

Photo Log

	
Photo 1: Kempsey Hospital Redevelopment; Main investigation area, facing south	Photo 2: Stockpile; located on the northeast portion of the main investigation area, facing west
	
Photo 3: Main investigation area, showing the general condition of the surface	Photo 4: Main investigation area, showing the ash and rubble within the fill material
	
Photo 5: Perimeter testpit (TP18), showing bonded ACM within the fill material	Photo 6: Main investigation area (TP05), showing friable ACM within the fill material

Appendix C – Analytical Results Tables

Table A- Analytical Results Summary

Table A: Analytical Results
Client: Johnson
Project: Developments
 Consultancy for
 Kempsey Hospital
Job No.: 2216893

			Asbestos				Metals											
			Moisture	Asbestos Detection	Asbestos Type	Description	Arsenic		Cadmium	Chromium (II+VI)*	Copper	Lead	Lead: TCLP	Mercury	Nickel	Zinc		
							mg/kg	mg/kg									mg/kg	mg/kg
	%																	
ECOL	0.1	Detect	-	-	-	-	-	-	-	-	-	0.01	0.05	5	-	-		
NEPM 1999 HIL F	-	-	-	-	-	500	100	500	5000	1500	-	75	3000	35000	-	-		
NEPM 2013 HIL D	-	-	-	-	-	3000	900	3600	240000	1500	-	730	6000	400000	-	-		
General Solid Waste, CT1	-	-	-	-	-	100	20	100	-	100	-	4	40	-	-	-		
General Solid Waste, SCC1 with TCLP	-	-	-	-	-	500	100	1900	-	1500	5	50	1050	-	-	-		
Restricted Solid Waste, CT2	-	-	-	-	-	400	80	400	-	400	-	16	160	-	-	-		
Restricted Solid Waste, SCC2 with TCLP	-	-	-	-	-	2000	400	7600	-	6000	20	200	4200	-	-	-		
Sample	Date																	
TP01-0.2	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP02-0.2	10/07/2013	25	-	-	-	3.5	0.8	26	32	140	0.03	0.54	9.9	140	-	-		
QA01	10/07/2013	-	Yes	Am	Loose fibres detected in soil/dust												-	-
TP02-0.5	10/07/2013	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP02-1.0	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP02-1.5	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP03-0.2	10/07/2013	14	No	-	-	9.3	<0.4	12	51	14	-	0.09	13	60	-	-		
TP04-BS-0.2	10/07/2013	-	Yes	Cr	Easily crumbling soft fibro plaster containing asbestos fibres and loose asbestos fibres												-	-
TP04-0.5	10/07/2013	28	-	-	-	6.3	0.6	21	58	290	0.03	1.1	17	310	-	-		
TP04-1.0	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP05-0.0	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP05-0.2	10/07/2013	28	-	-	-	2.7	0.5	11	87	110	-	0.35	14	210	-	-		
QA02	10/07/2013	28	-	-	-	6.1	0.9	22	75	130	-	0.41	12	270	-	-		
RPD (%)	10/07/2013	0	-	-	-	77	87	67	15	17	-	16	15	25	-	-		
TP05-1.8	10/07/2013	22	-	-	-	4	<0.4	11	45	2600	0.02	0.44	10	200	-	-		
TP05-BS-1.8	10/07/2013	-	Yes	Cr	Easily crumbling soft fibro plaster containing asbestos fibres and loose asbestos fibres												-	-
TP05-1.8-1	10/07/2013	24	-	-	-	-	-	-	-	170	-	-	-	-	-	-		
TP05-1.8-2	10/07/2013	22	-	-	-	-	-	-	-	150	-	-	-	-	-	-		
TP05-1.8-3	10/07/2013	23	-	-	-	-	-	-	-	140	-	-	-	-	-	-		
TP05-2.0	10/07/2013	-	Yes	Cr	Loose fibres detected in soil/dust												-	-
TP06-0.2	10/07/2013	19	No	-	-	5.2	0.5	16	49	120	-	0.54	9.2	360	-	-		
TP06-0.5	10/07/2013	27	-	-	-	8.4	0.4	22	8.7	14	-	0.06	<5	20	-	-		
TP07-0.2	10/07/2013	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP07-0.5	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP07-1.0	10/07/2013	27	-	-	-	5.3	0.4	27	13	13	-	<0.05	<5	12	-	-		
TP08-0.2	10/07/2013	26	No	-	-	5.5	<0.4	23	7.8	10	-	<0.05	<5	<5	-	-		
QA03	10/07/2013	25	No	-	-	5.3	<0.4	23	6.7	7.5	-	<0.05	<5	<5	-	-		
RPD (%)	10/07/2013	4	-	-	-	4	0	0	15	29	-	0	0	0	-	-		
TP10-0.0	10/07/2013	-	Yes	Cr and Am	Asbestos containing material in bonded form												-	-
TP10-0.2	10/07/2013	27	-	-	-	6.3	0.6	29	15	30	-	1.1	<5	62	-	-		
TP11-0.0	10/07/2013	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP11-0.5	10/07/2013	20	-	-	-	2.7	0.5	9.9	26	120	-	0.44	54	150	-	-		
TP11-1.0	10/07/2013	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP11-2.4	10/07/2013	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP12-0.0	10/07/2013	22	-	-	-	6.6	0.6	22	39	140	-	0.52	5.9	170	-	-		
TP12-0.5	10/07/2013	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP12-1.0	10/07/2013	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP13-0.0	10/07/2013	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP13-0.4	10/07/2013	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP14-0.0	10/07/2013	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP14-0.5	10/07/2013	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP15-0.0	10/07/2013	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP15-0.5	10/07/2013	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP16-0.0	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP16-0.5	10/07/2013	22	-	-	-	2.4	<0.4	23	5.1	8.2	-	0.05	<5	<5	-	-		
TP16-BS-0.3	10/07/2013	-	Yes	Cr and Am	Fragment of fibre cement material												-	-
TP18-0.0	10/07/2013	21	-	-	-	5.2	0.4	15	46	26	-	0.33	10	74	-	-		
TP18-BS-0.0	10/07/2013	-	Yes	Cr and Am	Fragment of fibre cement material												-	-
TP19-0.0	10/07/2013	35	-	-	-	6.6	0.6	10	200	180	<0.01	0.42	16	370	-	-		
TP19-BS-0.0	10/07/2013	-	Yes	Cr	Fragment of fibre cement material												-	-
SS-BS-0.0	10/07/2013	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-		
COMPOSITE	10/07/2013	27	-	-	-	6.1	0.6	16	42	150	0.04	2.1	5.2	280	-	-		

Where no detects have been recorded for TPH, BTEX, PAHs or OCPs, the Total respective concentrations have been calculated as the value of the lowest LOR

LOR = Laboratory Limit of Reporting

*Analytical result is for total Cr. Criteria apply to Cr (VI) only. Cr VI is not expected at this site.

Cr = Chrysotile Asbestos

Am = Amosite Asbestos

	Restricted Solid Waste
	Hazardous Waste
	RPD Exceeds 50%

Table A- Analytical Results Summary

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Client: Johnson
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	BTEX							TPH - NEPM 2013							TPH - NEPM 1999				
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylenes (Sum of Total)	BTEX (Sum of Total)	C6 - C10 less BTEX (F3)	C6 - C10 Fraction	>C10 - C16 less Naphthalene (F2)	>C10 - C16 Fraction	>C16 - C24 Fraction (F3)	>C24 - C40 Fraction (F4)	>C40 - C60 (Sum of Total)	C6 - C9 Fraction	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C38 Fraction	C40 - C50 (Sum of Total)
ECI	0.1	0.1	0.1	0.2	0.1	0.1	0.1	20	20	50	50	100	100	20	20	50	50	50	50
NEPM 1999 HIL F																			
NEPM 2013 HIL D																			
General Solid Waste, CT1	10	288	600			1000													
General Solid Waste, SCC1 with TCLF	18	518	1080			1800													
Restricted Solid Waste, CT2	40	1152	2400			4000													
Restricted Solid Waste, SCC2 with TC	72	2073	4320			7200													
Sample	Date																		
TP01-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
QA01	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-1.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP04-BS-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-0.5	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP04-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
QA02	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
RPD (%)		-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
TP05-1.8	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP05-BS-1.8	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-1	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-2.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP06-0.5	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP07-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-1.0	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP08-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
QA03	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
RPD (%)		-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
TP10-0.0	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP10-0.2	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP11-0.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0.5	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP11-1.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP11-2.4	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0.0	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	200	260	460	<20	<20	56	210	266
TP12-0.5	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP12-1.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0.4	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP14-0.5	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0.0	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0.5	10/07/2013	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.5	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP16-BS-0.3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0.0	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP19-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.0	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20
TP19-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMPOSITE	10/07/2013	-	-	-	-	-	-	<20	<20	<50	<50	<100	<100	<50	<20	<20	<50	<50	<20

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LOR = Laboratory Limit of Reporting

*Analytical result is for total Cr. Criteria apply to Cr (VI) only. Cr VI is not expected at this site.

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	Restricted Solid Waste
	Hazardous Waste
	RPD Exceeds 50%



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	Restricted Solid Waste
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CLIENTS|PEOPLE|PERFORMANCE

Table A- Analytical Results Summary

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Client: Johnson
Project: Developments
Consultancy for
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		OC Pesticides																										
		4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin (Sum of Total)	b-BHC	Chlordane (cis)	Chlordane (trans)	Chlordane (Sum of Total)	d-BHC	DDD	DDT	DDT + DDD + DDE (Sum of Total)	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan (Sum of Total)	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	hepachlor	hepachlor epoxide	hepachlor (Sum of Total)	hexachlorobenzene	methoxychlor	OCs (Sum of Total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ECI		0.05	0.05	0.05		0.05	0.05	0.05		0.05	0.05	0.2		0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.2	
NEPM 1999 HIL F					50				250				1000						2000	100						50		
NEPM 2013 HIL D					45				530				3600													50	80	2500
General Solid Waste, CT1																												
General Solid Waste, SCC1 with TCLF																												
Restricted Solid Waste, CT2																												
Restricted Solid Waste, SCC2 with TCLF																												
Sample	Date																											
TP01-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP02-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QA01	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP02-0.5	10/07/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.2	<0.05
TP02-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP02-1.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP03-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP04-B5-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP04-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP04-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-0.2	10/07/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.2	<0.05
QA02	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RPD (%)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-1.8	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-B5-1.8	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-1.8-1	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-1.8-2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-1.8-3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP05-2.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP06-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP06-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP07-0.2	10/07/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.2	<0.05
TP07-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP07-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP08-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QA03	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RPD (%)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP10-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP10-0.2	10/07/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.2	<0.05
TP11-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP11-0.5	10/07/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.2	<0.05
TP11-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP11-2.4	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP12-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP12-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP12-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP13-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP13-0.4	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP14-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP14-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP15-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP15-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP16-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP16-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP16-B5-0.3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP18-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP18-B5-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP19-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP19-B5-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SS-B5-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COMPOSITE	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Where no detects have been recorded for TPH, BTEX, PAHs or OCPs, the Total respective concentrations have been calculated as the value of the lowest LOR

LOR = Laboratory Limit of Reporting

*Analytical result is for total Cr. Criteria apply to Cr (VI) only. Cr VI is not expected at this site.

Cr = Chrysotile Asbestos

Am = Amosite Asbestos

Restricted Solid Waste
Hazardous Waste
RPD Exceeds 50%

Table A- Analytical Results Summary

Table A: Analytical Results
 Client: Johnson
 Project: Developments
 Consultancy for
 Kempsey Hospital
 Job No.: 2216893

		VOCs																									
		1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethane	1,2-dichloropropane	1,2,4-trichlorobenzene	1,2,4-trimethylbenzene	1,2-dibromomethane	1,2-dichlorobenzene	1,2-dichloroethane	1,3,5-trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-butanone (MEK)	2-butanone (MIBK)	2-pentanone	4-methyl-2-pentanone (MIBK)	Bromochloromethane	Bromofom	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ECI		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 1999 HIL F																											
NEPM 2013 HIL D																											
General Solid Waste, CT1		200	600	24												150	4000								10	2000	
General Solid Waste, SCC1 with TCLF		360	1080	43.2												270	7200								18	3600	
Restricted Solid Waste, CT2		800	2400	96												600	16000								40	8000	
Restricted Solid Waste, SCC2 with TCLF		1440	4320	172.8												1080	28,800								72	14,400	
Sample	Date																										
TP01-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-1.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-BS-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD (%)																											
TP04-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-BS-1.8	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-1	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-1.8-3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-2.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07-1.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD (%)																											
TP10-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0.2	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP11-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-1.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP11-2.4	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP12-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0.5	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP12-1.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP13-0.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP13-0.4	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP14-0.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP14-0.5	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP15-0.0	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP15-0.5	10/07/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP16-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0.5	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-BS-0.3	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS-BS-0.0	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMPOSITE	10/07/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Where no detections have been recorded for TPH, BTEX, PAHs or OCPs, the Total respective concentrations have been calculated as the value of the lowest LOR

LOR = Laboratory Limit of Reporting

*Analytical result is for total Cr. Criteria apply to Cr (VI) only. Cr VI is not expected at this site.

Cr = Chrysotile Asbestos

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Restricted Solid Waste
 Hazardous Waste
 RPD Exceeds 50%



Job No.: 2216893

	Restricted Solid Waste
	Hazardous Waste
	RPD Exceeds 50%

Appendix D – Laboratory Certificates



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET34148/ 37328 / 1 - 20

Your ref : 385760

NATA Accreditation No: 14484

19 July 2013

Eurofins | mgt

Unit F3, Building F, 16 Mars Road

Lane Cove NSW 2066

Attn: Dr Robert Symons

Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of twenty samples, forwarded by Eurofins | mgt on 15 July 2013, for analysis for asbestos. This report supersedes the report issued on 15 July 2013.

1.Introduction: Twenty samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method.
(Safer Environment Method 1.)

3. Results : **Sample No. 1. ASET34148 / 37328 / 1. TP01 - 0.2 - JI09103.**

Approx dimensions 8.7 cm x 8.4 cm x 7.2 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster, glass and coal like material.

No asbestos detected.

