

Environmental Assessment Works

South Australian Environment Protection Authority

37 - 41 Cliff Street, Glenelg East

RESULTS SUMMARY TABLES – GROUNDWATER

Groundwater Investigation Results, 37-41 Cliff Street, Glenelg East	Chlorinated Hydrocarbons																																			
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropene	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloroethene (sum cis & trans)	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Trihalomethanes (Total)	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethane	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride				
Adopted Guidelines	µg/L																																			
NEPM 2013 GILs, Marine Waters(A)	1	1	1	1900	1	1	1	1	1	1	0.1	1	1	1	1	1	1	1	1	5	0.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.05
NEPM 2013 HSL for Vapour Intrusion (Residential) 2-4m CLAY*																																				
NEPM 2013 HSL for Vapour Intrusion (Commercial) 2-4m CLAY*																																				
SA Water Quality, 2003, Ag, Irrigation																																				
SA Water Quality, 2003, Aquaculture																																				
ANZECC/ARMCANZ (2000) Recreation																																				
SA Water Quality, 2003, Aquatic, Marine																																				

Well ID	Field ID	Sampling Date	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	-	<5	-	<1	92	<1	<1	<1	-	10	200	4	<1	<1																	
DC1	DC1	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1																
GW1	GW1	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1												
GW2	GW2	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1										
GW3	GW3	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1									
GW4	GW4	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1								
GW5	GW5	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1							
GW6	GW6	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1						
GW7	GW7	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
GW8	GW8	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1				
GW9	GW9	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
GW10	GW10	9/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
GW11	GW11	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
GW12	GW12	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
	QW2	10/07/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
GW13	GW13	10/07/2014	<1	<1	<1	<1	<1	3	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
GW14	GW14	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
GW15	GW15	10/07/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
GW16	GW16	13/10/2014	<1	<1	<1	<1	0.01	<1	-	<1	-	<0.01	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	QC3	13/10/2014	<1	<1	<1	<1	0.01	<1	-	<1	-	<0.01	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
	QC4	13/10/2014	-	<0.1	-	-	<0.1	<0.1	-	-	<0.1	<0.1	65.3	<0.1	-	-	<0.1	<0.1	<0.05	<0.1	<0.5	1.13	1.13	-	65.3	<0.1	-	<1	<0.04	12.1	8.35	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			
GW17	GW17	13/10/2014	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
GW18	GW18	13/10/2014	<1	<1	<1	<1	<0.01	<1	-	<1	-	<0.01	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

NOTES:
 * - Results compared to health screening level criteria for a CLAY soil type (based on field observations during well installation)
 ** - converted from S04 to S

Groundwater Investigation Results, 37-41 Cliff Street, Glenelg East	TPH (NEPM 1999 FRACTIONS)					TRH (NEPM 2013 FRACTIONS)							BTEX					PAH/Phenols			
	C6 - C9	C10 - C14	C15 - C28	C29-C36	C10 - C36 (Sum of total)	C6-C10	TRH >C10-C16	C6-C10 less BTEX (F1)	TRH >C10-C16 less Naphthalene (F2)	TRH >C16-C34	TRH >C34-C40	C10 - C40 (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	Naphthalene	
	µg/L	µg/L	µg/L	µg/L	µg/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	mg/L	µg/L	
Adopted Guidelines	20	50	100	50	50	0.02	0.05	0.02	0.05	0.1	0.1		1	1	1	2	1	2		5	
NEPM 2013 GILs, Marine Waters(A)													500								50
NEPM 2013 HSL for Vapour Intrusion (Residential) 2-4m CLAY*													5000								
NEPM 2013 HSL for Vapour Intrusion (Commercial) 2-4m CLAY*													30,000								
SA Water Quality, 2003, Ag, Irrigation																					
SA Water Quality, 2003, Aquaculture													40								
ANZECC/ARMCANZ (2000) Recreation													10								
SA Water Quality, 2003, Aquatic, Marine													300								

