

APPENDIX B3:L

Contaminated land documentation

Golder Associates

Document 137632097-013-R-Rev0

10 Oct 2013

APPENDIX L

137632097



Field Blanks (SOIL)
 Filter: SDG in('EB1228782') and Site_ID IN('127683017')

SDG	EB1228782
Field_ID	QA6
Sampled_Date-Time	2/11/2012
Sample_Type	Trip_B

Chem_Group	ChemName	Units	EQL
MAH	Benzene	mg/kg	0.2
	Ethylbenzene	mg/kg	0.5
	Toluene	mg/kg	0.5
	Xylenes (m & p)	mg/kg	0.5
	Xylene (o)	mg/kg	0.5
	Xylenes (Sum of total)	mg/kg	0.5
	Total BTEX	mg/kg	0.2
	Naphthalene	mg/kg	0.5
			<1
Total Petroleum Hydrocarbons	TPH C 6 - C 9 Fraction	mg/kg	10
			<10

APPENDIX B3:L

137632097



Field Blanks (WATER)
Filter: SDG in('EB1228782') and Site_ID IN('127683017')

SDG	EB1228782
Field_ID	QA5
Sampled_Date-Time	2/11/2012
Sample_Type	Rinsate

Chem_Group	ChemName	Units	EQL	
Halogenated Benzenes	Hexachlorobenzene	mg/l	0.0005	<0.0005
Heavy Metals	Arsenic	mg/l	0.001	<0.001
	Cadmium	mg/l	0.0001	<0.0001
	Chromium	mg/l	0.001	<0.001
	Copper	mg/l	0.001	<0.001
	Lead	mg/l	0.001	<0.001
	Mercury	mg/l	0.0001	0.0004
	Nickel	mg/L	0.001	<0.001
	Zinc	mg/l	0.005	<0.005
MAH	Benzene	mg/l	0.001	<0.001
	Ethylbenzene	mg/l	0.002	<0.002
	Toluene	mg/l	0.002	<0.002
	Xylenes (m & p)	mg/l	0.002	<0.002
	Xylene (o)	mg/l	0.002	<0.002
	Xylenes (Sum of total)	mg/l	0.002	<0.002
	Total BTEX	mg/l	0.001	<0.001
Organochlorine Pesticides	a-BHC	mg/l	0.0005	<0.0005
	Aldrin	mg/l	0.0005	<0.0005
	Aldrin & Dieldrin (Sum of total)	mg/l	0.0005	<0.0005
	b-BHC	mg/l	0.0005	<0.0005
	Chlordane (Sum of total)	mg/l	0.0005	<0.0005
	cis-Chlordane	mg/l	0.0005	<0.0005
	trans-Chlordane	mg/l	0.0005	<0.0005
	d-BHC	mg/l	0.0005	<0.0005
	DDD	mg/l	0.0005	<0.0005
	DDE	mg/l	0.0005	<0.0005
	DDT	mg/l	0.002	<0.002
	DDT+DDE+DDD (Sum of total)	mg/l	0.0005	<0.0005
	Dieldrin	mg/l	0.0005	<0.0005
	Endosulfan I	mg/l	0.0005	<0.0005
	Endosulfan II	mg/L	0.0005	<0.0005
	Endosulfan sulphate	mg/l	0.0005	<0.0005
	Endrin	mg/L	0.0005	<0.0005