Sample No. 2. ASET34148 / 37328 / 2. TP02 - 1.0 - JI09109.

Approx dimensions 8.6 cm x 8.1 cm x 7.3 cm

The sample consisted of a mixture of clayish soil, stones and plant matter.

No asbestos detected.

Sample No. 3. ASET34148 / 37328 / 3. TP02 - 1.5 - JI09110.

Approx dimensions 8.7 cm x 8.2 cm x 7.6 cm

The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of bitumen.

No asbestos detected.

Sample No. 4. ASET34148 / 37328 / 4. TP03 - 0.2 - JI09112.

Approx dimensions 8.6 cm x 8.2 cm x 7.7 cm

The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of shale.

No asbestos detected.

Sample No. 5. ASET34148 / 37328 / 5. TP04 - 1.0 - JI09118.

Approx dimensions 8.6 cm x 8.2 cm x 8.1 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster and coal like material.

No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

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ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Sample No. 6. ASET34148 / 37328 / 6. TP05 - 0.0 - JI09122.

Approx dimensions 9.2 cm x 8.3 cm x 7.5 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, synthetic mineral fibres, fragments of ceramic tile, plaster and coal like material.

No asbestos detected.

Sample No. 7. ASET34148 / 37328 / 7. TP05 - BS - 1.8 - JI09127.

Approx dimensions 23.1 cm x 5.2 cm x 0.4 cm

The sample consisted of fragments of a soft fibro plaster material#.

Chrysotile asbestos detected.

Sample No. 8. ASET34148 / 37328 / 8. TP05 - 2.0 - JI09128.

Approx dimensions 8.4 cm x 8.3 cm x 7.3 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fibres^ and fragments of plaster.

Chrysotile^ asbestos detected.

Sample No. 9. ASET34148 / 37328 / 9. TP06 - 0.2 - JI09130.

Approx dimensions 8.7 cm x 8.5 cm x 8.2 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster and coal like material.

No asbestos detected.

Sample No. 10. ASET34148 / 37328 / 10. TP07 - 0.5 - JI09134.

Approx dimensions 8.4 cm x 8.1 cm x 7.6 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster, glass and coal like material.

No asbestos detected.

Sample No. 11. ASET34148 / 37328 / 11. TP08 - 0.2 - JI09138.

Approx dimensions 8.4 cm x 8.3 cm x 8.2 cm

The sample consisted of a mixture of clayish soil, stones and plant matter.

No asbestos detected.

Sample No. 12. ASET34148 / 37328 / 12. TP10 - 0.0 - JI09143.

Approx dimensions 8.6 cm x 8.4 cm x 8.2 cm

The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of fibre cement*.

Chrysotile* asbestos and Amosite* asbestos detected.

Sample No. 13. ASET34148 / 37328 / 13. TP16 - 0.0 - JI09159.

Approx dimensions 8.5 cm x 8.2 cm x 7.9 cm

The sample consisted of a mixture of clayish soil, stones and plant matter.

No asbestos detected.

Sample No. 14. ASET34148 / 37328 / 14. TP16 - BS - 0.3 - JI09161.

Approx dimensions 8.7 cm x 8.2 cm x 7.5 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.

Sample No. 15. ASET34148 / 37328 / 15. TP18 - BS - 0.0 - JI09165.

Approx dimensions 5.2 cm x 2.6 cm x 0.35 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.



Sample No. 16. ASET34148 / 37328 / 16. TP19 - BS - 0.0 - JI09168.

Approx dimensions 4.3 cm x 2.4 cm x 0.4 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos detected.

Sample No. 17. ASET34148 / 37328 / 17. SS - BS - 0.0 - JI09173.

Approx dimensions 15.3 cm x 10.7 cm x 2.5 cm

The sample consisted of a fibrous mass of synthetic mineral fibres.

No asbestos detected.

Sample No. 18. ASET34148 / 37328 / 18. QA01 - JI09178.

Approx dimensions 8.4 cm x 8.3 cm x 7.6 cm

The sample consisted of a mixture of clayish soil, stones, plant matter, fibres[^] and fragments of cement.

Amosite[^] asbestos detected.

Sample No. 19. ASET34148 / 37328 / 19. QA03 - JI09180.

Approx dimensions 8.4 cm x 8.3 cm x 7.7 cm

The sample consisted of a mixture of clayish soil, stones and plant matter.

No asbestos detected.

Sample No. 20. ASET34148 / 37328 / 20. TP04 - BS - 1.8 - JI09121.

Approx dimensions 5.6 cm x 2.8 cm x 0.3 cm

The sample consisted of fragments of a soft fibro plaster material[#].

Chrysotile asbestos detected.

Analysed and reported by,

A handwritten signature in black ink, appearing to read "Laxman Dias". The signature is fluid and cursive, with a long horizontal stroke at the end.

**Laxman Dias. BSc
Analyst / Approved Identifier
Approved Signatory**



**This document is issued in accordance with
NATA's Accreditation requirements. Accredited
for compliance with ISO/IEC 17025.**

[^] denotes loose fibres detected in soil/dust and the relevant asbestos types detected.

[#] denotes easily crumbling soft fibro plaster containing asbestos fibres and loose asbestos fibres.

^{*} denotes asbestos in asbestos containing material in bonded form.

385760

Amylia

From: Matthew Clutterham [mailto:Matthew.Clutterham@ghd.com]
Sent: Friday, July 12, 2013 10:51 AM
To: Bob Symons
Cc: Jean Heng; Amylia Fletcher
Subject: COC attached - Urgent samples from Kempsey

Hi Bob,

Please find attached the COC as discussed.

Could you also please send the results to afletcher@ghd.com

Thanks heaps

Matt

Matthew Clutterham
Principal Environmental Scientist – Contamination Assessment and Remediation
Client Relationship Manager

GHD

T: +61 2 9239 7036 | V: 217036 | M: 0422 983 914 | E: matthew.clutterham@ghd.com
Level 15 133 Castlereagh Street Sydney NSW 2000 Australia | www.ghd.com

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Please consider our environment before printing this email

From: 2216893
Sent: Friday, 12 July 2013 9:27 AM
To: 'Bob Symons'
Subject: FW: Urgent samples from Kempsey
Importance: High

Hi Bob,

Have you received samples for job number 2216893 this morning?

It is the urgent one please.

What time can you send samples to ASET?

Cheers

Matt

Matthew Clutterham
Principal Environmental Scientist – Contamination Assessment and Remediation
Client Relationship Manager



PLEASE RETURN ALL DATA IN ESDAT FORMAT

CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

GHD Pty Ltd Level 15, 133 Castlereagh Street Sydney NSW 2000

Telephone: (02) 9239 7100

Fax: (02) 9239 7194

ABN 39 008 488 373

Project No. 2216893

Phone No. 02 9239 7036

Sent to Lab: MGT Labmark

Project Name Kempsey Hospital

Fax No. 02 9239 7195

Address: Unit F6 Building F, 16 Mars Road

Date Required: 15/07/2013

Project Manager Matthew Clutterham

Email:

Lane Cove West, NSW 2066

Attention: Bob Symons

Date Submitted: 12/07/2013

Contact Name Amelia Fletcher

Fax: 9420 2977

Phone: 8215 6222

Page 1 of 6

SAMPLE No.	Date Sampled	No. of Containers	Container Type / Size	MATRIX		PRESERVATION				ANALYSIS REQUIRED										COMMENTS			
				Water	Soil	Chill	Acid	Chiller	TRH	PAH	HM (M8)	OCP	PCB	Asbestos Presence/Absence	Hola	7	8	9	10				
TP01 - 0.0	10/7/13				X										X								
TP01 - 0.2	10/7/13				X									X									
TP01 - 0.5	10/7/13				X										X								
TP01 - 1.0	10/7/13				X										X								
TP02 - 0.0	10/7/13				X										X								
TP02 - 0.2	10/7/13				X				X	X	X				X								
TP02 - 0.5	10/7/13				X							X	X										
TP02 - 1.0	10/7/13				X									X									
TP02 - 1.5	10/7/13				X									X									
TP03 - 0.0	10/7/13				X									X									
TP03 - 0.2	10/7/13				X				X	X	X			X									
TP03 - 0.5	10/7/13				X										X								
TP03 - 1.0	10/7/13				X										X								
TP03 - 1.5	10/7/13				X										X								

#385760
Jar=TP01-0.3

RELINQUISHED BY					RECEIVED BY				
Name	Signature	Date	Time	Stamp	Name	Signature	Date	Time	Stamp
A. Fletcher	GHD	10/07/2013			Priscilla Eumfinsinger		12-7-13	1051	
RELINQUISHED BY					RECEIVED BY				
Name	Signature	Date	Time	Stamp	Name	Signature	Date	Time	Stamp

It is the responsibility of the receiver to verify that the number of samples and their identifying sample numbers correspond to those listed on this form

PLEASE EMAIL COMPLETED FORM TO GHD PROJECT MANAGER ON RECEIPT



GHD Pty Ltd, Level 15, 222 Castlereagh Street, Sydney NSW 2000

Telephone: (312) 923-7100

Fax: (823) 9239-7194

ADN 22 000 488 373

Project No.	2218893	Phone No.	02 9239 7030
Project Name	Kempsey Hospital	Fax No.	02 9239 7195
Project Manager	Matthew Duffin	Email:	
Contact Name	Amelia Fisher		

Sent to Lab: MGY Labmark
Address: Unit F6, Building F, 16 Mars Road
Lane Cove West, NSW, 2066
Fax: 9420 2977

Date Required: 10/07/2013
 Attention: Bob Symons Date Submitted: 10/07/2013
 Phone: 8215 6222 Page 2 of 6

PLEASE EMAIL COMPLETED FORM TO OND PROJECT MANAGER ON RECEIPT



GHD Pty Ltd, Level 15, 133 Castlemaine Street, Sydney NSW 2000

Telephone: 02 9239 7100

Fax: (02) 9238 7194

ANN 29 008 458 375

Project No.	2210003	Phone No.	02 99 26 7038
-------------	---------	-----------	---------------

Phone No. 03 9239 7038

Sent to Lab: MGT Labmark

Project Name	Kennedy Hospital	Fax No.	02 9239 7195
---------------------	------------------	----------------	--------------

Fax No. 02 9239 7195

Address: Unit F6, Building F, 16 ~~Mare Road~~

Date Required: 1/10/2013

Project Manager	Matthew Clapham	Email:
-----------------	-----------------	--------

Email:

Lane Cove West, NSW, 2066

Attention: Bob Symons Date Submitted: 12/07/2013

Contact Name: Amelia Fletcher

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Fax: 9420 2977

Phone: 8216 6222 Page 3 of 6

PLEASE EMAIL COMPLETED FORM TO GND PROJECT MANAGER ON RECEIPT

FILE REF: B:\Invest\Contaminated Land\FIA\PMI\Buck House\COG\Inventory\SLIST\Linked COG Inventory.xls



© Ph Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Telephone: 0371 8232 7100

File: 0023 0206 7184

APR 28 2008 4:00 PM

Project No.	2215093	Phone No.	02 4236 7034
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Send to Lab: MGT Labmark

Date Required: 19/07/2013

Project Name	Komjany Hospital	Fax No.	02 9239 7196
---------------------	------------------	----------------	--------------

Address: Unit FB, Building F, 16 Mars Road

Attention: Bob Symone Date Submitted: 12/07/2013

Project Manager	Matthew Cullenham	Email:
------------------------	-------------------	---------------

Fax: 9420 2977

Phone: 8215 6222

Page 4 of 6

Contact Name	Amelia Fletcher	mcfletcher@and.co
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PLEASE EMAIL COMPLETED FORM TO OND PROJECT MANAGER ON RECEIPT

FILE PATH: S:\Marketing\Outreach\01-2016\HMSA\BentleyCOO\Inventory\0121 - closed COO Inventory.xlsx



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CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

GHD Pty Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Telephone: (02) 9239 7100

Fax: (02) 9239 7194

ABN 70 006 488 273

Project No. 2210003

Phone No. 02 9239 7100

Sent to Lab: MGT Labmark

Project Name Kennedy Hospital

Fax No. 02 9239 7195

Address: Unit F6, Building F, 16 Mars Road

Date Required: 15/07/2013

Project Manager Matthew Christian

Email:

Lane Cove West, NSW, 2066

Attention: Bob Symons

Date Submitted: 12/07/2013

Contact Name Anyka Fieldner

m.cristian@ghd.com

Fax: 0420 2077

Phone: 0215 8222

Page 5 of 6

SAMPLE No.	Date Sampled	No. of Containers	Container Type (Size)	MATRIX			PRESERVATION					ANALYSIS REQUIRED					COMMENTS				
				Water	Soil	Chill	Add	Other	TRH	PAH	HM (MR)	OCF	PCB	Asbestos Presence/Absence	Hold	8	9	10			
TP16-B3	10/7/13				X					X	X	X									#385760
TP16-B5-1.0	10/7/13				X								X								Bag: TP16-B5
TP17-C0	10/7/13				X									X							
TP17-C3	10/7/13				X									X							
TP18-B0	10/7/13				X									X							
TP18-B5-0.1	10/7/13				X								X								Bag: TP18-B5
TP18-B4	10/7/13				X									X							
TP18-C0	10/7/13				X									X							
TP19-B5-0.1	10/7/13				X					X	X	X		X							Bag: TP19-B5
TP20-B3	10/7/13				X									X							
TP20-B5	10/7/13				X										X						
TP20-B0	10/7/13				X										X						Bag: TP20-B5
TP20-B4	10/7/13				X										X						
TP20-B0	10/7/13				X									X							
TP20-B3	10/7/13				X										X						
TP20-B5	10/7/13				X										X						
TP20-B3	10/7/13				X										X						
TP20-B5	10/7/13				X										X						
TP20-B3	10/7/13				X										X						
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TP20-B5	10/7/13				X										X						
TP20-B3	10/7/13				X									</							



PLEASE RETURN ALL DATA IN EXCEL FORMAT

CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

GHD Pty Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Telephone: (02) 9238 7100