Well ID	Field ID	Sampling Date	C6 - C9	C10 - C14	C15 - C28	C29-C36	C10 - C36 (Sum of total)	C6-C10	TRH >C10-C16	C6-C10 less BTEX (F1)	TRH >C10-C16 less Naphthalene (F2)	TRH >C16-C34	TRH >C34-C40	C10 - C40 (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	Naphthalene
DC1	DC1	9/07/2014	350	<50	<100	<100	<100	0.35	<0.05	0.35	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW1	GW1	9/07/2014	90	<50	<100	<100	<100	0.09	<0.05	0.09	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW2	GW2	9/07/2014	<20	<50	300	<100	375	<0.02	0.09	<0.02	0.09	0.3	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW3	GW3	10/07/2014	<20	<50	<100	<100	<100	<0.02	<0.05	<0.02	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW4	GW4	9/07/2014	650	<50	<100	<100	<100	0.65	<0.05	0.65	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW5	GW5	9/07/2014	50	<50	<100	<100	<100	0.05	<0.05	0.05	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW6	GW6	9/07/2014	3500	<50	<100	<100	<100	3.5	<0.05	3.5	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW7	GW7	9/07/2014	<20	<50	<100	<100	<100	<0.02	<0.05	<0.02	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW8	GW8	9/07/2014	1000	<50	<100	<100	<100	1	<0.05	1	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW9	GW9	10/07/2014	620	<50	<100	<100	<100	0.62	<0.05	0.62	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW10	GW10	9/07/2014	<20	<50	<100	<100	<100	<0.02	<0.05	<0.02	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW11	GW11	10/07/2014	1100	<50	<100	<100	<100	1.1	<0.05	1.1	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW12	GW12	10/07/2014	1400	<50	<100	<100	<100	1.4	<0.05	1.4	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
	QW1	9/07/2014	1200	<50	<100	<100	<100	1.2	<0.05	1.2	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
	QW2	10/07/2014	1050	<50	<100	<50	<50	1.01	<0.1	1.01	<0.1	<0.1	<0.1	<100	<1	<2	<2	<2	<2	<2	<0.001	<5
GW13	GW13	10/07/2014	1700	<50	<100	<100	<100	1.7	<0.05	1.7	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW14	GW14	10/07/2014	<20	<50	<100	<100	<100	<0.02	<0.05	<0.02	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW15	GW15	10/07/2014	390	<50	<100	<100	<100	0.39	<0.05	0.38	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW16	GW16	13/10/2014	70	<50	<100	<100	<100	0.07	<0.05	0.07	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
	QC3	13/10/2014	70	<50	<100	<100	<100	0.07	<0.05	0.07	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
	QC4	13/10/2014	50	<50	<100	<50	<50	0.05	<0.1	0.05	<0.1	<0.1	<0.1	<100	<1	<2	<2	<2	<2	<2	<0.001	<5
GW17	GW17	13/10/2014	220	<50	<100	<100	<100	0.22	<0.05	0.22	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20
GW18	GW18	13/10/2014	30	<50	<100	<100	<100	0.03	<0.05	0.03	<0.05	<0.1	<0.1	-	<1	<1	<1	<2	<1	<3	-	<20

NOTES:
 * - Results compared to health screening level criteria for a CLAY soil type (based on field observations during well installation)

** - converted from S04 to S

	VOCs				Halogenated Benzenes								Halogenated Hydrocarbons							Inorganics											Organic			Metals													
	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	Trichlorobenzenes (Sum)	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Benzylchloride	Bromobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Alkalinity (Hydroxide) as CaCO3	Alkalinity (total) as CaCO3	Ammonia as N	Anions Total	Alkalinity (Bicarbonate as CaCO3)	Alkalinity (Carbonate as CaCO3)	Cations Total	Chloride	Ferrous Iron	Ionic Balance	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidiseof)	Sodium	Sulphate as S	Sulphite as S	Methane	Calcium	Ferric Iron	Iron (Filtered)	Magnesium	Manganese (Filtered)	Potassium					
Adopted Guidelines	µg/L	µg/L	µg/L	µg/L	µg/L	0.1	1	1	1	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	meq/L	mg/L	mg/L	meq/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					
NEPM 2013 GILs, Marine Waters(A)						20																																									
NEPM 2013 HSL for Vapour Intrusion (Residential) 2-4m CLAY*																																															
NEPM 2013 HSL for Vapour Intrusion (Commercial) 2-4m CLAY*																																															
SA Water Quality, 2003, Ag, Irrigation																																															
SA Water Quality, 2003, Aquaculture																																															
ANZECC/ARMCANZ (2000) Recreation																					10						400		10	1			300								0.3			0.1			
SA Water Quality, 2003, Aquatic, Marine																					200											0.2															