	Endrin aldehyde	mg/l	0.0005	<0.0005
	Endrin ketone	mg/l	0.0005	<0.0005
	g-BHC	mg/l	0.0005	<0.0005
	Heptachlor	mg/L	0.0005	<0.0005
	Heptachlor epoxide	mg/l	0.0005	<0.0005
	Methoxychlor	mg/L	0.002	<0.002
Organophosphorous Pesticides	Azinphos-methyl	mg/L	0.0005	<0.0005
	Bromophos-ethyl	mg/L	0.0005	<0.0005
	Carbophenothion	mg/L	0.0005	<0.0005
	Chlorfenvinphos	mg/l	0.0005	<0.0005
	Chlorpyrifos	mg/l	0.0005	<0.0005
	Chlorpyrifos-methyl	mg/l	0.0005	<0.0005
	Diazinon	mg/L	0.0005	<0.0005
	Dichlorvos	mg/L	0.0005	<0.0005
	Dimethoate	mg/L	0.0005	<0.0005
	Ethion	mg/l	0.0005	<0.0005
	Fenamiphos	mg/l	0.0005	<0.0005
	Fenthion	mg/l	0.0005	<0.0005
	Malathion	mg/l	0.0005	<0.0005
	Parathion-methyl	mg/l	0.002	<0.002
	Monocrotophos	mg/l	0.002	<0.002
	Parathion	mg/l	0.002	<0.002
	Pririphos-ethyl	mg/l	0.0005	<0.002
	Prothiofos	mg/l	0.0005	<0.0005
Other	Benzo(a)pyrene (TEQs)	mg/l	0.0005	<0.0005
PAH	Acenaphthene	mg/L	0.001	<0.001
	Acenaphthylene	mg/l	0.001	<0.001
	Anthracene	mg/l	0.001	<0.001
	Benzo(a)anthracene	mg/l	0.001	<0.001
	Benzo(a)pyrene	mg/L	0.0005	<0.0005
	Benzo(b)fluoranthene	mg/l	0.001	<0.001
	Benzo(g,h,i)perylene	mg/l	0.001	<0.001
	Benzo(k)fluoranthene	mg/l	0.001	<0.001
	Chrysene	mg/l	0.001	<0.001
	Dibenz(a,h)anthracene	mg/l	0.001	<0.001
	Fluoranthene	mg/l	0.001	<0.001
	Fluorene	mg/L	0.001	<0.001
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001	<0.001
	Naphthalene	mg/l	0.001	<0.005
	Phenanthrene	mg/L	0.001	<0.001
	Pyrene	mg/l	0.001	<0.001
	PAH (Sum of Common 16 PAHs - Lab Reported)	mg/l	0.0005	<0.0005
Pesticides-Others	Demeton-s-methyl	mg/l	0.0005	<0.0005
Total Petroleum Hydrocarbons	TPH C 6 - C 9 Fraction	mg/L	0.02	0.03
	TPH C10 - C14 Fraction	mg/l	0.05	<0.05
	TPH C15 - C28 Fraction	mg/L	0.1	<0.1
	TPH C29-C36 Fraction	mg/l	0.05	<0.05
	TPH+C10 - C36 (Sum of total) (Lab Reported)	mg/l	0.05	<0.05

Field Duplicate (SOCL)
Filter: SDG in (E11226762) and Site_ID in (12768017)