Fax: (02) 9238 7194

AMN 25 038 488 373

Project No. 221883 Phone No. 02 9238 7036

Sent to Lab: MGT Labmark

Project Name Kompass Hospital Fax No. 02 9239 7195

Address: Unit F6, Building F, 16 Mars Road

Date Required: 18/07/2013

Project Manager Matthew Cliftedham Email:

Lane Cove West, NSW, 2086

Attention: Bob Symons

Date Submitted: 12/07/2013

Contact Name Amylie Fletcher

Fax: 9420 2977

Phone: 8215 8222

Page 6 of 6

SAMPLE No.	Date Sampled	No. of Containers	Container Type / Size	MATRIX		PRESERVATION					ANALYSIS REQUIRED							Asbestos Presence/Absence	COMMENTS			
				Water	Soil	CHE	AsM	Other	TRI	PAH	HM (MH)	OCF	PCB	Asbestos	Hold							
SP2	10/7/13				X				Composite 1													
SP3	10/7/13				X																	
QA 01	10/7/13				X									X								
QA 02	10/7/13				X				X	X	X											
QA 03	10/7/13				X				X	X	X			X								
QA 04	10/7/13				X										X							
QA 05	10/7/13				X										X							
QA 06	10/7/13				X										X							
SS														X								

RELINQUISHED BY				RECEIVED BY			
Name	Signature	Date	Time	Name	Signature	Date	Time
A. Fletcher	GHD	10/07/2013		MFL	Asulata	12.7.13	10.51
RELINQUISHED BY				RECEIVED BY			
Name	Signature	Date	Time	Name	Signature	Date	Time

It is the responsibility of the receiver to verify that the number of samples and their identifying sample numbers correspond to those listed on this form.
PLEASE EMAIL COMPLETED FORM TO GHD PROJECT MANAGER ON RECEIPT

FILE REF: 8\Sample\Centennial Lendoff\GHD\Labmark\OCF sample\GHD Labmark OCF sample.xls\Print

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000
Client Job No.: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 385760
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 12, 2013 10:51 AM
Due: Jul 15, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
TP01-0.0	Jul 10, 2013		Soil	S13-JI09102				X						
TP01-0.2	Jul 10, 2013		Soil	S13-JI09103		X								
TP01-0.5	Jul 10, 2013		Soil	S13-JI09104				X						
TP01-1.0	Jul 10, 2013		Soil	S13-JI09105				X						
TP02-0.0	Jul 10, 2013		Soil	S13-JI09106				X						
TP02-0.2	Jul 10, 2013		Soil	S13-JI09107	X				X	X			X	
TP02-0.5	Jul 10, 2013		Soil	S13-JI09108	X						X	X		
TP02-1.0	Jul 10, 2013		Soil	S13-JI09109		X								
TP02-1.5	Jul 10, 2013		Soil	S13-JI09110		X								
TP03-0.0	Jul 10, 2013		Soil	S13-JI09111				X						

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000
Client Job No.: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 385760
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 12, 2013 10:51 AM
Due: Jul 15, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP03-0.2	Jul 10, 2013		Soil	S13-JI09112	X	X			X	X			X	
TP03-0.5	Jul 10, 2013		Soil	S13-JI09113				X						
TP03-1.0	Jul 10, 2013		Soil	S13-JI09114				X						
TP04-0.0	Jul 10, 2013		Soil	S13-JI09115			X							
TP04-0.2	Jul 10, 2013		Soil	S13-JI09116				X						
TP04-0.5	Jul 10, 2013		Soil	S13-JI09117	X				X	X			X	
TP04-1.0	Jul 10, 2013		Soil	S13-JI09118		X								
TP04-BS-1.0	Jul 10, 2013		Soil	S13-JI09119				X						
TP04-1.8	Jul 10, 2013		Soil	S13-JI09120				X						
TP04-BS-0.2	Jul 10, 2013		Soil	S13-JI09121		X								
TP05-0.0	Jul 10, 2013		Soil	S13-JI09122		X								

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP05-0.2	Jul 10, 2013		Soil	S13-JI09123	X				X	X	X	X	X	
TP05-0.5	Jul 10, 2013		Soil	S13-JI09124				X						
TP05-1.0	Jul 10, 2013		Soil	S13-JI09125				X						
TP05-1.8	Jul 10, 2013		Soil	S13-JI09126	X				X	X			X	
TP05-BS-1.8	Jul 10, 2013		Soil	S13-JI09127		X								
TP05-2.0	Jul 10, 2013		Soil	S13-JI09128		X								
TP06-0.0	Jul 10, 2013		Soil	S13-JI09129				X						
TP06-0.2	Jul 10, 2013		Soil	S13-JI09130	X	X			X	X			X	
TP06-0.5	Jul 10, 2013		Soil	S13-JI09131	X				X	X			X	
TP07-0.0	Jul 10, 2013		Soil	S13-JI09132				X						
TP07-0.2	Jul 10, 2013		Soil	S13-JI09133	X						X	X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP07-0.5	Jul 10, 2013		Soil	S13-JI09134		X								
TP07-1.0	Jul 10, 2013		Soil	S13-JI09135	X				X	X			X	
TP07-1.2	Jul 10, 2013		Soil	S13-JI09136				X						
TP08-0.0	Jul 10, 2013		Soil	S13-JI09137				X						
TP08-0.2	Jul 10, 2013		Soil	S13-JI09138	X	X			X	X			X	
TP09-0.0	Jul 10, 2013		Soil	S13-JI09139				X						
TP09-0.2	Jul 10, 2013		Soil	S13-JI09140				X						
TP09-0.5	Jul 10, 2013		Soil	S13-JI09141				X						
TP09-0.7	Jul 10, 2013		Soil	S13-JI09142				X						
TP10-0.0	Jul 10, 2013		Soil	S13-JI09143		X								
TP10-0.2	Jul 10, 2013		Soil	S13-JI09144	X				X	X	X	X	X	

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Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP14-0.5	Jul 10, 2013		Soil	S13-JI09156	X									X
TP15-0.0	Jul 10, 2013		Soil	S13-JI09157	X									X
TP15-0.5	Jul 10, 2013		Soil	S13-JI09158	X									X
TP16-0.0	Jul 10, 2013		Soil	S13-JI09159		X								
TP16-0.5	Jul 10, 2013		Soil	S13-JI09160	X				X	X			X	
TP16-BS-0.3	Jul 10, 2013		Soil	S13-JI09161				X						
TP17-0.0	Jul 10, 2013		Soil	S13-JI09162				X						
TP17-0.3	Jul 10, 2013		Soil	S13-JI09163				X						
TP18-0.0	Jul 10, 2013		Soil	S13-JI09164	X				X	X			X	
TP18-BS-0.0	Jul 10, 2013		Soil	S13-JI09165		X								
TP18-0.4	Jul 10, 2013		Soil	S13-JI09166				X						

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Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP19-0.0	Jul 10, 2013		Soil	S13-JI09167	X				X	X			X	
TP19-BS-0.0	Jul 10, 2013		Soil	S13-JI09168		X								
TP19-0.5	Jul 10, 2013		Soil	S13-JI09169				X						
TP20-0.0	Jul 10, 2013		Soil	S13-JI09170				X						
TP20-0.3	Jul 10, 2013		Soil	S13-JI09171				X						
TP15-0.5	Jul 10, 2013		Soil	S13-JI09172			X							
SS BS 0.0	Jul 10, 2013		Soil	S13-JI09173		X								
SP1	Jul 10, 2013		Soil	S13-JI09174				X						
SP2	Jul 10, 2013		Soil	S13-JI09175				X						
SP3	Jul 10, 2013		Soil	S13-JI09176				X						
COMPOSITE 1	Jul 10, 2013		Soil	S13-JI09177	X				X	X			X	

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Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
QA01	Jul 10, 2013		Soil	S13-JI09178		X								
QA02	Jul 10, 2013		Soil	S13-JI09179	X				X	X			X	
QA03	Jul 10, 2013		Soil	S13-JI09180	X	X			X	X			X	
QA04	Jul 10, 2013		Soil	S13-JI09181				X						
QA05	Jul 10, 2013		Soil	S13-JI09182				X						
QA06	Jul 10, 2013		Soil	S13-JI09183				X						
SS	Jul 10, 2013		Soil	S13-JI09184			X							

GHD Pty Ltd NSW
Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Attention: Matt Clutterham

Report 385760-S-V3
Client Reference KEMPSEY HOSPITAL 2216893
Received Date Jul 12, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			TP01-0.2	TP02-0.2	TP02-0.5	TP02-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09103	S13-JI09107	S13-JI09108	S13-JI09109
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH	1	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ	0.5	mg/kg	-	0.6	-	-
2-Fluorobiphenyl (surr.)	1	%	-	109	-	-
p-Terphenyl-d14 (surr.)	1	%	-	98	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP01-0.2 Soil S13-JI09103 Jul 10, 2013	TP02-0.2 Soil S13-JI09107 Jul 10, 2013	TP02-0.5 Soil S13-JI09108 Jul 10, 2013	TP02-1.0 Soil S13-JI09109 Jul 10, 2013
Polychlorinated Biphenyls (PCB)						
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchloredate (surr.)	1	%	-	-	99	-
Organochlorine Pesticides (OC)						
4,4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDT	0.2	mg/kg	-	-	< 0.2	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
a-Chlordane	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
g-Chlordane	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Dibutylchloredate (surr.)	1	%	-	-	99	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	125	-
Heavy Metals						
Arsenic	2	mg/kg	-	3.5	-	-
Cadmium	0.4	mg/kg	-	0.8	-	-
Chromium	5	mg/kg	-	26	-	-
Copper	5	mg/kg	-	32	-	-
Lead	5	mg/kg	-	140	-	-
Mercury	0.05	mg/kg	-	0.54	-	-
Nickel	5	mg/kg	-	9.9	-	-
Zinc	5	mg/kg	-	140	-	-
% Moisture	0.1	%	-	25	28	-
Asbestos			see attached	-	-	see attached

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP02-1.5 Soil S13-JI09110 Jul 10, 2013	TP03-0.2 Soil S13-JI09112 Jul 10, 2013	TP04-0.5 Soil S13-JI09117 Jul 10, 2013	TP04-1.0 Soil S13-JI09118 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	< 50	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH	1	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ	0.5	mg/kg	-	0.6	0.6	-
2-Fluorobiphenyl (surr.)	1	%	-	112	106	-
p-Terphenyl-d14 (surr.)	1	%	-	102	93	-
Heavy Metals						
Arsenic	2	mg/kg	-	9.3	6.3	-
Cadmium	0.4	mg/kg	-	< 0.4	0.6	-
Chromium	5	mg/kg	-	12	21	-
Copper	5	mg/kg	-	51	58	-
Lead	5	mg/kg	-	14	290	-
Mercury	0.05	mg/kg	-	0.09	1.1	-
Nickel	5	mg/kg	-	13	17	-
Zinc	5	mg/kg	-	60	310	-
% Moisture	0.1	%	-	14	28	-
Asbestos			see attached	see attached	-	see attached

Client Sample ID			TP04-BS-0.2	TP05-0.0	TP05-0.2	TP05-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09121	S13-JI09122	S13-JI09123	S13-JI09126
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH	1	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	-	-	0.6	0.6
2-Fluorobiphenyl (surr.)	1	%	-	-	103	105
p-Terphenyl-d14 (surr.)	1	%	-	-	92	95
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorodate (surr.)	1	%	-	-	111	-
Organochlorine Pesticides (OC)						
4,4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDT	0.2	mg/kg	-	-	< 0.2	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID			TP04-BS-0.2	TP05-0.0	TP05-0.2	TP05-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09121	S13-JI09122	S13-JI09123	S13-JI09126
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Organochlorine Pesticides (OC)						
a-Chlordane	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
g-Chlordane	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Dibutylchloredate (surr.)	1	%	-	-	111	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	128	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	2.7	4.0
Cadmium	0.4	mg/kg	-	-	0.5	< 0.4
Chromium	5	mg/kg	-	-	11	11
Copper	5	mg/kg	-	-	87	45
Lead	5	mg/kg	-	-	110	2600
Mercury	0.05	mg/kg	-	-	0.35	0.44
Nickel	5	mg/kg	-	-	14	10
Zinc	5	mg/kg	-	-	210	200
% Moisture	0.1	%	-	-	28	22
Asbestos			see attached	see attached	-	-

Client Sample ID			TP05-BS-1.8	TP05-2.0	TP06-0.2	TP06-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09127	S13-JI09128	S13-JI09130	S13-JI09131
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP05-BS-1.8 Soil S13-JI09127 Jul 10, 2013	TP05-2.0 Soil S13-JI09128 Jul 10, 2013	TP06-0.2 Soil S13-JI09130 Jul 10, 2013	TP06-0.5 Soil S13-JI09131 Jul 10, 2013
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH	1	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	-	-	0.6	0.6
2-Fluorobiphenyl (surr.)	1	%	-	-	108	104
p-Terphenyl-d14 (surr.)	1	%	-	-	98	94
Heavy Metals						
Arsenic	2	mg/kg	-	-	5.2	8.4
Cadmium	0.4	mg/kg	-	-	0.5	0.4
Chromium	5	mg/kg	-	-	16	22
Copper	5	mg/kg	-	-	49	8.7
Lead	5	mg/kg	-	-	120	14
Mercury	0.05	mg/kg	-	-	0.54	0.06
Nickel	5	mg/kg	-	-	9.2	< 5
Zinc	5	mg/kg	-	-	360	20
% Moisture	0.1	%	-	-	19	27
Asbestos			see attached	see attached	see attached	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP07-0.2 Soil S13-JI09133 Jul 10, 2013	TP07-0.5 Soil S13-JI09134 Jul 10, 2013	TP07-1.0 Soil S13-JI09135 Jul 10, 2013	TP08-0.2 Soil S13-JI09138 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH	1	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	-	-	0.6	0.6
2-Fluorobiphenyl (surr.)	1	%	-	-	120	105
p-Terphenyl-d14 (surr.)	1	%	-	-	112	88
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorodate (surr.)	1	%	99	-	-	-
Organochlorine Pesticides (OC)						
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.2	mg/kg	< 0.2	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP07-0.2 Soil S13-JI09133 Jul 10, 2013	TP07-0.5 Soil S13-JI09134 Jul 10, 2013	TP07-1.0 Soil S13-JI09135 Jul 10, 2013	TP08-0.2 Soil S13-JI09138 Jul 10, 2013
Organochlorine Pesticides (OC)						
a-Chlordane	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
g-Chlordane	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Dibutylchlorodate (surr.)	1	%	99	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	125	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	5.3	5.5
Cadmium	0.4	mg/kg	-	-	0.4	< 0.4
Chromium	5	mg/kg	-	-	27	23
Copper	5	mg/kg	-	-	13	7.8
Lead	5	mg/kg	-	-	13	10
Mercury	0.05	mg/kg	-	-	< 0.05	< 0.05
Nickel	5	mg/kg	-	-	< 5	< 5
Zinc	5	mg/kg	-	-	12	< 5
% Moisture	0.1	%	24	-	27	26
Asbestos			-	see attached	-	see attached