Well ID	Field ID	Sampling Date	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	760	-	470	<10	-	1000	1.1	-	3.3	<0.02	-	370	49	<1	0.12	240	0.1	1.2	120	0.28	6.7
DC1	DC1	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1000	<0.05	-	6.8	<0.02	-	400	63	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.2
GW1	GW1	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1000	<0.05	-	6.8	<0.02	-	400	63	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.2
GW2	GW2	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	510	<10	-	870	0.39	-	3.3	0.07	-	380	63	<1	<0.05	190	0.31	0.7	110	1.8	5.7
GW3	GW3	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1200	<0.05	-	6.4	<0.02	-	510	61	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.3
GW4	GW4	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	470	<10	-	1100	<0.05	-	4.9	<0.02	-	390	64	<1	<0.05	230	<0.05	<0.05	170	0.15	6.9
GW5	GW5	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	970	<0.05	-	6.4	<0.02	-	400	66	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.3
GW6	GW6	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	20	-	450	<10	-	1000	<0.05	-	6	<0.02	-	390	62	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.5
GW7	GW7	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	420	<10	-	960	<0.05	-	6.2	<0.02	-	390	62	<1	<0.05	200	<0.05	<0.05	110	<0.005	7
GW8	GW8	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	480	<10	-	1000	<0.05	-	4.4	<0.02	-	400	61	<1	<0.05	210	<0.05	<0.05	170	<0.005	8.1
GW9	GW9	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1100	<0.05	-	4.4	<0.02	-	440	62	<1	<0.05	220	<0.05	<0.05	120	0.038	7.5
GW10	GW10	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	500	<10	-	1100	<0.05	-	3.4	<0.02	-	470	75	<1	<0.05	220	<0.05	<0.05	120	0.57	7
GW11	GW11	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1000	<0.05	-	5.9	<0.02	-	390	66	<1	<0.05	220	<0.05	<0.05	120	<0.005	7.8
GW12	GW12	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	460	<10	-	1100	<0.05	-	5.7	<0.02	-	450	63	<1	<0.05	220	<0.05	<0.05	120	<0.005	7.6
	QW1	9/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	470	<10	-	1000	<0.05	-	5.8	<0.02	-	390	64	<1	<0.05	220	<0.05	<0.05	120	<0.005	8
	QW2	10/07/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1000	483	10	43.2	483	<1	41	1050	<0.05	2.52	4.63	<0.01	4.63	395	63	<2	<0.01	217	<0.05	-	156	0.001	8
GW13	GW13	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	500	<10	-	1000	<0.05	-	3.1	<0.02	-	440	58	<1	<0.05	200	<0.05	<0.05	110	0.068	7
GW14	GW14	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<5	-	<5	<1	<1	-	-	<10	-	450	<10	-	1000	<0.05	-	6.2	<0.02	-	410	65	<1	<0.05	220	<0.05	<0.05	120	<0.005	7.8
GW15	GW15	10/07/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	<10	-	450	<10	-	1100	<0.05	-	5.6	<0.02	-	450	63	<1	<0.05	210	<0.05	<0.05	120	<0.005	7.7
GW16	GW16	13/10/2014	-	-	-	-	<1	<1	<0.01	-	-	-	<0.01	<1	<1	<1	<1	<1	<1	-	-	<20	-	520	<10	-	1000	<0.05	-	5.8	0.03	-	400	61	<1	<0.05	190	<0.05	<0.05	150	0.026	8.1
	QC3	13/10/2014	-	-	-	-	<1	<1	<0.01	-	-	-	<0.01	<1	<1	<1	<1	<1	<1	-	-	10	-	520	<10	-	1000	<0.05	-	5.9	0.03	-	420	62	<1	<0.05	200	<0.05	<0.05	150	0.029	9.1
	QC4	13/10/2014	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<1000	505	50	43.9	505	<1	40.5	1070	<0.05	4.04	5.41	0.03	5.44	419	58	<2	<0.01	182	<0.05	<0.05	158	0.027
GW17	GW17	13/10/2014	-	-	-	-	<1	<1	<1	-	-	-	<1	<1	<1	-	<1	<1	<1	-	-	50	-	480	<10	-	1100	<0.05	-	4	<0.02	-	400	65	<1	<0.05	210	<0.05	<0.05	150	0.019	8.8
GW18	GW18	13/10/2014	-	-	-	-	<1	<1	<0.01	-	-	-	<0.01	<1	<1	-	<1	<1	<1	-	-	<10	-	470	<10	-	1100	<0.05	-	4.9	<0.02	-	400	62	<1	<0.05	210	<0.05	<0.05	150	<0.005	8.7

NOTES:
 * - Results compared to health screening level criteria for a CLAY soil type (based on field observations during well installation)

** - converted from S04 to S

Field Duplicates (WATER)
Filter: SDG in('14/10/2014','424953')

