.0002	<0.001	0.002	<0.001	<0.005	<0.0001	<0.001	<0.005	<1	<1	<1	<1	<2	<3	<10	-	
SRT_BH052	SRT_BH052	14/05/2019	Normal	<0.05	7.7	230	110	<0.005	<10	90	23	5.2	1.5	47	56	26	<0.01	8.3	<0.001	<0.0002	<0.001	0.002	<0.001	<0.005	<0.0001	<0.001	<0.005	<1	<1	<1	<1	<2	<3	<10	-	
SRT_BH059	SRT_BH059	15/05/2019	Normal	<0.05	8.1	270	21	<0.005	<10	210	65	6.9	7.1	11	22	27	<0.01	3.2	<0.001	<0.0002	<0.001	0.006	<0.001	<0.005	<0.0001	<0.001	<0.005	<1	<1	<1	<1	<2	<3	<10	-	
SRT_BH063	SRT_BH063	15/05/2019	Normal	<0.05	8.2	460	20	<0.005	<10	340	50	33	5.7	62	89	49	<0.01	<0.02	<0.001	<0.0002	<0.001	0.005	<0.001	<0.005	<0.0001	0.005	0.014	<1	<1	<1	<1	<2	<3	<10	-	
SRT_CBH015	SRT_CBH015	15/05/2019	Normal	<0.05	6.5	140	1.7	<0.005	<10	34	2.7	5.3	3.5	29	13	48	0.03	3	<0.001	<0.0002	<0.001	0.007	<0.001	5.1	<0.0001	0.009	0.024	<1	<1	<1	<1	<2	<3	<10	-	
SRT_CBH017	SRT_CBH017	15/05/2019	Normal	<0.05	6.7	88	16	<0.005	<10	30	10	6.8	3	11	19	17	<0.01	4.4	<0.001	<0.0002	<0.001	0.003	<0.001	0.7	<0.0001	0.004	0.008	<1	<1	<1	<1	<2	<3	<10	-	



Table 1
Summary of Groundwater Analytical Results - May 2019

	TRH - NEPM 2013							NEPM 2013 - SG Cle			TRH - NEPM 1999					RH - NEPM 1999 - SG Clean				PAHs																				
	F1 (C6-C10 minus BTEX)	C6-C10 Fraction	F2 (>C10-C16 minus Naphthalene)	>C10-C16 Fraction	F3 (>C16-C34 Fraction)	F4 (>C34-C40 Fraction)	>C10-C40 (Sum of Total)	>C10-C16 SG Cleanup	>C16-C34 SG Cleanup	>C34-C40 SG Cleanup	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 (Sum of Total)	C10-C14 SG Cleanup	C15-C28 SG Cleanup	C29-C36 SG Cleanup	C10-C36 (sum) SG Cleanup	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo(a) pyrene	Benzo[b+j]fluoranthene	Benzo[k]fluoranthene	Benzo[g,h,i]perylene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Naphthalene	Fluorene	Indeno[1,2,3-c,d]pyrene	Naphthalene-PAH	Phenanthrene	Pyrene	PAHs (Sum of total) - Lab calc	Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc		
	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	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		
EQL	20	20	50	50	100	100	100	50	100	100	20	50	100	100	100	50	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5		
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																																								
2-4m	6000		NL																												NL			NL						
4-8m	6000		NL																												NL			NL						
>8m	7000		NL																												NL			NL						
NEPM 2013 Table 1C GILs, Marine Waters																															50			50						
NHMRC Recreational Guidelines 2008 - Health																								0.1																
Sydney Water Trade Waste Acceptance Standards 2018-19 (non-domestic)																																					5000			

Field_ID	Location_Code	Sampled_Date_Time	Sample_Type	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH02	CSM_BH02	14/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH04	CSM_BH04	13/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH05	CSM_BH05	13/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH06	CSM_BH06	14/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH08	CSM_BH08	15/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH09S	CSM_BH09S	13/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
CSM_BH10S	CSM_BH10S	13/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
QC01	CSM_BH09S	13/05/2019	Interlab_D	<20	<20	<100	<100	<100	<100	<100	-	-	-	<20	<50	<100	<50	<50	-	-	-	-	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<0.5	<0.5
QC02	CSM_BH06	14/05/2019	Field_D	<20	<20	<50	<50	<100	<100	<100	-	-	-	<20	<50	<100	<100	<100	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_BH047	SRT_BH047	14/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_BH052	SRT_BH052	14/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_BH059	SRT_BH059	15/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_BH063	SRT_BH063	15/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_CBH015	SRT_CBH015	15/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-
SRT_CBH017	SRT_CBH017	15/05/2019	Normal	<20	<20	<50	<50	<100	<100	<100	<50	<100	<100	<20	<50	<100	<100	<100	<50	<100	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-

[illegible]



Table 1
Summary of Groundwater Analytical Results - May 2019

				OP Pesticides																												PCBs								Herbicides							
				Tokuthion	Azinphos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Parathion	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Total)	Dinoseb	
				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	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	µg/L	µg/L	µg/L			
EQL																																															
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																																															
2-4m																																															
4-8m																																															
>8m																																															
NEPM 2013 Table 1C GILs, Marine Waters					0.009																																										
NHMRC Recreational Guidelines 2008 - Health		300	100		100					40	50	70	40		40	10	70	100	70	700		7	50	20		10	200		900	200		9		1000													
Sydney Water Trade Waste Acceptance Standards 2018-19 (non-domestic)																																															
Field_ID	Location_Code	Sampled_Date_Time	Sample_Type																																												
CSM_BH02	CSM_BH02	14/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
CSM_BH04	CSM_BH04	13/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CSM_BH05	CSM_BH05	13/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CSM_BH06	CSM_BH06	14/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CSM_BH08	CSM_BH08	15/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CSM_BH09S	CSM_BH09S	13/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CSM_BH10S	CSM_BH10S	13/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
QC01	CSM_BH09S	13/05/2019	Interlab_D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
QC02	CSM_BH06	14/05/2019	Field_D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SRT_BH047	SRT_BH047	14/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SRT_BH052	SRT_BH052	14/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SRT_BH059	SRT_BH059	15/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SRT_BH063	SRT_BH063	15/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SRT_CBH015	SRT_CBH015	15/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SRT_CBH017	SRT_CBH017	15/05/2019	Normal	<2	<2	<2	<2	<20	<2	<20	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2