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP10-0.0 Soil S13-JI09143 Jul 10, 2013	TP10-0.2 Soil S13-JI09144 Jul 10, 2013	TP11-0.0 Soil S13-JI09146 Jul 10, 2013	TP11-0.5 Soil S13-JI09147 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP10-0.0 Soil S13-JI09143 Jul 10, 2013	TP10-0.2 Soil S13-JI09144 Jul 10, 2013	TP11-0.0 Soil S13-JI09146 Jul 10, 2013	TP11-0.5 Soil S13-JI09147 Jul 10, 2013
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromo-3-chloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	5	mg/kg	-	-	< 5	-
2-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
2-Hexanone (MBK)	5	mg/kg	-	-	< 5	-
2-Pentanone	5	mg/kg	-	-	< 5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	5	mg/kg	-	-	< 5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP10-0.0 Soil S13-JI09143 Jul 10, 2013	TP10-0.2 Soil S13-JI09144 Jul 10, 2013	TP11-0.0 Soil S13-JI09146 Jul 10, 2013	TP11-0.5 Soil S13-JI09147 Jul 10, 2013
Volatile Organic Compounds (VOC)						
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
n-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
n-Propylbenzene	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
p-Isopropyltoluene	0.5	mg/kg	-	-	< 0.5	-
sec-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
tert-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl acetate	5	mg/kg	-	-	< 5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Toluene-d8 (surr.)	1	%	-	-	94	-
4-Bromofluorobenzene (surr.)	1	%	-	-	116	-
1.2-Dichloroethane-d4 (surr.)	1	%	-	-	95	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH	1	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	-	0.6	-	0.6
2-Fluorobiphenyl (surr.)	1	%	-	92	-	109
p-Terphenyl-d14 (surr.)	1	%	-	85	-	95
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchloredate (surr.)	1	%	-	104	-	106

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP10-0.0 Soil S13-JI09143 Jul 10, 2013	TP10-0.2 Soil S13-JI09144 Jul 10, 2013	TP11-0.0 Soil S13-JI09146 Jul 10, 2013	TP11-0.5 Soil S13-JI09147 Jul 10, 2013
Organochlorine Pesticides (OC)						
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDT	0.2	mg/kg	-	< 0.2	-	< 0.2
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
a-Chlordane	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
g-Chlordane	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Dibutylchloroendate (surr.)	1	%	-	104	-	106
Tetrachloro-m-xylene (surr.)	1	%	-	125	-	115
Heavy Metals						
Arsenic	2	mg/kg	-	6.3	-	2.7
Cadmium	0.4	mg/kg	-	0.6	-	0.5
Chromium	5	mg/kg	-	29	-	9.9
Copper	5	mg/kg	-	15	-	26
Lead	5	mg/kg	-	30	-	120
Mercury	0.05	mg/kg	-	1.1	-	0.44
Nickel	5	mg/kg	-	< 5	-	54
Zinc	5	mg/kg	-	62	-	150
% Moisture	0.1	%	-	27	23	20
Asbestos			see attached	-	-	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP11-1.0 Soil S13-JI09148 Jul 10, 2013	TP11-2.4 Soil S13-JI09149 Jul 10, 2013	TP12-0.0 Soil S13-JI09150 Jul 10, 2013	TP12-0.5 Soil S13-JI09151 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	56	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP11-1.0 Soil S13-JI09148 Jul 10, 2013	TP11-2.4 Soil S13-JI09149 Jul 10, 2013	TP12-0.0 Soil S13-JI09150 Jul 10, 2013	TP12-0.5 Soil S13-JI09151 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C29-C36	50	mg/kg	-	-	210	-
TRH C10-36 (Total)	50	mg/kg	-	-	270	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	200	-
TRH >C34-C40	100	mg/kg	-	-	260	-
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Butanone (MEK)	5	mg/kg	< 5	< 5	-	< 5
2-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Hexanone (MBK)	5	mg/kg	< 5	< 5	-	< 5
2-Pentanone	5	mg/kg	< 5	< 5	-	< 5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	< 5	-	< 5
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP11-1.0 Soil S13-JI09148 Jul 10, 2013	TP11-2.4 Soil S13-JI09149 Jul 10, 2013	TP12-0.0 Soil S13-JI09150 Jul 10, 2013	TP12-0.5 Soil S13-JI09151 Jul 10, 2013
Volatile Organic Compounds (VOC)						
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
n-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
n-Propylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
p-Isopropyltoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
sec-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
tert-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vinyl acetate	5	mg/kg	< 5	< 5	-	< 5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene-d8 (surr.)	1	%	87	87	-	92
4-Bromofluorobenzene (surr.)	1	%	117	115	-	112
1,2-Dichloroethane-d4 (surr.)	1	%	96	96	-	96
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH	1	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ	0.5	mg/kg	-	-	0.6	-
2-Fluorobiphenyl (surr.)	1	%	-	-	101	-
p-Terphenyl-d14 (surr.)	1	%	-	-	82	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	6.6	-
Cadmium	0.4	mg/kg	-	-	0.6	-
Chromium	5	mg/kg	-	-	22	-
Copper	5	mg/kg	-	-	39	-

Client Sample ID			TP11-1.0	TP11-2.4	TP12-0.0	TP12-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09148	S13-JI09149	S13-JI09150	S13-JI09151
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	-	140	-
Mercury	0.05	mg/kg	-	-	0.52	-
Nickel	5	mg/kg	-	-	5.9	-
Zinc	5	mg/kg	-	-	170	-
% Moisture	0.1	%	28	25	22	30

Client Sample ID			TP12-1.0	TP13-0.0	TP13-0.4	TP14-0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09152	S13-JI09153	S13-JI09154	S13-JI09155
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	5	mg/kg	< 5	< 5	< 5	< 5
2-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Hexanone (MBK)	5	mg/kg	< 5	< 5	< 5	< 5
2-Pentanone	5	mg/kg	< 5	< 5	< 5	< 5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	< 5	< 5	< 5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP12-1.0 Soil S13-JI09152 Jul 10, 2013	TP13-0.0 Soil S13-JI09153 Jul 10, 2013	TP13-0.4 Soil S13-JI09154 Jul 10, 2013	TP14-0.0 Soil S13-JI09155 Jul 10, 2013
Volatile Organic Compounds (VOC)						
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
p-Isopropyltoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl acetate	5	mg/kg	< 5	< 5	< 5	< 5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene-d8 (surr.)	1	%	93	97	98	90
4-Bromofluorobenzene (surr.)	1	%	109	105	112	113
1.2-Dichloroethane-d4 (surr.)	1	%	95	96	96	95
% Moisture	0.1	%	24	7.9	27	8.0

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP14-0.5 Soil S13-JI09156 Jul 10, 2013	TP15-0.0 Soil S13-JI09157 Jul 10, 2013	TP15-0.5 Soil S13-JI09158 Jul 10, 2013	TP16-0.0 Soil S13-JI09159 Jul 10, 2013
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP14-0.5 Soil S13-JI09156 Jul 10, 2013	TP15-0.0 Soil S13-JI09157 Jul 10, 2013	TP15-0.5 Soil S13-JI09158 Jul 10, 2013	TP16-0.0 Soil S13-JI09159 Jul 10, 2013
Volatile Organic Compounds (VOC)						
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Butanone (MEK)	5	mg/kg	< 5	< 5	< 5	-
2-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Hexanone (MBK)	5	mg/kg	< 5	< 5	< 5	-
2-Pentanone	5	mg/kg	< 5	< 5	< 5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	< 5	< 5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
n-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
n-Propylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
p-Isopropyltoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
sec-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
tert-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-

Client Sample ID			TP14-0.5	TP15-0.0	TP15-0.5	TP16-0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09156	S13-JI09157	S13-JI09158	S13-JI09159
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Volatile Organic Compounds (VOC)						
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vinyl acetate	5	mg/kg	< 5	< 5	< 5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene-d8 (surr.)	1	%	88	92	87	-
4-Bromofluorobenzene (surr.)	1	%	115	116	119	-
1.2-Dichloroethane-d4 (surr.)	1	%	94	99	97	-
% Moisture	0.1	%	26	19	23	-
Asbestos			-	-	-	see attached

Client Sample ID			TP16-0.5	TP18-0.0	TP18-BS-0.0	TP19-0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09160	S13-JI09164	S13-JI09165	S13-JI09167
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP16-0.5 Soil S13-JI09160 Jul 10, 2013	TP18-0.0 Soil S13-JI09164 Jul 10, 2013	TP18-BS-0.0 Soil S13-JI09165 Jul 10, 2013	TP19-0.0 Soil S13-JI09167 Jul 10, 2013
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH	1	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	0.6	0.6	-	0.6
2-Fluorobiphenyl (surr.)	1	%	108	105	-	106
p-Terphenyl-d14 (surr.)	1	%	95	89	-	94
Heavy Metals						
Arsenic	2	mg/kg	2.4	5.2	-	6.6
Cadmium	0.4	mg/kg	< 0.4	0.4	-	0.6
Chromium	5	mg/kg	23	15	-	10
Copper	5	mg/kg	5.1	46	-	200
Lead	5	mg/kg	8.2	26	-	180
Mercury	0.05	mg/kg	0.05	0.33	-	0.42
Nickel	5	mg/kg	< 5	10.0	-	16
Zinc	5	mg/kg	< 5	74	-	370
% Moisture	0.1	%	22	21	-	35
Asbestos			-	-	see attached	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP19-BS-0.0 Soil S13-JI09168 Jul 10, 2013	SS BS 0.0 Soil S13-JI09173 Jul 10, 2013	COMPOSITE 1 Soil S13-JI09177 Jul 10, 2013	QA01 Soil S13-JI09178 Jul 10, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP19-BS-0.0	SS BS 0.0	COMPOSITE 1	QA01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI09168	S13-JI09173	S13-JI09177	S13-JI09178
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH	1	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ	0.5	mg/kg	-	-	0.6	-
2-Fluorobiphenyl (surr.)	1	%	-	-	112	-
p-Terphenyl-d14 (surr.)	1	%	-	-	100	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	6.1	-
Cadmium	0.4	mg/kg	-	-	0.6	-
Chromium	5	mg/kg	-	-	16	-
Copper	5	mg/kg	-	-	42	-
Lead	5	mg/kg	-	-	150	-
Mercury	0.05	mg/kg	-	-	2.1	-
Nickel	5	mg/kg	-	-	5.2	-
Zinc	5	mg/kg	-	-	280	-
% Moisture	0.1	%	-	-	27	-
Asbestos			see attached	see attached	-	see attached

Client Sample ID			QA02	QA03
Sample Matrix			Soil	Soil
Eurofins mgt Sample No.			S13-JI09179	S13-JI09180
Date Sampled			Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50

Client Sample ID			QA02	QA03
Sample Matrix			Soil	Soil
Eurofins mgt Sample No.			S13-JI09179	S13-JI09180
Date Sampled			Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH	1	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ	0.5	mg/kg	0.6	0.6
2-Fluorobiphenyl (surr.)	1	%	111	110
p-Terphenyl-d14 (surr.)	1	%	103	97
Heavy Metals				
Arsenic	2	mg/kg	6.1	5.3
Cadmium	0.4	mg/kg	0.9	< 0.4
Chromium	5	mg/kg	22	23
Copper	5	mg/kg	75	6.7
Lead	5	mg/kg	130	7.5
Mercury	0.05	mg/kg	0.41	< 0.05
Nickel	5	mg/kg	12	< 5
Zinc	5	mg/kg	270	< 5
% Moisture	0.1	%	28	25
Asbestos			-	see attached

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: E004 Petroleum Hydrocarbons (TPH)	Sydney	Jul 12, 2013	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LM-LTM-ORG2010	Sydney	Jul 12, 2013	14 Day
Volatile Organic Compounds (VOC) - Method: E016 Volatile Organic Compounds (VOC)	Sydney	Jul 12, 2013	7 Day
Polycyclic Aromatic Hydrocarbons - Method: E007 Polyaromatic Hydrocarbons (PAH)	Sydney	Jul 12, 2013	14 Day
Polychlorinated Biphenyls (PCB) - Method: E013 Polychlorinated Biphenyls (PCB)	Sydney	Jul 12, 2013	28 Day
Organochlorine Pesticides (OC) - Method: E013 Organochlorine Pesticides (OC)	Sydney	Jul 12, 2013	14 Day
Metals M8 - Method: E022 Acid Extractable metals in Soils & E026 Mercury	Sydney	Jul 12, 2013	28 Day
% Moisture - Method: E005 Moisture Content	Sydney	Jul 12, 2013	28 Day

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000
Client Job No.: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 385760
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 12, 2013 10:51 AM
Due: Jul 15, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
TP01-0.0	Jul 10, 2013		Soil	S13-JI09102				X						
TP01-0.2	Jul 10, 2013		Soil	S13-JI09103		X								
TP01-0.5	Jul 10, 2013		Soil	S13-JI09104				X						
TP01-1.0	Jul 10, 2013		Soil	S13-JI09105				X						
TP02-0.0	Jul 10, 2013		Soil	S13-JI09106				X						
TP02-0.2	Jul 10, 2013		Soil	S13-JI09107	X				X	X			X	
TP02-0.5	Jul 10, 2013		Soil	S13-JI09108	X						X	X		
TP02-1.0	Jul 10, 2013		Soil	S13-JI09109		X								
TP02-1.5	Jul 10, 2013		Soil	S13-JI09110		X								
TP03-0.0	Jul 10, 2013		Soil	S13-JI09111				X						