Chem Group	ChemName	Units	EQL	14/10/2014	14/10/2014	424953	424953	424953	Interlab_D	14/10/2014	Interlab_D				
				GW16	QC3	RPD	GW12	QW1	RPD	GW12	QW2	RPD	GW16	QC4	RPD
Sampled Date				13/10/2014	13/10/2014	10/07/2014	10/07/2014	10/07/2014	10/07/2014	13/10/2014	13/10/2014				
TRH >C10-C16		mg/l	0.05 (Primary); 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.1	0
TRH >C10-C16 less Naphthalene (F2)		mg/l	0.05 (Primary); 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.1	0	<0.05	<0.1	0
TRH >C16-C34		mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
TRH >C34-C40		mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
BTEX	Benzene	µg/l	1	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<1.0	0
	Ethylbenzene	µg/l	1 (Primary); 2 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<2.0	0	<1.0	<2.0	0
	Toluene	µg/l	1 (Primary); 2 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<2.0	0	<1.0	<2.0	0
	Xylene (m & p)	µg/l	2	<2.0	<2.0	0	<2.0	<2.0	0	<2.0	<2.0	0	<2.0	<2.0	0
	Xylene (o)	µg/l	1 (Primary); 2 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<2.0	0	<1.0	<2.0	0
	Xylene Total	µg/l	3 (Primary); 2 (Interlab)	<3.0	<3.0	0	<3.0	<3.0	0	<3.0	<2.0	0	<3.0	<2.0	0
	C6-C10 less BTEX (F1)	mg/l	0.02	0.07	0.07	0	1.4	1.2	15	1.4	1.01	32	0.07	0.05	33
Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,1,1-trichloroethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,1,2,2-tetrachloroethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,1,2-trichloroethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,1-dichloroethane	µg/l	0.01 (Primary); 0.1 (Interlab)	0.01	0.01	0	<1.0	<1.0	0	<1.0	<5.0	0	0.01	<0.1	0
	1,1-dichloroethene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,2,3-trichloropropane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,2-dichloropropane	µg/l	0.01 (Primary); 0.1 (Interlab)	<0.01	<0.01	0	<1.0	<1.0	0	<1.0	<5.0	0	<0.01	<0.1	0
	1,2-dichloropropane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,3-dichloropropane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Bromochloromethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Bromoform	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Carbon tetrachloride	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Chlorodibromomethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Chloroform	µg/l	5 (Primary); 0.1 (Interlab)	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	<5.0	0	<5.0	1.13	0
	Chloromethane	µg/l	1 (Primary); 50 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<50.0	0	<1.0	<50.0	0
	cis-1,2-dichloroethene	µg/l	1 (Primary); 5 (Interlab)	49.0	50.0	2	2.0	2.0	0	2.0	<5.0	0	49.0	65.3	29
	cis-1,3-dichloropropene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Dibromomethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Trichloroethene	µg/l	1 (Primary); 5 (Interlab)	16.0	16.0	0	5.0	5.0	0	5.0	6.0	18	16.0	12.1	28
	Tetrachloroethene	µg/l	1 (Primary); 5 (Interlab)	12.0	12.0	0	1100.0	940.0	16	1100.0	1370.0	22	12.0	8.35	36
	trans-1,2-dichloroethene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	trans-1,3-dichloropropene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Vinyl chloride	µg/l	0.05 (Primary); 0.3 (Interlab)	<0.05	<0.05	0	<1.0	<1.0	0	<1.0	<0.3	0	<0.05	<0.3	0
Halogenated Benzenes	1,2-dichlorobenzene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,3-dichlorobenzene	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	1,4-dichlorobenzene	µg/l	1 (Primary); 5 (Interlab)	<0.01	<0.01	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Chlorobenzene	µg/l	1 (Primary); 5 (Interlab)	<0.01	<0.01	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
Halogenated Hydrocarbons	1,2-dibromoethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Bromomethane	µg/l	1 (Primary); 50 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<50.0	0	<1.0	<5.0	0
	Iodomethane	µg/l	1 (Primary); 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<5.0	0	<1.0	<5.0	0
	Trichlorofluoromethane	µg/l	1 (Primary); 50 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<50.0	0	<1.0	<5.0	0
Inorganics	Ammonia as N	µg/l	10	20.0	10.0	67	<10.0	<10.0	0	<10.0	10.0	0	20.0	50.0	86
	Alkalinity (Bicarbonate as CaCO3)	mg/l	20 (Primary); 1 (Interlab)	520.0	520.0	0	460.0	470.0	2	460.0	483.0	5	520.0	505.0	3
	Alkalinity (Carbonate as CaCO3)	mg/l	10 (Primary); 1 (Interlab)	<10.0	<10.0	0	<10.0	<10.0	0	<10.0	<1.0	0	<10.0	<1.0	0
	Chloride	mg/l	1	1000.0	1000.0	0	1100.0	1000.0	10	1100.0	1050.0	5	1000.0	1070.0	7
	Ferrous Iron	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Nitrate (as N)	mg/l	0.02 (Primary); 0.01 (Interlab)	5.8	5.9	2	5.7	5.8	2	5.7	4.63	21	5.8	5.41	7
	Nitrite (as N)	mg/l	0.02 (Primary); 0.01 (Interlab)	0.03	0.03	0	<0.02	<0.02	0	<0.02	<0.01	0	0.03	0.03	0
	Sodium	mg/l	0.5	400.0	420.0	5	450.0	390.0	14	450.0	395	11	400.0	419	5
	Sulphate as S	mg/l	5	61.0	62.0	2	63.0	64.0	2	63.0	62.6	1	61.0	57.9	5
	Sulphite as S	mg/l	0.5	<1.0	<1.0	0	<1.0	<1.0	0	<1.0	<2.0	0	<1.0	<2.0	0
Metals	Calcium	mg/l	0.5	190.0	200.0	5	220.0	220.0	0	220.0	217	2	190.0	182	8
	Ferric Iron	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Iron (Filtered)	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Magnesium	mg/l	0.5	150.0	150.0	0	120.0	120.0	0	120.0	156	28	150.0	158	8
	Manganese (Filtered)	mg/l	0.005 (Primary); 0.001 (Interlab)	0.026	0.029	11	<0.005	<0.005	0	<0.005	0.001	0	0.026	0.027	4
	Potassium	mg/l	0.5	8.7	9.1	4	7.6	8.0	5	7.6	8	5	8.7	7	4
Organic	Methane	mg/l	0.05 (Primary); 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.01	0
PAH/Phenols	Naphthalene	µg/l	20 (Primary); 5 (Interlab)	<20.0	<20.0	0	<20.0	<20.0	0	<20.0	<5.0	0	<20.0	<5.0	0
TPH	C8 - C9	µg/l	20	70.0	70.0	0	1400.0	1200.0	15	1400.0	1050.0	29	70.0	50.0	33
	C10 - C14	µg/l	50	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0
	C15 - C28	µg/l	100	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0
	C29-C36	µg/l	100 (Primary); 50 (Interlab)	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<50.0	0	<100.0	<50.0	0
	>C10 - C36 (Sum of total)	µg/l	100 (Primary); 50 (Interlab)	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<50.0	0	<100.0	<50.0	0
	C6-C10	mg/l	0.02	0.07	0.07	0	1.4	1.2	15	1.4	1.01	32	0.07	0.05	33