Chem Group	Chem Name	Unit	EqL	EB11226762 RPD	EB11226762 RPD	EB11226762 RPD	EB11226762 RPD	EB11226762 RPD	EB11226762 RPD		
Halogenated Benzene	Headchlorobenzene	mg/kg	0.05	<1.33	0	<1.33	0	<1.33	<0.05	0	
	Heavy Metals	Arsenic	mg/kg	5	<5	0	<5	<2	0	<5	2.8
		Cadmium	mg/kg	1	<1	<1	0	<1	<0.5	0	0.5
	Other	Chromium	mg/kg	14	12	15	24	14	<5	96	24
		Copper	mg/kg	35	24	20	28	30	<5	144	22
		Lead	mg/kg	34	20	20	28	30	<5	144	22
		Mercury	mg/kg	0.1	0.9	<0.1	<0.1	0.9	0.8	12	<0.1
		Nickel	mg/kg	18	16	6	6	12	10	<5	67
		Zinc	mg/kg	188	182	3	385	384	3	188	<5
	MAH	Benzene	mg/kg	0.2	<0.2	0	<0.2	<2	0	<0.2	<0.05
Ethylbenzene		mg/kg	0.5	<0.5	0	<0.5	<2	0	<0.5	<0.05	
Toluene		mg/kg	0.5	<0.5	0	<0.5	<2	0	<0.5	<0.05	
Xylenes (o, m & p)		mg/kg	0.5	<0.5	0	<0.5	<2	0	<0.5	<0.05	
Xylenes (o)		mg/kg	0.5	<0.5	0	<0.5	<2	0	<0.5	<0.05	
Xylenes (m & p)		mg/kg	0.5	<0.5	0	<0.5	<2	0	<0.5	<0.05	
Total BTEX		mg/kg	0.2	<0.2	0	<0.2	<2	0	<0.2	<0.2	
Organochlorine Pesticides		a-BHC	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05
		Alrin	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05
		Alrin & Dieldrin (Sum of total)	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05
	Chlordane	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Chlordane (Sum of total)	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	cis-Chlordane	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	trans-Chlordane	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	DDD	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	DDE	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	DDT	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
Organophosphorous Pesticides	Acetamiprid	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Azinphos-methyl	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Bromophos-ethyl	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Carbofenthiion	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Chlorpyrifos	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Chlorpyrifos-methyl	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Diazinon	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Dichlorvos	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Emamectin	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Fenathion	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
Other	Acetaminophen	mg/kg	0.2	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Acetaminophen-methyl	mg/kg	0.2	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Parathion	mg/kg	0.2	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Monocrotophos	mg/kg	0.2	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Phosphor-ethyl	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Phosphor	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Benzo(a)pyrene (ECo)	mg/kg	0.5	<1.2	0	<0.5	<0.5	0	<1.2	<0.5	
	Acenaphthene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Acenaphthylene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Anthracene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
PAH	Benzo(a)anthracene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Benzo(b)fluoranthene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Benzo(k)fluoranthene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Benzo(a)pyrene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Benzo(b)anthracene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Fluorene	mg/kg	0.5	3.7	2.6	26	<0.5	<0.5	3.7	<0.5	
	Fluorene	mg/kg	0.5	<7	0	<0.5	<0.5	0	<7	<0.5	
	Indeno(1,2,3-cd)pyrene	mg/kg	0.5	<1	0	<1	<0.5	0	<1	<0.5	
	Naphthalene	mg/kg	0.5	<2.4	0	<0.5	<0.5	0	<2.4	<0.5	
	Phenanthrene	mg/kg	0.5	41.2	28.6	36	<0.5	<0.5	41.2	<0.5	
Pesticides-Other	PAH (Sum of Common 16 PAHs - Lab Reported)	mg/kg	0.5	62.7	39.8	46	<0.5	<0.5	62.7	<0.5	
	Dimethyl-methyl	mg/kg	0.05	<1.33	0	<1.32	<1.34	0	<1.33	<0.05	
	Total Petroleum Hydrocarbons	PH C6 - C9 Fraction	mg/kg	10	<10	0	<10	<10	0	<10	<20
		PH C10 - C14 Fraction	mg/kg	20	25.70	5	7.20	7.60	5	26.90	3.00
		PH C15 - C28 Fraction	mg/kg	6000	15	33200	28000	24	76800	81000	5
		PH C29 - C36 Fraction	mg/kg	100	100	100	100	100	100	100	100
	Total Petroleum Hydrocarbons (Lab Reported)	PH C10 - C28 (Sum of total)	mg/kg	100	100	100	100	100	100	100	100
		PH C10 - C28 (Sum of total)	mg/kg	100	100	100	100	100	100	100	100

RPDs have only been conducted where a concentration is greater than 5 times the EQL.
 **High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are 50 (0-0.5 x EQL), 50 (10-30 x EQL), 50 (1-30 x EQL).)
 ***In-table Duplicates are enabled on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory.