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Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP03-0.2	Jul 10, 2013		Soil	S13-JI09112	X	X			X	X			X	
TP03-0.5	Jul 10, 2013		Soil	S13-JI09113				X						
TP03-1.0	Jul 10, 2013		Soil	S13-JI09114				X						
TP04-0.0	Jul 10, 2013		Soil	S13-JI09115			X							
TP04-0.2	Jul 10, 2013		Soil	S13-JI09116				X						
TP04-0.5	Jul 10, 2013		Soil	S13-JI09117	X				X	X			X	
TP04-1.0	Jul 10, 2013		Soil	S13-JI09118		X								
TP04-BS-1.0	Jul 10, 2013		Soil	S13-JI09119				X						
TP04-1.8	Jul 10, 2013		Soil	S13-JI09120				X						
TP04-BS-0.2	Jul 10, 2013		Soil	S13-JI09121		X								
TP05-0.0	Jul 10, 2013		Soil	S13-JI09122		X								

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Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP05-0.2	Jul 10, 2013		Soil	S13-JI09123	X				X	X	X	X	X	
TP05-0.5	Jul 10, 2013		Soil	S13-JI09124				X						
TP05-1.0	Jul 10, 2013		Soil	S13-JI09125				X						
TP05-1.8	Jul 10, 2013		Soil	S13-JI09126	X				X	X			X	
TP05-BS-1.8	Jul 10, 2013		Soil	S13-JI09127		X								
TP05-2.0	Jul 10, 2013		Soil	S13-JI09128		X								
TP06-0.0	Jul 10, 2013		Soil	S13-JI09129				X						
TP06-0.2	Jul 10, 2013		Soil	S13-JI09130	X	X			X	X			X	
TP06-0.5	Jul 10, 2013		Soil	S13-JI09131	X				X	X			X	
TP07-0.0	Jul 10, 2013		Soil	S13-JI09132				X						
TP07-0.2	Jul 10, 2013		Soil	S13-JI09133	X						X	X		

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000
Client Job No.: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 385760
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 12, 2013 10:51 AM
Due: Jul 15, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Polychlorinated Biphenyls (PCB)	Organochlorine Pesticides (OC)	Total Recoverable Hydrocarbons	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP07-0.5	Jul 10, 2013		Soil	S13-JI09134		X								
TP07-1.0	Jul 10, 2013		Soil	S13-JI09135	X				X	X			X	
TP07-1.2	Jul 10, 2013		Soil	S13-JI09136				X						
TP08-0.0	Jul 10, 2013		Soil	S13-JI09137				X						
TP08-0.2	Jul 10, 2013		Soil	S13-JI09138	X	X			X	X			X	
TP09-0.0	Jul 10, 2013		Soil	S13-JI09139				X						
TP09-0.2	Jul 10, 2013		Soil	S13-JI09140				X						
TP09-0.5	Jul 10, 2013		Soil	S13-JI09141				X						
TP09-0.7	Jul 10, 2013		Soil	S13-JI09142				X						
TP10-0.0	Jul 10, 2013		Soil	S13-JI09143		X								
TP10-0.2	Jul 10, 2013		Soil	S13-JI09144	X				X	X	X	X	X	

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP10-0.5	Jul 10, 2013		Soil	S13-JI09145				X						
TP11-0.0	Jul 10, 2013		Soil	S13-JI09146	X									X
TP11-0.5	Jul 10, 2013		Soil	S13-JI09147	X				X	X	X	X	X	
TP11-1.0	Jul 10, 2013		Soil	S13-JI09148	X									X
TP11-2.4	Jul 10, 2013		Soil	S13-JI09149	X									X
TP12-0.0	Jul 10, 2013		Soil	S13-JI09150	X				X	X			X	
TP12-0.5	Jul 10, 2013		Soil	S13-JI09151	X									X
TP12-1.0	Jul 10, 2013		Soil	S13-JI09152	X									X
TP13-0.0	Jul 10, 2013		Soil	S13-JI09153	X									X
TP13-0.4	Jul 10, 2013		Soil	S13-JI09154	X									X
TP14-0.0	Jul 10, 2013		Soil	S13-JI09155	X									X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP14-0.5	Jul 10, 2013		Soil	S13-JI09156	X									X
TP15-0.0	Jul 10, 2013		Soil	S13-JI09157	X									X
TP15-0.5	Jul 10, 2013		Soil	S13-JI09158	X									X
TP16-0.0	Jul 10, 2013		Soil	S13-JI09159		X								
TP16-0.5	Jul 10, 2013		Soil	S13-JI09160	X				X	X			X	
TP16-BS-0.3	Jul 10, 2013		Soil	S13-JI09161				X						
TP17-0.0	Jul 10, 2013		Soil	S13-JI09162				X						
TP17-0.3	Jul 10, 2013		Soil	S13-JI09163				X						
TP18-0.0	Jul 10, 2013		Soil	S13-JI09164	X				X	X			X	
TP18-BS-0.0	Jul 10, 2013		Soil	S13-JI09165		X								
TP18-0.4	Jul 10, 2013		Soil	S13-JI09166				X						

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
TP19-0.0	Jul 10, 2013		Soil	S13-JI09167	X				X	X			X	
TP19-BS-0.0	Jul 10, 2013		Soil	S13-JI09168		X								
TP19-0.5	Jul 10, 2013		Soil	S13-JI09169				X						
TP20-0.0	Jul 10, 2013		Soil	S13-JI09170				X						
TP20-0.3	Jul 10, 2013		Soil	S13-JI09171				X						
TP15-0.5	Jul 10, 2013		Soil	S13-JI09172			X							
SS BS 0.0	Jul 10, 2013		Soil	S13-JI09173		X								
SP1	Jul 10, 2013		Soil	S13-JI09174				X						
SP2	Jul 10, 2013		Soil	S13-JI09175				X						
SP3	Jul 10, 2013		Soil	S13-JI09176				X						
COMPOSITE 1	Jul 10, 2013		Soil	S13-JI09177	X				X	X			X	

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory						X								
QA01	Jul 10, 2013		Soil	S13-JI09178		X								
QA02	Jul 10, 2013		Soil	S13-JI09179	X				X	X			X	
QA03	Jul 10, 2013		Soil	S13-JI09180	X	X			X	X			X	
QA04	Jul 10, 2013		Soil	S13-JI09181				X						
QA05	Jul 10, 2013		Soil	S13-JI09182				X						
QA06	Jul 10, 2013		Soil	S13-JI09183				X						
SS	Jul 10, 2013		Soil	S13-JI09184			X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 5			5	Pass	
2-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
2-Hexanone (MBK)	mg/kg	< 5			5	Pass	
2-Pentanone	mg/kg	< 5			5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 5			5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
n-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
n-Propylbenzene	mg/kg	< 0.5			0.5	Pass	
p-Isopropyltoluene	mg/kg	< 0.5			0.5	Pass	
sec-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
tert-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl acetate	mg/kg	< 5			5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB) E013 Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides (OC) E013 Organochlorine Pesticides (OC)							
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.2			0.2	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
a-Chlordane	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
g-Chlordane	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	83			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	93			70-130	Pass	
TRH C6-C10	%	119			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	%	114			75-125	Pass	
1.1-Dichloroethene	%	113			70-130	Pass	
1.1.1-Trichloroethane	%	113			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	113			70-130	Pass	
1.1.2-Trichloroethane	%	107			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	101			70-130	Pass	
1.2-Dibromoethane	%	105			70-130	Pass	
1.2-Dichlorobenzene	%	96			70-130	Pass	
1.2-Dichloroethane	%	112			70-130	Pass	
1.2-Dichloropropane	%	107			70-130	Pass	
1.2.3-Trichloropropane	%	98			70-130	Pass	
1.2.4-Trichlorobenzene	%	95			70-130	Pass	
1.2.4-Trimethylbenzene	%	86			70-130	Pass	
1.3-Dichlorobenzene	%	86			70-130	Pass	
1.3-Dichloropropane	%	109			70-130	Pass	
1.3.5-Trimethylbenzene	%	85			70-130	Pass	
1.4-Dichlorobenzene	%	96			70-130	Pass	
2-Butanone (MEK)	%	106			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Chlorotoluene	%	84			70-130	Pass	
2-Hexanone (MBK)	%	105			70-130	Pass	
2-Pentanone	%	104			70-130	Pass	
4-Chlorotoluene	%	85			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	113			70-130	Pass	
Bromobenzene	%	88			70-130	Pass	
Bromodichloromethane	%	109			70-130	Pass	
Bromoform	%	111			70-130	Pass	
Bromomethane	%	70			70-130	Pass	
Carbon disulfide	%	112			70-130	Pass	
Carbon Tetrachloride	%	112			70-130	Pass	
Chlorobenzene	%	105			70-130	Pass	
Chloroethane	%	107			70-130	Pass	
Chloroform	%	105			70-130	Pass	
Chloromethane	%	113			70-130	Pass	
cis-1.2-Dichloroethene	%	112			70-130	Pass	
cis-1.3-Dichloropropene	%	107			70-130	Pass	
Dibromochloromethane	%	109			70-130	Pass	
Dichlorodifluoromethane	%	114			70-130	Pass	
Hexachlorobutadiene	%	88			70-130	Pass	
Isopropyl benzene (Cumene)	%	106			70-130	Pass	
Methylene Chloride	%	112			70-130	Pass	
n-Butylbenzene	%	86			70-130	Pass	
n-Propylbenzene	%	86			70-130	Pass	
p-Isopropyltoluene	%	86			70-130	Pass	
sec-Butylbenzene	%	85			70-130	Pass	
Styrene	%	108			70-130	Pass	
tert-Butylbenzene	%	86			70-130	Pass	
Tetrachloroethene	%	111			70-130	Pass	
trans-1.2-Dichloroethene	%	113			70-130	Pass	
trans-1.3-Dichloropropene	%	107			70-130	Pass	
Trichloroethene	%	107			70-130	Pass	
Trichlorofluoromethane	%	113			70-130	Pass	
Vinyl acetate	%	98			70-130	Pass	
Vinyl chloride	%	110			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	120			70-130	Pass	
Acenaphthylene	%	112			70-130	Pass	
Anthracene	%	121			70-130	Pass	
Benz(a)anthracene	%	101			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g,h,i)perylene	%	102			70-130	Pass	
Benzo(k)fluoranthene	%	126			70-130	Pass	
Chrysene	%	119			70-130	Pass	
Dibenz(a,h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	110			70-130	Pass	
Fluorene	%	118			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	100			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	120			70-130	Pass	
Pyrene	%	115			70-130	Pass	
LCS - % Recovery							