*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

Field Blanks (WATER)
Filter: SDG in('14/10/2014','424953')

SDG	14/10/2014	424953	424953	14/10/2014	424953	14/10/2014	424953	424953
Field_ID	FB2	FB1	FB2	RB2	RB1	TB2	TB1	TB2
Sampled_Date-Time	13/10/2014	9/07/2014	9/07/2014	13/10/2014	9/07/2014	13/10/2014	9/07/2014	9/07/2014
Sample_Type	Field_B	Field_B	Field_B	Rinsate	Rinsate	Trip_B	Trip_B	Trip_B

Chem_Group	ChemName	Units	EQL								
Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1,1-trichloroethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1,2,2-tetrachloroethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1,2-trichloroethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1-dichloroethane	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1
	1,1-dichloroethene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2,3-trichloropropane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichloroethane	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichloropropane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,3-dichloropropane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromodichloromethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromoform	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Carbon tetrachloride	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorodibromomethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chloroform	µg/l	5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloromethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,2-dichloroethene	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Dibromomethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Dichloromethane	µg/l	0.02	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	µg/l	0.02	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1	
Vinyl chloride	µg/l	0.05	<1	<1	<1	<1	<1	<1	<1	<1	
Halogenated Benzenes	1,2-dichlorobenzene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,3-dichlorobenzene	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	1,4-dichlorobenzene	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorobenzene	µg/l	0.01	<1	<1	<1	<1	<1	<1	<1	<1
Halogenated Hydrocarbons	1,2-dibromoethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromomethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Iodomethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1
	Trichlorofluoromethane	µg/l	1	<1	<1	<1	<1	<1	<1	<1	<1

Environmental Assessment Works

South Australian Environment Protection Authority

37 - 41 Cliff Street, Glenelg East

RESULTS SUMMARY TABLES – SOIL VAPOUR

Soil Vapour Result Summary, 37-41 Cliff Street, Glenelg East, October 2014	VHC					BTEX					TRH	
	Vinyl chloride	<i>cis</i> -1,2-Dichloroethene	1,1,1-Trichloroethane	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylene total	Naphthalene	TPH C ₆ - C ₁₀ - BTEX (F1)	TPH > C ₁₀ - Naphthalene (F2)
Environmental Criteria	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
NEPM 2013 RESIDENTIAL Soil Vapour HSL for Vapour Intrusion, 1m to <2m, Clay						15,000	23,000,000	6,800,000	4,800,000	20,000	4,200,000	3,800,000
NEPM 2013 COMMERCIAL/INDUSTRIAL Soil Vapour HSL for Vapour Intrusion, 1m to <2m, Clay						80,000	100,000,000	31,000,000	21,000,000	85,000	19,000,000	NL
NEPM 2013 RESIDENTIAL Soil Vapour HSL for Vapour Intrusion, 2m to <4m, Clay						40,000	53,000,000	16,000,000	11,000,000	45,000	9,900,000	NL
NEPM 2013 COMMERCIAL/INDUSTRIAL Soil Vapour HSL for Vapour Intrusion, 2m to <4m, Clay						230,000	NL	NL	NL	240,000	55,000,000	NL
NEPM 2013 Interim Soil Vapour HIL Residential A (Gardens/Accessible soil)	30	80	60,000	2000	20							
NEPM 2013 Interim Soil Vapour HIL Commercial / Industrial D	100	300	230,000	8000	80							