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Polychlorinated Biphenyls (PCB) E013 Polychlorinated Biphenyls (PCB)								
Aroclor-1260			%	93		70-130	Pass	
LCS - % Recovery								
Organochlorine Pesticides (OC) E013 Organochlorine Pesticides (OC)								
4,4'-DDD			%	95		70-130	Pass	
4,4'-DDE			%	92		70-130	Pass	
4,4'-DDT			%	96		70-130	Pass	
a-BHC			%	92		70-130	Pass	
a-Chlordane			%	93		70-130	Pass	
Aldrin			%	95		70-130	Pass	
b-BHC			%	91		70-130	Pass	
d-BHC			%	86		70-130	Pass	
Dieldrin			%	96		70-130	Pass	
Endosulfan I			%	97		70-130	Pass	
Endosulfan II			%	92		70-130	Pass	
Endosulfan sulphate			%	96		70-130	Pass	
Endrin			%	96		70-130	Pass	
Endrin aldehyde			%	81		70-130	Pass	
Endrin ketone			%	89		70-130	Pass	
g-BHC (Lindane)			%	92		70-130	Pass	
g-Chlordane			%	93		70-130	Pass	
Heptachlor			%	97		70-130	Pass	
Heptachlor epoxide			%	98		70-130	Pass	
Hexachlorobenzene			%	93		70-130	Pass	
Methoxychlor			%	87		70-130	Pass	
LCS - % Recovery								
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury								
Arsenic			%	75		70-130	Pass	
Cadmium			%	75		70-130	Pass	
Chromium			%	82		70-130	Pass	
Copper			%	98		70-130	Pass	
Lead			%	77		70-130	Pass	
Mercury			%	89		70-130	Pass	
Nickel			%	84		70-130	Pass	
Zinc			%	72		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S13-JI09107	CP	%	120		70-130	Pass	
TRH C10-C14	S13-JI09107	CP	%	84		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S13-JI09107	CP	%	105		70-130	Pass	
TRH C6-C10	S13-JI09107	CP	%	124		70-130	Pass	
TRH >C10-C16	S13-JI09107	CP	%	89		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S13-JI09107	CP	%	119		70-130	Pass	
Acenaphthylene	S13-JI09107	CP	%	107		70-130	Pass	
Anthracene	S13-JI09107	CP	%	118		70-130	Pass	
Benz(a)anthracene	S13-JI09107	CP	%	105		70-130	Pass	
Benzo(a)pyrene	S13-JI09107	CP	%	101		70-130	Pass	
Benzo(b&j)fluoranthene	S13-JI09107	CP	%	87		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g,h,i)perylene	S13-JI09107	CP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S13-JI09107	CP	%	121			70-130	Pass	
Chrysene	S13-JI09107	CP	%	118			70-130	Pass	
Dibenz(a,h)anthracene	S13-JI09107	CP	%	97			70-130	Pass	
Fluoranthene	S13-JI09107	CP	%	108			70-130	Pass	
Fluorene	S13-JI09107	CP	%	115			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-JI09107	CP	%	100			70-130	Pass	
Naphthalene	S13-JI09107	CP	%	121			70-130	Pass	
Phenanthrene	S13-JI09107	CP	%	116			70-130	Pass	
Pyrene	S13-JI09107	CP	%	111			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-JI09107	CP	%	76			70-130	Pass	
Chromium	S13-JI07376	NCP	%	114			70-130	Pass	
Copper	S13-JI09107	CP	%	102			70-130	Pass	
Lead	S13-JI07376	NCP	%	89			70-130	Pass	
Mercury	S13-JI09107	CP	%	81			70-130	Pass	
Nickel	S13-JI09107	CP	%	70			70-130	Pass	
Zinc	S13-JI07376	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S13-JI09138	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S13-JI09138	CP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-JI09138	CP	%	108			70-130	Pass	
Acenaphthylene	S13-JI09138	CP	%	96			70-130	Pass	
Anthracene	S13-JI09138	CP	%	107			70-130	Pass	
Benz(a)anthracene	S13-JI09138	CP	%	100			70-130	Pass	
Benzo(a)pyrene	S13-JI09138	CP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S13-JI09138	CP	%	105			70-130	Pass	
Benzo(g,h,i)perylene	S13-JI09138	CP	%	85			70-130	Pass	
Benzo(k)fluoranthene	S13-JI09138	CP	%	109			70-130	Pass	
Chrysene	S13-JI09138	CP	%	104			70-130	Pass	
Dibenz(a,h)anthracene	S13-JI09138	CP	%	83			70-130	Pass	
Fluoranthene	S13-JI09138	CP	%	98			70-130	Pass	
Fluorene	S13-JI09138	CP	%	104			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-JI09138	CP	%	84			70-130	Pass	
Naphthalene	S13-JI09138	CP	%	106			70-130	Pass	
Phenanthrene	S13-JI09138	CP	%	105			70-130	Pass	
Pyrene	S13-JI09138	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-JI09147	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-JI09147	CP	%	83			70-130	Pass	
TRH C6-C10	S13-JI09147	CP	%	111			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-JI09147	CP	%	118			70-130	Pass	
Cadmium	S13-JI09147	CP	%	97			70-130	Pass	
Mercury	S13-JI09147	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Volatile Organic Compounds (VOC)				Result 1					
Naphthalene	S13-JI09158	CP	%	95			70-130	Pass	
Spike - % Recovery									
Volatile Organic Compounds (VOC)				Result 1					
1.1-Dichloroethane	S13-JI09158	CP	%	98			75-125	Pass	
1.1-Dichloroethene	S13-JI09158	CP	%	97			70-130	Pass	
1.1.1-Trichloroethane	S13-JI09158	CP	%	98			70-130	Pass	
1.1.1.2-Tetrachloroethane	S13-JI09158	CP	%	87			70-130	Pass	
1.1.2-Trichloroethane	S13-JI09158	CP	%	81			70-130	Pass	
1.2-Dibromo-3-chloropropane	S13-JI09158	CP	%	89			70-130	Pass	
1.2-Dibromoethane	S13-JI09158	CP	%	78			70-130	Pass	
1.2-Dichlorobenzene	S13-JI09158	CP	%	95			70-130	Pass	
1.2-Dichloroethane	S13-JI09158	CP	%	86			70-130	Pass	
1.2-Dichloropropane	S13-JI09158	CP	%	81			70-130	Pass	
1.2.3-Trichloropropane	S13-JI09158	CP	%	95			70-130	Pass	
1.2.4-Trichlorobenzene	S13-JI09158	CP	%	96			70-130	Pass	
1.2.4-Trimethylbenzene	S13-JI09158	CP	%	81			70-130	Pass	
1.3-Dichlorobenzene	S13-JI09158	CP	%	81			70-130	Pass	
1.3-Dichloropropane	S13-JI09158	CP	%	82			70-130	Pass	
1.3.5-Trimethylbenzene	S13-JI09158	CP	%	82			70-130	Pass	
1.4-Dichlorobenzene	S13-JI09158	CP	%	91			70-130	Pass	
2-Butanone (MEK)	S13-JI09158	CP	%	94			70-130	Pass	
2-Chlorotoluene	S13-JI09158	CP	%	79			70-130	Pass	
2-Hexanone (MBK)	S13-JI09158	CP	%	82			70-130	Pass	
2-Pentanone	S13-JI09158	CP	%	85			70-130	Pass	
4-Chlorotoluene	S13-JI09158	CP	%	81			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S13-JI09158	CP	%	86			70-130	Pass	
Benzene	S13-JI09158	CP	%	80			70-130	Pass	
Bromobenzene	S13-JI09158	CP	%	81			70-130	Pass	
Bromodichloromethane	S13-JI09158	CP	%	83			70-130	Pass	
Bromoform	S13-JI09158	CP	%	85			70-130	Pass	
Bromomethane	S13-JI09158	CP	%	97			70-130	Pass	
Carbon disulfide	S13-JI09158	CP	%	92			70-130	Pass	
Carbon Tetrachloride	S13-JI09158	CP	%	97			70-130	Pass	
Chlorobenzene	S13-JI09158	CP	%	81			70-130	Pass	
Chloroethane	S13-JI09158	CP	%	90			70-130	Pass	
Chloroform	S13-JI09158	CP	%	94			70-130	Pass	
Chloromethane	S13-JI09158	CP	%	94			70-130	Pass	
cis-1.2-Dichloroethene	S13-JI09158	CP	%	97			70-130	Pass	
cis-1.3-Dichloropropene	S13-JI09158	CP	%	73			70-130	Pass	
Dibromochloromethane	S13-JI09158	CP	%	80			70-130	Pass	
Dichlorodifluoromethane	S13-JI09158	CP	%	87			70-130	Pass	
Ethylbenzene	S13-JI09158	CP	%	81			70-130	Pass	
Hexachlorobutadiene	S13-JI09158	CP	%	90			70-130	Pass	
Isopropyl benzene (Cumene)	S13-JI09158	CP	%	86			70-130	Pass	
m&p-Xylenes	S13-JI09158	CP	%	82			70-130	Pass	
Methylene Chloride	S13-JI09158	CP	%	99			70-130	Pass	
n-Butylbenzene	S13-JI09158	CP	%	83			70-130	Pass	
n-Propylbenzene	S13-JI09158	CP	%	81			70-130	Pass	
o-Xylene	S13-JI09158	CP	%	84			70-130	Pass	
p-Isopropyltoluene	S13-JI09158	CP	%	83			70-130	Pass	
sec-Butylbenzene	S13-JI09158	CP	%	82			70-130	Pass	
Styrene	S13-JI09158	CP	%	85			70-130	Pass	
tert-Butylbenzene	S13-JI09158	CP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tetrachloroethene	S13-JI09158	CP	%	80			70-130	Pass	
Toluene	S13-JI09158	CP	%	79			70-130	Pass	
trans-1,2-Dichloroethene	S13-JI09158	CP	%	97			70-130	Pass	
trans-1,3-Dichloropropene	S13-JI09158	CP	%	73			70-130	Pass	
Trichloroethene	S13-JI09158	CP	%	82			70-130	Pass	
Trichlorofluoromethane	S13-JI09158	CP	%	98			70-130	Pass	
Vinyl acetate	S13-JI09158	CP	%	75			70-130	Pass	
Vinyl chloride	S13-JI09158	CP	%	91			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-JI09107	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-JI09107	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-JI09107	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-JI09107	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-JI09107	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-JI09107	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-JI09107	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-JI09107	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-JI09107	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-JI09107	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-JI09107	CP	mg/kg	3.5	4.2	18	30%	Pass	
Cadmium	S13-JI09107	CP	mg/kg	0.8	< 0.4	81	30%	Fail	Q15
Chromium	S13-JI09107	CP	mg/kg	26	20	26	30%	Pass	
Copper	S13-JI09107	CP	mg/kg	32	29	12	30%	Pass	
Lead	S13-JI09107	CP	mg/kg	140	98	34	30%	Fail	Q15
Mercury	S13-JI09107	CP	mg/kg	0.54	0.46	15	30%	Pass	
Nickel	S13-JI09107	CP	mg/kg	9.9	8.1	20	30%	Pass	
Zinc	S13-JI09107	CP	mg/kg	140	120	10	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S13-JI09138	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C15-C28	S13-JI09138	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S13-JI09138	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S13-JI09138	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S13-JI09138	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S13-JI09138	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S13-JI09138	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S13-JI09147	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S13-JI09147	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S13-JI09147	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10 less BTEX (F1)	S13-JI09147	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S13-JI09147	CP	mg/kg	2.7	< 2	72	30%	Fail
Cadmium	S13-JI09147	CP	mg/kg	0.5	0.5	18	30%	Pass
Chromium	S13-JI09147	CP	mg/kg	9.9	8.3	17	30%	Pass
Copper	S13-JI09147	CP	mg/kg	26	27	5.0	30%	Pass
Nickel	S13-JI09147	CP	mg/kg	54	60	10	30%	Pass
Zinc	S13-JI09147	CP	mg/kg	150	170	12	30%	Pass
Duplicate								
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD		
Naphthalene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD		
1,1-Dichloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromo-3-chloropropane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD		
1.2-Dichloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S13-JI09158	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Chlorotoluene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Hexanone (MBK)	S13-JI09158	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Pentanone	S13-JI09158	CP	mg/kg	< 5	< 5	<1	30%	Pass
4-Chlorotoluene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S13-JI09158	CP	mg/kg	< 5	< 5	<1	30%	Pass
Benzene	S13-JI09158	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S13-JI09158	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Hexachlorobutadiene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	S13-JI09158	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
n-Butylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
n-Propylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	S13-JI09158	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
p-Isopropyltoluene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
sec-Butylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
tert-Butylbenzene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S13-JI09158	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl acetate	S13-JI09158	CP	mg/kg	< 5	< 5	<1	30%	Pass
Vinyl chloride	S13-JI09158	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Asbestos analysed by: ASET, NATA Accreditation no.14484, report reference ASET34148/37328/1-20

Sample Integrity

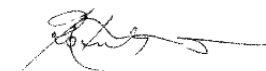
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

#386044

Please log in TCLP Pb on 48hrs.

Thanks

Jean Heng
Client Manager | NSW

Website: <http://www.eurofins.com.au>

-----Original Message-----

From: Amylia Fletcher [mailto:Amylia.Fletcher@ghd.com]

Sent: Tuesday, July 16, 2013 11:27 AM

To: Jean Heng

Cc: Matthew Clutterham

Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY
HOSPITAL 2216893

Hi,

Can we please order TCLP analyses on the following 5 samples.

1. COMPOSITE 1 (S13-JI09177)
2. TP05-1.8 (S13-JI09126)
3. TP04-0.5 (S13-JI09117)
4. TP19-0.0 (S13-JI09167)
5. TP02-0.2 (S13-JI09107)

We will need turnaround ASAP please.

Thankyou, Amylia.

Sample Receipt Advice

Company name: **GHD Pty Ltd NSW**
Contact name: Amylia Fletcher
Client job number: **ADDITIONAL:KEMPSEY HOSPITAL 2216893**
COC number: Not provided
Turn around time: 2 Day
Date/Time received: Jul 16, 2013 11:32 AM
Eurofins | mgt reference: **386044**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 4 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Additional from report #385760

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Amylia Fletcher - amyli.fletcher@ghd.com.

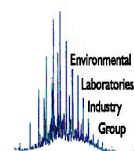
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Client Job No.: ADDITIONAL: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 386044
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 16, 2013 11:32 AM
Due: Jul 18, 2013
Priority: 2 Day
Contact Name: Amylia Fletcher

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted							
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217					X	X	X
Brisbane Laboratory - NATA Site # 20794							
External Laboratory							
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
COMPOSITE 1	Jul 15, 2013		TCLP	S13-JI11145	X	X	X
TP05-1.8	Jul 15, 2013		TCLP	S13-JI11146	X	X	X
TP04-0.5	Jul 15, 2013		TCLP	S13-JI11147	X	X	X
TP19-0.0	Jul 15, 2013		TCLP	S13-JI11148	X	X	X
TP02-0.2	Jul 15, 2013		TCLP	S13-JI11149	X	X	X

GHD Pty Ltd NSW
Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Attention: Amylia Fletcher

Report **386044-L**
Client Reference ADDITIONAL: KEMPSEY HOSPITAL 2216893
Received Date Jul 16, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			COMPOSITE 1	TP05-1.8	TP04-0.5	TP19-0.0
Sample Matrix			TCLP	TCLP	TCLP	TCLP
Eurofins mgt Sample No.			S13-JI11145	S13-JI11146	S13-JI11147	S13-JI11148
Date Sampled			Jul 15, 2013	Jul 15, 2013	Jul 15, 2013	Jul 15, 2013
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	0.01	mg/L	0.04	0.02	0.03	< 0.01
% Moisture	0.1	%	26	25	26	38
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.9	1.8
pH (TCLP - initial)	0.1	units	8.0	8.6	8.3	8.7
pH (TCLP - off)	0.1	units	4.9	5.6	5.4	6.1

Client Sample ID			TP02-0.2
Sample Matrix			TCLP
Eurofins mgt Sample No.			S13-JI11149
Date Sampled			Jul 15, 2013
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	0.01	mg/L	0.03
% Moisture	0.1	%	23
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid ^{C01}		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.8
pH (TCLP - initial)	0.1	units	8.3
pH (TCLP - off)	0.1	units	4.9

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Heavy Metals - Method: E022 Acid Extractable metals in Soils	Sydney	Jul 16, 2013	180 Day
% Moisture - Method: E005 Moisture Content	Sydney	Jul 16, 2013	0 Day
Toxicity Characteristic Leaching Procedure (TCLP) - Method: E019 TCLP Preparation	Sydney	Jul 16, 2013	0 Day

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Client Job No.: ADDITIONAL: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 386044
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 16, 2013 11:32 AM
Due: Jul 18, 2013
Priority: 2 Day
Contact Name: Amylia Fletcher

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted							
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217					X	X	X
Brisbane Laboratory - NATA Site # 20794							
External Laboratory							
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
COMPOSITE 1	Jul 15, 2013		TCLP	S13-JI11145	X	X	X
TP05-1.8	Jul 15, 2013		TCLP	S13-JI11146	X	X	X
TP04-0.5	Jul 15, 2013		TCLP	S13-JI11147	X	X	X
TP19-0.0	Jul 15, 2013		TCLP	S13-JI11148	X	X	X
TP02-0.2	Jul 15, 2013		TCLP	S13-JI11149	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals E022 Acid Extractable metals in Soils										
Lead				mg/L	< 0.01			0.01	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals					Result 1					
Lead	S13-JI11149	CP	%	97				70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals					Result 1	Result 2	RPD			
Lead	S13-JI11148	CP	mg/L	< 0.01	< 0.01	<1		30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

URGENT

#386175

Seaf/d

-----Original Message-----

From: Amylia Fletcher [mailto:Amylia.Fletcher@ghd.com]
Sent: Wednesday, 17 July 2013 10:06 AM
To: Jean Heng
Cc: Enviro Syd
Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

Further to the previous email. Can you please do a 24hr turnaround on that request.