Sample	Run Time	Date Sampled	Type of sample	Date analysed	Vinyl chloride	<i>cis</i> -1,2-Dichloroethene	1,1,1-Trichloroethane	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylene total	Naphthalene	TPH C ₆ - C ₁₀ - BTEX (F1)	TPH > C ₁₀ - Naphthalene (F2)
SGP01-2.0	1min	27/10/2014	TD Tube, 235975	1/11/2014	<10	79000 *	<10	51000 *	1400	62	38	<10	<37	14	11000	1200
	5min	27/10/2014	TD Tube, 235973	1/11/2014	<2	79000 *	<2	51000 *	6900 #	24	17	4.4	21	6.9	35000 #	1300
SGP01-0.5 **	1min	27/10/2014	TD Tube, 235974	1/11/2014	<10	31000 #	<10	51000 *	5000 #	49	26	<10	<30	13	25000	1000
	5min	27/10/2014	TD Tube, 235969	1/11/2014	<2	20000 #	<2	51000 *	4100 #	18	13	3.5	17	7.2	21000 #	600
SGP03	1min	24/10/2014	TD Tube, 235968	1/11/2014	<10	54	<10	1500	240	220	44	<10	42	27	1800	5400
	5min	24/10/2014	TD Tube, 235961	1/11/2014	<2	10	<2	5200 #	71	48	13	3.1	14	1.2	1700	1900
SGP04	1min	24/10/2014	TD Tube, 223424	1/11/2014	<10	42	<10	110	76	180	39	<10	35	<10	1500	2200
	5min	24/10/2014	TD Tube, Mi174061	1/11/2014	<2	45	<2	380	170	30	13	2.1	9.5	5.9	440	870
QSV03 - Duplicate of SGP04	1min	24/10/2014	TD Tube, 235979	1/11/2014	<10	39	<10	120	86	100	23	<10	<10	<10	<1400	1759
	5min	24/10/2014	TD Tube, Mi174062	1/11/2014	<2	49	<2	650	200	26	11	2	8.8	4.5	490	1100
QSV4 - Duplicate of SGP04	5min	24/10/2014	TD Tube, Mi172818	1/11/2014	<9.8	56	<9.8	650	200	17	10	<9.8	10	<9.8	1400	610
SGP05-2.5	1min	24/10/2014	TD Tube, 235962	1/11/2014	<10	22	<10	2300	74	130	20	<10	<23	<10	2000	1400
	5min	24/10/2014	TD Tube, 235970	1/11/2014	<2	7	<2	11000 #	210	48	12	2.7	13	7.1	3000	1700
SGP05-1.5	1min	24/10/2014	TD Tube, 235965	1/11/2014	<10	25	<10	24000 *	220	190	31	<10	<30	18	4500	2900
	5min	24/10/2014	TD Tube, 235963	1/11/2014	<2	7	<2	24000 *	180	58	14	3.7	17	9.4	4500	3000
SGP06	1min	24/10/2014	TD Tube, 235967	1/11/2014	<10	27	<10	20000 *	210	260	41	11	46	36	6500	8600
	5min	24/10/2014	TD Tube, 235971	1/11/2014	<2	5	<2	12000 #	72	83	17	5.3	26	24	3500	8100
SGP07	1min	27/10/2014	TD Tube, 235977	1/11/2014	<10	<10	<10	3100	110	88	55	11	50	17	1700	1600
	5min	27/10/2014	TD Tube, 235966	1/11/2014	<2	<2	<2	12000 #	64	19	18	4.5	21	7.6	3100	760
SGP08	1min	27/10/2014	TD Tube, 235964	1/11/2014	<10	<10	<10	1200	32	120	69	12	55	23	<1400	1500
	5min	27/10/2014	TD Tube, 235972	1/11/2014	<2	<2	<2	2100 #	160	38	32	6.2	28	9.5	900	1100
SGP09	1min	23/10/2014	TD Tube, 222984	1/11/2014	<10	100	<10	<10	28	130	59	<10	41	36	5100	1600
	5min	23/10/2014	TD Tube, 222983	1/11/2014	<2	280	<2	<2	190	220	19	3.2	16	15	10000 #	1100
QSV1 - Duplicate of SGP09	1min	23/10/2014	TD Tube, 222985	1/11/2014	<10	180	<10	<10	70	140	24	<10	<30	13	7200	<900
	5min	23/10/2014	TD Tube, 223430	1/11/2014	<2	300	<2	<2	270	290	20	5.5	23	15	13000 #	1700
QSV2 - Duplicate of SGP09	5min	23/10/2014	TD Tube, Mi155270	1/11/2014	<10	540	<10	<10	280	280	22	<10	25	<10	46000	2300
SGP10	1min	23/10/2014	TD Tube, 223423	1/11/2014	<10	140	<10	20	160	280	52	11	49	33	5100	3100
	5min	23/10/2014	TD Tube, 223425	1/11/2014	<2	22	<2	520	42	57	15	4.4	20	16	1400	2000
SGP11-1.5	1min	23/10/2014	TD Tube, Mi174068	1/11/2014	<10	90	<10	640	120	290	50	11	47	27	3500	3900
	5min	23/10/2014	TD Tube, 235980	1/11/2014	<2	15	<2	210	53	36	10	2.6	12	6.7	690	1200
SGP11-2.5	1min	23/10/2014	TD Tube, Mi174063	1/11/2014	<10	76	<10	190	97	100	16	<10	<21	12	<1400	1200
	5min	23/10/2014	TD tube, Mi174070	1/11/2014	<2	120	<2	280	240	43	10	3	14	7.2	700	1400
SGP12	1min	23/10/2014	TD Tube, 235978	1/11/2014	<10	64	<10	240	140	120	19	<10	12	13	1500	1700
	5min	23/10/2014	TD Tube, Mi174069	1/11/2014	<2	25	<2	210	78	54	12	3	16	9.9	670	1800
SGP13 - 1.5	1min	23/10/2014	TD Tube, 223426	1/11/2014	<10	<10	<10	<10	<10	20	67	<10	45	27	<1400	<900
	5min	23/10/2014	TD Tube, 222987	1/11/2014	<2	<2	<2	<2	<2	5.6	14	<2	9.9	6.1	<280	280
SGP13-2.5	1min	23/10/2014	TD Tube, 222951	1/11/2014	<10	<10	<10	<10	<10	21	20	<10	<30	<10	<1400	<900
	5min	23/10/2014	TD Tube, 222988	1/11/2014	<2	<2	<2	<2	<2	12	16	<2	11	6.8	<280	240