-----Original Message-----

From: Amylia Fletcher
Sent: Wednesday, 17 July 2013 10:03 AM
To: 'JeanHeng@eurofins.com.au'
Cc: 'Enviro.Syd@mgtlabmark.com.au'
Subject: FW: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

Hi,

Are you able to run some additional analyses on TP05-1.8 (S13-J109126). We'd like you take 3 sub-samples from the above and run Pb analyses on them. The initial report returned a result of 2600mg/kg and we'd like to confirm this wasn't just a hotspot.

Thanks, Amylia

-----Original Message-----

From: Amylia Fletcher
Sent: Tuesday, 16 July 2013 11:27 AM
To: 'JeanHeng@eurofins.com.au'
Cc: Matthew Clutterham
Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

Sample Receipt Advice

Company name: **GHD Pty Ltd NSW**
Contact name: **Matt Clutterham**
Client job number: **ADDITIONAL: KEMPSEY HOSPITAL 2216893**
COC number: **Not provided**
Turn around time: **1 Day**
Date/Time received: **Jul 17, 2013 10:06 AM**
Eurofins | mgt reference: **386175**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 18 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Additional from report 385760

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Matt Clutterham - matthew.clutterham@ghd.com.

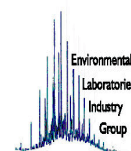
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Client Job No.: ADDITIONAL: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 386175
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 17, 2013 10:06 AM
Due: Jul 18, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
TP05-1.8-1	Jul 10, 2013		Soil	S13-JI12066	X	X
TP05-1.8-2	Jul 10, 2013		Soil	S13-JI12067	X	X
TP05-1.8-3	Jul 10, 2013		Soil	S13-JI12068	X	X

GHD Pty Ltd NSW
Level 15, 133 Castlereagh Street
Sydney
NSW 2000

Attention: **Matt Clutterham**

Report **386175-S**
Client Reference **ADDITIONAL: KEMPSEY HOSPITAL 2216893**
Received Date **Jul 17, 2013**



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			TP05-1.8-1	TP05-1.8-2	TP05-1.8-3
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S13-JI12066	S13-JI12067	S13-JI12068
Date Sampled			Jul 10, 2013	Jul 10, 2013	Jul 10, 2013
Test/Reference	LOR	Unit			
Heavy Metals					
Lead	5	mg/kg	170	150	140
% Moisture	0.1	%	24	22	23

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Heavy Metals - Method: E022 Acid Extractable metals in Soils	Sydney	Jul 17, 2013	180 Day
% Moisture - Method: E005 Moisture Content	Sydney	Jul 17, 2013	28 Day

Company Name: GHD Pty Ltd NSW
Address: Level 15, 133 Castlereagh Street
Sydney
NSW 2000
Client Job No.: ADDITIONAL: KEMPSEY HOSPITAL 2216893

Order No.:
Report #: 386175
Phone: 02 9239 7100
Fax: 02 9239 7199

Received: Jul 17, 2013 10:06 AM
Due: Jul 18, 2013
Priority: 1 Day
Contact Name: Matt Clutterham

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
TP05-1.8-1	Jul 10, 2013		Soil	S13-JI12066	X	X
TP05-1.8-2	Jul 10, 2013		Soil	S13-JI12067	X	X
TP05-1.8-3	Jul 10, 2013		Soil	S13-JI12068	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals E022 Acid Extractable metals in Soils										
Lead				mg/kg	< 5			5	Pass	
LCS - % Recovery										
Heavy Metals E022 Acid Extractable metals in Soils										
Lead				%	88			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals					Result 1					
Lead	S13-JI12070	NCP	%	93				70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals					Result 1	Result 2	RPD			
Lead	S13-JI12070	NCP	mg/kg	9.7	14	35	30%	Fail		Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes Eurofins mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Sample Receipt Advice

Company name: **GHD Pty Ltd NSW**
Contact name: **Matt Clutterham**
Client job number: **ADDITIONAL: KEMPSEY HOSPITAL 2216893**
COC number: **Not provided**
Turn around time: **1 Day**
Date/Time received: **Jul 17, 2013 10:06 AM**
Eurofins | mgt reference: **386175**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 18 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Additional from report 385760

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Matt Clutterham - matthew.clutterham@ghd.com.

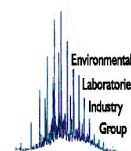
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Sample Receipt Advice

Company name: **GHD Pty Ltd NSW**
Contact name: Amylia Fletcher
Client job number: **ADDITIONAL:KEMPSEY HOSPITAL 2216893**
COC number: Not provided
Turn around time: 2 Day
Date/Time received: Jul 16, 2013 11:32 AM
Eurofins | mgt reference: **386044**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 4 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Additional from report #385760

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Amylia Fletcher - amyliam.fletcher@ghd.com.

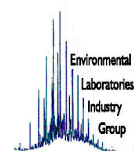
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



#386175
URGENT
Send

-----Original Message-----

From: Amylia Fletcher [mailto:Amylia.Fletcher@ghd.com]
Sent: Wednesday, 17 July 2013 10:06 AM
To: Jean Heng
Cc: Enviro Syd
Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

Further to the previous email. Can you please do a 24hr turnaround on that request.

-----Original Message-----

From: Amylia Fletcher
Sent: Wednesday, 17 July 2013 10:03 AM
To: 'JeanHeng@eurofins.com.au'
Cc: 'Enviro.Syd@mgtlabmark.com.au'
Subject: FW: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

Hi,

Are you able to run some additional analyses on TP05-1.8 (S13-J109126). We'd like you take 3 sub-samples from the above and run Pb analyses on them. The initial report returned a result of 2600mg/kg and we'd like to confirm this wasn't just a hotspot.

Thanks, Amylia

-----Original Message-----

From: Amylia Fletcher
Sent: Tuesday, 16 July 2013 11:27 AM
To: 'JeanHeng@eurofins.com.au'
Cc: Matthew Clutterham
Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY HOSPITAL 2216893

#386044

Please log in TCLP Pb on 48hrs.

Thanks

Jean Heng
Client Manager | NSW

Website: <http://www.eurofins.com.au>

-----Original Message-----

From: Amylia Fletcher [mailto:Amylia.Fletcher@ghd.com]

Sent: Tuesday, July 16, 2013 11:27 AM

To: Jean Heng

Cc: Matthew Clutterham

Subject: RE: Eurofins | mgt Test Results - Report 385760 : Site KEMPSEY
HOSPITAL 2216893

Hi,

Can we please order TCLP analyses on the following 5 samples.

1. COMPOSITE 1 (S13-JI09177)
2. TP05-1.8 (S13-JI09126)
3. TP04-0.5 (S13-JI09117)
4. TP19-0.0 (S13-JI09167)
5. TP02-0.2 (S13-JI09107)

We will need turnaround ASAP please.

Thankyou, Amylia.

385760

Amylia

From: Matthew Clutterham [mailto:Matthew.Clutterham@ghd.com]
Sent: Friday, July 12, 2013 10:51 AM
To: Bob Symons
Cc: Jean Heng; Amylia Fletcher
Subject: COC attached - Urgent samples from Kempsey

Hi Bob,

Please find attached the COC as discussed.

Could you also please send the results to afletcher@ghd.com

Thanks heaps

Matt

Matthew Clutterham
Principal Environmental Scientist – Contamination Assessment and Remediation
Client Relationship Manager

GHD

T: +61 2 9239 7036 | V: 217036 | M: 0422 983 914 | E: matthew.clutterham@ghd.com
Level 15 133 Castlereagh Street Sydney NSW 2000 Australia | www.ghd.com

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Please consider our environment before printing this email

From: 2216893
Sent: Friday, 12 July 2013 9:27 AM
To: 'Bob Symons'
Subject: FW: Urgent samples from Kempsey
Importance: High

Hi Bob,

Have you received samples for job number 2216893 this morning?

It is the urgent one please.

What time can you send samples to ASET?

Cheers

Matt

Matthew Clutterham
Principal Environmental Scientist – Contamination Assessment and Remediation
Client Relationship Manager



GHD Pty Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Fax: (02) 9239 7194

ABN 39 008 488 373

Phone No. 02 9239 7036

Address: Unit F6 Building F, 16 Mars Road

Date Required: 15/07/2013

Fax No. 02 9239 7195

Email:

Attention: Bob Symons

Date Submitted: 12/07/2010

Fax: 9420 2977

Phone: 8215 6222

Page 1 of 6

$$J_{ar} = TP01 - 0.3$$

RELINQUISHED BY					RECEIVED BY				
Name	Organization	Date	Time	Signature	Name	Organization	Date	Time	Signature
A. Fletcher	GHD	10/07/2013		<i>[Signature]</i>	Priscilla Ewing	Fire Inspector	12-7-13	1051	<i>[Signature]</i>
RELINQUISHED BY					RECEIVED BY				
Name	Organization	Date	Time	Signature	Name	Organization	Date	Time	Signature

It is the responsibility of the receiver to verify that the number of samples and their identifying sample numbers correspond to those listed on this form.

PLEASE EMAIL COMPLETED FORM TO GHD PROJECT MANAGER ON RECEIPT



PLEASE RETURN ALL DATA IN ESDAT FORMAT

CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

GHD Pty Ltd, Level 15, 133 Castlemaine Street, Sydney NSW 2000

Telephone: (02) 9239 7300

Fax: (02) 9239 7194

ABN 29 004 488 373

Project No. 2210093 Phone No. 02 9239 7030
Project Name Kingsley Hospital Fax No. 02 9239 7195
Project Manager Matthew Clutterbuck Email: mclutterbuck@ghd.com.au
Contact Name Amyla Fletcher

Sent to Lab: MGT Labmark
Address: Unit F6, Building F, 16 Mars Road
Lane Cove West, NSW, 2088
Fax: 9420 2977

Date Required: 18/07/2013
Attention: Bob Symons Date Submitted: 12/07/2013
Phone: 8215 6222 Page 2 of 6

SAMPLE ID	Date Sampled	No. of Containers	Container Type (Size)	MATRIX					PRESERVATION					ANALYSIS REQUIRED					COMMENTS	
				Water	Soil	Gravel	Asht	Other	TRH	PAH	HM (MB)	OCP	PCB	Asbestos Presence/Absence	Hold	7	8	9		10
TP04 - 0.2	10/7/13				X										X					#385760
TP04 - 0.5	10/7/13				X				X	X	X									
TP04 - 1.0	10/7/13				X								X							
TP04 - BS-1.0	10/7/13				X									X						
TP04 - BS	10/7/13				X									X						
TP04 - BS-1.8	10/7/13				X									X						Bag: TP04 - BS - 0.2
TP05 - 0.0	10/7/13				X									X						
TP05 - 0.2	10/7/13				X				X	X	X	X	X							
TP05 - 0.5	10/7/13				X										X					
TP05 - 1.0	10/7/13				X										X					
TP05 - 1.8	10/7/13				X				X	X	X									
TP05 - BS-1.8	10/7/13				X									X						
TP05 - 2.0	10/7/13				X									X						
TP06 - 0.0	10/7/13				X										X					
TP06 - 0.2	10/7/13				X				X	X	X			X						

REQUESTED BY					RESERVED BY				
Name	Organisation	Date	Time	Signature	Name	Organisation	Date	Time	Signature
A. Fletcher	GHD	10/07/2013		<i>MF</i>	Priscilla J. Cunningham	B-713 RSI	12/07/2013		<i>Priscilla J. Cunningham</i>
RECEIVED BY					RECEIVED BY				
Name	Organisation	Date	Time	Signature	Name	Organisation	Date	Time	Signature

It is the responsibility of the receiver to verify that the number of samples and their identifying sample numbers correspond to those listed on this form.
PLEASE EMAIL COMPLETED FORM TO GHD PROJECT MANAGER ON RECEIPT

FILE REF: L:\New\as\Contaminated Land\PhM\Full Book Based\GOC templates\G401 Labwork COO template.docx



GHD Pty Ltd, Level 15, 133 Castlemain Street, Sydney NSW 2000

Telephone: 02 9239 7100

Fax: (02) 9238 7194

ANN 29 008 458 375

Project No. 221-0005 Phone No. 02 9936 7038

Sent to Lab: MGT Labmark

Date Required: 15/07/2013

Project Name	Kennedy Hospital	Fax No.	02 9239 7195
---------------------	------------------	----------------	--------------

Address: Unit F6, Building F, 16 Mares Road

Date Submitted: 12/07/2013

Project Manager	Matthew Clifton	Email:
-----------------	-----------------	--------

Lane Cove West, NSW, 2066

Attention: Bob Symons

Contact Name: Amelia Fletcher

Fax: 9420 2977

Phone: 8216 6222

Page 3 of 6

PLEASE EMAIL COMPLETED FORM TO GND PROJECT MANAGER ON RECEIPT

FILE REF: RASentireContent\Land\HAPM\Bark Marsh\COG\Inventory\SIGT | shared COG Inventory.xls



© Ph Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Telephone: 0371 8232 7100

File: 0023 0206 7184

APR 28 2008 4:00 PM

Project No. 2210003

Phone No. 02 8238 7038

Send to Lab: MGT Labmark

Date Required: 19/07/2013

Project Name	Komjany Hospital
---------------------	------------------

Fax No. 02 9239 7196

Address: Unit FB, Building F, 16 Mars Road

Attention: Bob Symons

Date Submitted: 12/07/2013

Project Manager	Matthew Clutterham
------------------------	--------------------

Email:

Lane Cove West, NSW, 2066

Phone: 8215 6222

Page 4 of 6

Contact Name: Amelia Fletcher

certification@purdue.edu

Fax: 9420 2977

PLEASE EMAIL COMPLETED FORM TO OND PROJECT MANAGER ON RECEIPT

[illegible]



GHD Pty Ltd, Level 15, 123 Castlereagh Street, Sydney NSW 2000

Telephone: 01223 623471

Phone: 0251 8229 7194

AMM 30 CÓN AMB 573

Project No. 22-10053

Phone No. 012 9239 7000

Sent to Lab: MGT Labmark

Date Required: 15/07/2013

Project Name Kerrisdale Hospital

Fax No. 02 9239 7195

Address: Unit F6, Building F, 16 Mars Road

Date Submitted: 12/07/2013

Project Manager	Matthew Chaffman
-----------------	------------------

Email:

Lane Cove West, NSW, 2006

Attention: Bob Symons

Contact Name	Andrea Fletcher
--------------	-----------------

multivariate models

FILE: 9420 2977

Phone: 8215 8222

Page 5 of 6

RELINQUISHED BY					RECEIVED BY				
Name	Organization	Date	Time	Initial	Name	Organization	Date	Time	Initial
A. Fletcher	GHO	10/07/2013		ME	Inspector	Empire State	12-7-13	1057	Spring
RELINQUISHED BY					RECEIVED BY				
Name	Organization	Date	Time	Initial	Name	Organization	Date	Time	Initial

FILE REF.: S:\Current\Completed\LongV\447\447-101\Batt\Shaw\COO to-staff\WOT\stated COO response to 12 Sept.