NOTES:
 * Result obtained from carbon tube sample
 ** Previous leak tests indicate that the well may be compromised and these results cannot be relied upon
 # Result above linear calibration range of thermal desorption tube (estimated concentration)
 Results indicated in bold are considered the most accurate based on the range of sampling conducted.

Soil Vapour Result Summary, 37-41 Cliff Street, Glenelg East, October 2014 (Accurate Reliable Data)	VHC					BTEX					TRH	
	Vinyl chloride	<i>cis</i> -1,2-Dichloroethene	1,1,1-Trichloroethane	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylene total	Naphthalene	TPH C ₆ - C ₁₀ - BTEX (F1)	TPH > C ₁₀ - C ₁₆ - Naphthalene (F2)
Environmental Criteria	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
NEPM 2013 RESIDENTIAL Soil Vapour HSL for Vapour Intrusion, 1m to <2m, Clay						15,000	23,000,000	6,800,000	4,800,000	20,000	4,200,000	3,800,000
NEPM 2013 COMMERCIAL/INDUSTRIAL Soil Vapour HSL for Vapour Intrusion, 1m to <2m, Clay						80,000	100,000,000	31,000,000	21,000,000	85,000	19,000,000	NL
NEPM 2013 RESIDENTIAL Soil Vapour HSL for Vapour Intrusion, 2m to <4m, Clay						40,000	53,000,000	16,000,000	11,000,000	45,000	9,900,000	NL
NEPM 2013 COMMERCIAL/INDUSTRIAL Soil Vapour HSL for Vapour Intrusion, 2m to <4m, Clay						230,000	NL	NL	NL	240,000	55,000,000	NL
NEPM 2013 Interim Soil Vapour HIL Residential A (Gardens/Accessible soil)	30	80	60,000	2000	20							
NEPM 2013 Interim Soil Vapour HIL Commercial / Industrial D	100	300	230,000	8000	80							

Sample	Date Sampled	Date analysed	Vinyl chloride	<i>cis</i> -1,2-Dichloroethene	1,1,1-Trichloroethane	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylene total	Naphthalene	TPH C ₆ - C ₁₀ - BTEX (F1)	TPH > C ₁₀ - C ₁₆ - Naphthalene (F2)
SGP01-2.0	27/10/2014	1/11/2014	<2	79000 *	<2	51000 *	1400	24	17	4.4	21	6.9	11000	1300
SGP01-0.5 **	27/10/2014	1/11/2014	<2	20000 #	<2	51000 *	4100 #	18	13	3.5	17	7.2	25000	600
SGP03	24/10/2014	1/11/2014	<2	10	<2	1500	71	48	13	3.1	14	12	1700	1900
SGP04	24/10/2014	1/11/2014	<2	45	<2	380	170	30	13	2.1	9.5	5.9	440	870
QSV03 - Duplicate of SGP04	24/10/2014	1/11/2014	<2	49	<2	650	200	26	11	2	8.8	4.5	490	1100
QSV4 - Duplicate of SGP04	24/10/2014	1/11/2014	<9.8	56	<9.8	650	200	17	10	<9.8	10	<9.8	1400	610
SGP05-2.5	24/10/2014	1/11/2014	<2	7	<2	2300	210	48	12	2.7	13	7.1	3000	1700
SGP05-1.5	24/10/2014	1/11/2014	<2	7	<2	24000 *	180	58	14	3.7	17	9.4	4500	3000
SGP06	24/10/2014	1/11/2014	<2	5	<2	20000 *	72	83	17	5.3	26	24	3500	8100
SGP07	27/10/2014	1/11/2014	<2	<2	<2	3100	64	19	18	4.5	21	7.6	3100	760
SGP08	27/10/2014	1/11/2014	<2	<2	<2	1200	160	38	32	6.2	28	9.5	900	1100
SGP09	23/10/2014	1/11/2014	<2	280	<2	<2	190	220	19	3.2	16	15	5100	1100
QSV1 - Duplicate of SGP09	23/10/2014	1/11/2014	<2	300	<2	<2	270	290	20	5.5	23	15	7200	1700
QSV2 - Duplicate of SGP09	23/10/2014	1/11/2014	<10	540	<10	<10	280	280	22	<10	25	<10	46000	2300
SGP10	23/10/2014	1/11/2014	<2	22	<2	520	42	57	15	4.4	20	16	1400	2000
SGP11-1.5	23/10/2014	1/11/2014	<2	15	<2	210	53	36	10	2.6	12	6.7	690	1200
SGP11-2.5	23/10/2014	1/11/2014	<2	120	<2	280	240	43	10	3	14	7.2	700	1400
SGP12	23/10/2014	1/11/2014	<2	25	<2	210	78	54	12	3	16	9.9	670	1800
SGP13 - 1.5	23/10/2014	1/11/2014	<2	<2	<2	<2	<2	5.6	14	<2	9.9	6.1	<280	280
SGP13-2.5	23/10/2014	1/11/2014	<2	<2	<2	<2	<2	12	16	<2	11	6.8	<280	240

NOTES:
 * Result obtained from carbon tube sample
 ** Previous leak tests indicate that the well may be compromised and these results cannot be relied upon
 # Result above linear calibration range of thermal desorption tube (estimated concentration)

Soil Vapour Result Summary, 37-41 Cliff Street, Glenelg East, October 2014				VHC					BTEX					TRH	
				Vinyl chloride µg/m	cis - 1, 2-Dichloroethene µg/m	1, 1, 1-Trichloroethane µg/m	Tetrachloroethene µg/m	Trichloroethene µg/m	Benzene µg/m	Toluene µg/m	Ethylbenzene µg/m	Xylene total µg/m	Naphthalene µg/m	TPH C ₆ - C ₁₀ - BTEX (F1) µg/m	TPH >C ₁₀ - C ₁₆ - Naphthalene (F2) µg/m
Sample	Run Time	Date Sampled	Type of sample												
SGP01_2.0	5min	23/07/2014	TD Tube	<0.002	36 *	<0.002	50 *	12 *	11	18	3.2	9.5	6	51	<0.18
QVP01	5min	23/07/2014	TD Tube	<0.002	36 *	<0.002	52 *	12 *	7.7	10	2	6.1	7	54	<0.18
RPD				-	^	-	^	^	35	57	46	44	15	6	-
SGP01_2.0	5min	23/07/2014	TD Tube	<0.002	36 *	<0.002	50 *	12 *	11	18	3.2	9.5	6	51	<0.18
QVP02	5min	23/07/2014	TD Tube	<0.0098	150	<0.0098	290	21	27	17	<9.8	12	<9.8	370	<0.2
RPD				-	^	-	^	^	84	6	-	23	-	152	-
SGP09	5min	23/10/2014	TD Tube	<2	280	<2	<2	190	220	19	3.2	16	15	10000 *	1100
QSV1	5min	23/10/2014	TD Tube	<2	300	<2	<2	270	290	20	5.5	23	15	13000 *	1700
RPD				-	7	-	-	35	27	5	53	36	0	^	43
SGP09	5min	23/10/2014	TD Tube	<2	280	<2	<2	190	220	19	3.2	16	15	10000 *	1100
QSV2	5min	23/10/2014	TD Tube	<10	540	<10	<10	280	280	22	<10	25	<10	46000	2300
RPD				-	63	-	-	38	24	15	-	44	-	^	71
SGP04	5min	24/10/2014	TD Tube	<2	45	<2	380	170	30	13	2.1	9.5	5.9	440	870
QSV03 - Duplicate of SGP04	5min	24/10/2014	TD Tube	<2	49	<2	650	200	26	11	2	8.8	4.5	490	1100
RPD				-	9	-	52	16	14	17	5	8	27	11	23
SGP04	5min	24/10/2014	TD Tube	<2	45	<2	380	170	30	13	2.1	9.5	5.9	440	870
QSV4 - Duplicate of SGP04	5min	24/10/2014	TD Tube	<9.8	56	<9.8	650	200	17	10	<9.8	10	<9.8	1400	610
RPD				-	22	-	52	16	55	26	-	5	-	104	35

NOTES:

* - designates estimated laboratory result

^ - No comparison made (due to estimated laboratory result in one or both samples)