PLEASE RETURN ALL DATA IN EXCEL FORMAT

CHAIN OF CUSTODY AND ANALYSIS REQUEST FORM

GHD Pty Ltd, Level 15, 133 Castlereagh Street, Sydney NSW 2000

Telephone: (02) 9238 7100

Fax: (02) 9238 7194

AMN 25 038 488 373

Project No. 221883 Phone No. 02 9238 7036

Sent to Lab: MGT Labmark

Project Name Kompass Hospital Fax No. 02 9239 7195

Address: Unit F6, Building F, 16 Mars Road

Date Required: 18/07/2013

Project Manager Matthew Cliftedham Email:

Lane Cove West, NSW, 2086

Attention: Bob Symons

Date Submitted: 12/07/2013

Contact Name Amylie Fletcher

Fax: 9420 2977

Phone: 8215 8222

Page 6 of 6

SAMPLE No.	Date Sampled	No. of Containers	Container Type / Size	MATRIX		PRESERVATION					ANALYSIS REQUIRED										Asbestos Presence/Absence	Hold	7	8	9	10	COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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RELINQUISHED BY				RECEIVED BY			
Name	Signature	Date	Time	Name	Signature	Date	Time
A. Fletcher	GHD	10/07/2013		MFL	Asulata	12.7.13	10.51
RELINQUISHED BY				RECEIVED BY			
Name	Signature	Date	Time	Name	Signature	Date	Time

It is the responsibility of the receiver to verify that the number of samples and their identifying sample numbers correspond to those listed on this form.
PLEASE EMAIL COMPLETED FORM TO GHD PROJECT MANAGER ON RECEIPT

FILE REF: 8\Sample\Centralised Landfill\soil\soil Back\Brent\MOOC\completer\GHD Labmark\ODG\completer\sh\Brent

Appendix E – Testpit Logs



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP01

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP01-0.0		FILL Clay, dark brown, with traces of rubble (brick and concrete).	M	No odour or staining throughout.	0.00
	0.0	TP01-0.2					
	0.0	TP01-0.5					
				CLAY Red/brown with light brown mottling, high plasticity, medium to hard.	M		-0.60 0.60
	0.0	TP01-1.0					
1.0							-1.00 1.00

NOTES:

GHD Soil Classifications: The GHD Soil Classification is based on Australian Standards AS 1726-1993.



TEST PIT LOG

ENVIRONMENTAL

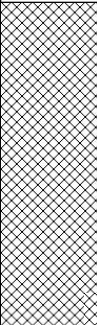
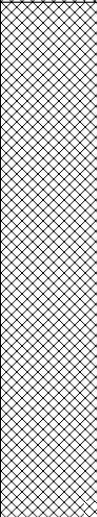
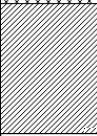
Test Pit: TP02

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP02-0.0		FILL Clay, dark brown, with traces of rubble (brick and concrete) and ash.	M	No odour or staining throughout.	0.00
	0.0	TP02-0.2 (QA01)					
							-0.50
	0.0	TP02-0.5		FILL Clay, red/brown, with trace of rubble (including terracotta pipe, concrete and tiles).	M		0.50
	0.0	TP02-1.0					
1.0							
							-1.30
				CLAY Red/brown with grey mottled patches, high plasticity	W		1.30
	0.0	TP02_1.5					
							-1.50
							1.50

NOTES: Water entering excavation at 1.3mbgl. Located on an old test pit from survey, so layers were slightly mixed.



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP03

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP03-0.0		FILL Clay, brown, with rubble (brick and concrete) and ash, loose.	M	No odour or staining throughout.	0.00
	0.0						
		TP03-0.2					
	0.0						-0.50
		TP03-0.5		CLAY Red/brown with light brown mottling, high plasticity, firm.	M		0.50
	0.0						
		TP03-1.0					-1.00
1.0							1.00

NOTES:



TEST PIT LOG

ENVIRONMENTAL

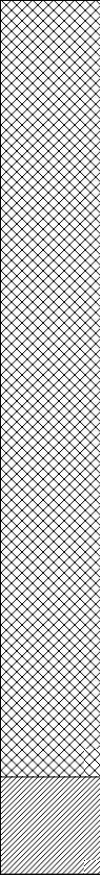
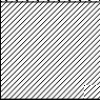
Test Pit: TP04

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP04-0.0		FILL Clay, brown, with rubble (brick and concrete).	M	No odour or staining throughout. Located on an old test pit from survey, so layers were slightly mixed.	0.00
	0.0	TP04-0.2		0.2mbgl- Piece of cloth observed (TP04-BS-0.2)			
	0.0	TP04-0.5					
	0.0	TP04-1.0		1.0mbgl- Fragment of ACM observed (TP04-BS-1.0)	W	Water entering excavation at 1.3mbgl.	
1.0							
	0.0	TP04_1.8		CLAY Red/brown, high plasticity, firm.			-1.60 1.60
							-1.80 1.80
2.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

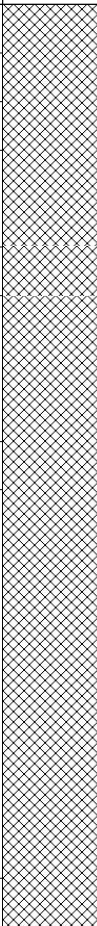
Test Pit: TP05

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP05-0.0		FILL Clay,brown, loose, with rubble (brick and concrete), metal and ash, organics at 0.2m.	M	Adjacent to TP05 (1m away) Friable weathered insulation. (SS-BS-0.0) No odour or staining throughout.	0.00
	0.0	TP05-0.2 (QA02)					
	0.0	TP05-0.5		0.5mbgl - Small piece of insulation material within soil sample			
	0.0	TP05-1.0					
1.0							
	0.0	TP05_1.8		1.8mbgl 0 Friable weathered lagging. (TP05-BS-1.8)	M		-1.80
							1.80
	0.0	TP05_2.0		CLAY Brown, high plasticity, firm to stiff.			-1.90
						1.90	
2.0							-2.00
							2.00

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP06

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP06-0.0		FILL Clay, brown, ash observed to 0.2mbgl.	M	No odour or staining throughout.	0.00
	0.0	TP06-0.2					
	0.0	TP06-0.5		CLAY Red/brown, high plasticity, firm.	M		-0.40 0.40 -0.50 0.50
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

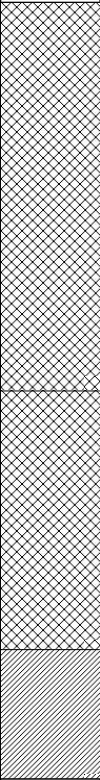
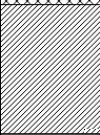
Test Pit: TP07

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP07-0.0		FILL Clay, brown, loose.	M	No odour or staining throughout. No rubble observed.	0.00
	0.0	TP07-0.2					
	0.0	TP07-0.5					
				FILL Clay, grey, sticky, soft.	W		-0.60 0.60
1.0	0.0	TP07-1.0		CLAY Red, high plasticity, firm.	M		-1.00 1.00
	0.0	TP07-1.2					-1.20 1.20

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP08

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP08-0.0		FILL Clay, brown, ash and rubble.	M	No odour or staining throughout.	0.00
	0.0	TP08-0.2 (QA03)		CLAY Red, high plasticity, firm.	M		-0.05
							-0.20
							0.20
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP09

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP09-0.0		FILL Clay, brown/grey.	M	No odour or staining throughout. No rubble observed.	0.00
	0.0	TP09-0.2					
	0.0	TP09-0.5		CLAY Red/brown, high plasticity, hard.	M		-0.50 0.50
	0.0	TP09-0.7					-0.70 0.70
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP10

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP10-0.0		FILL Clay, brown, with ash and rubble (brick and concrete).	M	No odour or staining throughout.	0.00
	0.0	TP10-0.2					-0.30
				CLAY Red, high plasticity, firm.	M		0.30
	0.0	TP10-0.5					-0.50
							0.50
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP11

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP11-0.0		FILL Clay, dark brown, with rubble (brick and concrete) and ash and coal.	M	Possibly within old building footprint. Bitumen odour from surface to 0.5mbgl. No staining throughout.	0.00
	0.0	TP11-0.5		CLAY White and red mottled, soft.(Fill or reworked natural)	M		-0.50
							0.50
1.0	0.0	TP11-1.0					
2.0							
	0.0	TP11_2.4		2.0mbgl- Water entering excavation.			-2.40
							2.40

NOTES: Water entering excavation at 1.3mbgl. Located on an old test pit from survey, so layers were slightly mixed.



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP12

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP12-0.0		FILL Clay, brown, with rubble (brick and concrete) and plastic.(appears to be from recent demolition work)	M	Possibly within old building footprint. No odour or staining throughout.	0.00
	0.0			0.5mbgl- Water entering at 0.5m.			-0.50
		TP12-0.5		CLAY Red/brown, soft.(Fill or reworked natural)	W		0.50
	0.0						
		TP12-1.0		1.0mbgl- Testpit aborted as it was deemed to unstable to continue.			-1.00
1.0							1.00

NOTES: Water entering excavation at 1.3mbgl. Located on an old test pit from survey, so layers were slightly mixed.



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP13

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.			
0.0	0.0		Ground Surface			0.00
		TP13-0.0	FILL Clay, brown, loose.	M	No odour or staining throughout.	0.00
	0.0	TP13-0.4 (QA04)	CLAY Red/brown, high plasticity, firm.	M		-0.30 0.30
						-0.40 0.40
1.0						

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP14

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.			
0.0	0.0		Ground Surface			0.00
		TP14-0.0	FILL Clay, brown, with gravel, medium grained angular gravel, loose.	M	No odour or staining throughout.	0.00
						-0.20
			CLAY Red/brown, high plasticity, soft.	M		0.20
	0.0	TP14-0.5				-0.50
						0.50
1.0						

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP15

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.			
0.0	0.0		Ground Surface			0.00
		TP15-0.0	FILL Clay, brown, with angular gravel, organic.	M	No odour or staining throughout.	0.00
						-0.20
			CLAY Red/brown, high plasticity, firm.	M		0.20
	0.0	TP15-0.5				-0.50
						0.50
1.0						

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP16

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP16-0.0		FILL Clay, brown, with angular gravel, organic. ACM found (TP16-BS-0.3)	M	No odour or staining throughout. Location TP16 approximately 5-6m from possible lagging sample in TP05	0.00
							-0.30
	0.0			CLAY Red/brown, high plasticity, firm.	M		0.30
		TP16-0.5					-0.50
							0.50
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP17

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				SOIL DESCRIPTION Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP17-0.0 (QA05)		FILL Clay, brown, with organic matter.	M	No odour or staining throughout. Location TP17 approximately 6m downhill of surveyors "AC" peg.	0.00
				CLAY Red/brown, high plasticity, firm.	M		-0.10
	0.0	TP17-0.3					0.10
							-0.30
							0.30
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP18

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP18-0.0		FILL Clay, brown, with rubble (concrete and brick) and ash. ACM fragment observed (TP18-BS-0.0).	M	No odour or staining throughout.	0.00
							-0.20
	0.0			CLAY Red/brown, high plasticity, firm.	M		0.20
		TP18-0.4					-0.40
							0.40
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP19

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP19-0.0		FILL Clay, black, loose. ACM fragment observed (TP19-BS-0.0).	D	No odour or staining throughout. Advised of former hospital piggery near location by Lahey.	0.00
				CLAY Red, high plasticity, crumbly, soft.	D		-0.30 0.30
							-0.50 0.50
1.0							

NOTES:



TEST PIT LOG

ENVIRONMENTAL

Test Pit: TP20

Page: 1 of 1

Client: Johnson Developments
Project: Consultancy for Kempsey Hospital
Job No.: 2216893
Location: Kempsey Hospital
Date: 10 July 2013

Machine: 3.5t Excavator
Type/Model:
Operator: Clybucca Earthmoving
Bucket Width: 450mm
Pit Width (m): 0.45 **Length (m):** 1.2

Easting: 0
Northing: 0
Grid Ref:
Elevation: 0
Logged by: AF **Checked by:** AF

EXCAVATION				Soil Type (Classification Group Symbol); Particle Size; Colour; Secondary / Minor Components.	Moisture	CONTAMINANT INDICATORS Odours, staining, waste materials, separate phase liquids, imported fill, ash.	Depth / Elevation (m)
Depth (m)	PID (ppm)	Sample ID	Graphic Log				
0.0	0.0			Ground Surface			0.00
		TP20-0.0 (QA06)		FILL Clay, brown, loose, crumbly, with trace of gravel, organic matter.	D	No odour or staining throughout.	0.00
							-0.30
				CLAY Red, high plasticity, crumbly, soft.	D		0.30
	0.0	TP20-0.5					-0.50
							0.50
1.0							

NOTES:

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Document2

Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
1	Amylia Fletcher	Ian Gregson		Ian Gregson		19/7/13
2	Amylia Fletcher	Ian Gregson		Ian Gregson		26/7/13

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