

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-NE-AGG1	D1B-NE-AGG2	D1B-NE-AGG3	D1B-SE-AGG1	D1B-SE-AGG2	D1B-SS1	D1B-SS2	D1B-SS3	D1B-SS4	D1B-SS5			
Depth						0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	1.9	2.4	2.6	0.9	5.2	11.9	7.9	10.4	9.3	10.2	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	-	<0.2	0.3	0.2	0.3	0.7	0.3	0.2	0.7	0.3	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	-	1393	1303	2215	2749	396	416	335	241	307	<100	uS/cm	TM76/PM58
pH #M	8.65	8.25	9.64	8.96	8.49	8.42	10.07	9.12	8.67	8.68	<0.01	pH units	TM73/PM11
Sample Type	Clay	Other	Other	Silt	Sand	Clay	Loamy Sand	Clay	Sand	Clay		None	PM13/PM0
Sample Colour	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Medium Brown	Light Brown	Light Brown	Light Brown	Light Brown		None	PM13/PM0
Other Items	<small>dry clay, stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones and brick fragments</small>	<small>stones, brick fragments and other</small>	<small>stones and sand</small>	<small>stones</small>	<small>stones and sand</small>	<small>stones and clinker</small>	<small>stones and sand</small>		None	PM13/PM0
Mass of Dry Sample	72.9	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

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J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Antimony	2	1	1	<1	1	1	3	2	7	1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic <sup>#M</sup>	30.6	21.6	23.9	15.0	16.1	21.9	86.4	22.9	23.5	27.0	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium <sup>#M</sup>	55	85	48	25	73	55	120	52	500	27	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	2.0	1.5	1.0	0.5	1.0	0.7	1.5	0.9	1.8	1.0	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	0.2	0.5	<0.1	<0.1	1.1	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium <sup>#M</sup>	69.3	38.2	33.6	14.9	34.0	22.3	39.4	23.7	27.4	21.1	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt <sup>#M</sup>	11.1	11.0	5.8	4.8	7.8	5.8	11.9	7.2	13.2	6.1	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper <sup>#M</sup>	<1	<1	<1	<1	<1	<1	<1	<1	16	<1	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead <sup>#M</sup>	2035	13	15	9	54	19	41	11	76	10	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury <sup>#M</sup>	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum <sup>#M</sup>	0.6	0.8	0.9	1.2	1.9	0.8	0.9	1.2	5.2	0.5	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel <sup>#M</sup>	39.1	24.8	18.0	13.0	18.3	16.2	31.0	17.2	33.8	15.9	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium <sup>#M</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	144	104	77	47	58	48	104	67	64	47	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron <sup>#M</sup>	1.2	0.8	1.0	1.1	4.2	1.4	1.9	0.6	0.9	0.1	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc <sup>#M</sup>	80	52	52	46	98	56	115	53	172	51	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

**Jones Environmental Laboratory**

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Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
<b>PAH MS</b>													
Naphthalene <sup>#M</sup>	<0.04	<0.04	<0.04	<0.04	<0.40 <sub>A</sub>	<0.04	<0.04	0.06	0.10	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.03	<0.03	<0.03	0.07	<0.30 <sub>A</sub>	<0.03	<0.03	<0.03	0.13	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene <sup>#M</sup>	<0.05	<0.05	<0.05	<0.05	<0.50 <sub>A</sub>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene <sup>#M</sup>	<0.04	<0.04	<0.04	<0.04	<0.40 <sub>A</sub>	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene <sup>#M</sup>	0.36	0.23	0.07	0.24	<0.30 <sub>A</sub>	0.22	0.46	0.04	0.31	<0.03	<0.03	mg/kg	TM4/PM8
Anthracene <sup>#</sup>	0.10	<0.04	<0.04	0.09	<0.40 <sub>A</sub>	0.05	0.09	<0.04	0.11	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene <sup>#M</sup>	1.07	0.54	0.40	0.95	0.76 <sub>A</sub>	0.31	0.49	0.06	0.46	<0.03	<0.03	mg/kg	TM4/PM8
Pyrene <sup>#</sup>	0.91	0.44	0.38	0.79	0.72 <sub>A</sub>	0.25	0.42	0.06	0.40	<0.03	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene <sup>#</sup>	0.56	0.25	0.22	0.75	0.78 <sub>A</sub>	0.18	0.26	<0.06	0.36	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene <sup>#M</sup>	0.57	0.29	0.25	0.94	0.79 <sub>A</sub>	0.18	0.25	0.04	0.39	0.02	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene <sup>#M</sup>	0.87	0.46	0.39	1.76	1.12 <sub>A</sub>	0.28	0.39	0.09	0.86	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene <sup>#</sup>	0.52	0.25	0.21	0.85	0.56 <sub>A</sub>	0.15	0.22	0.06	0.55	<0.04	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene <sup>#M</sup>	0.33	0.18	0.17	0.61	0.53 <sub>A</sub>	0.11	0.14	0.04	0.47	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene <sup>#</sup>	0.06	<0.04	<0.04	0.14	<0.40 <sub>A</sub>	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene <sup>#</sup>	0.31	0.16	0.15	0.57	0.54 <sub>A</sub>	0.10	0.13	0.06	0.49	0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	5.7	2.8	2.2	7.8	<6.0 <sub>A</sub>	1.8	2.9	<0.6	4.7	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.63	0.33	0.28	1.27	0.81 <sub>A</sub>	0.20	0.28	0.06	0.62	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.24	0.13	0.11	0.49	0.31 <sub>A</sub>	0.08	0.11	0.03	0.24	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	103	102	106	107	98 <sub>A</sub>	104	104	105	101	100	<0	%	TM4/PM8
<b>TPH CWG</b>													
<b>Aliphatics</b>													
>C5-C6 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 <sup>#M</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 <sup>#M</sup>	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 <sup>#M</sup>	<7	<7	<7	<7	121	12	66	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	<19	<19	<19	121	<19	66	<19	<19	<19	<19	mg/kg	TM5/PM16
<b>Aromatics</b>													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	<7	<7	<7	<7	264	<7	165	<7	55	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19	<19	<19	<19	264	<19	165	<19	55	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	<38	<38	<38	<38	385	<38	231	<38	55	<38	<38	mg/kg	TM5/PM16
<b>MTBE <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
<b>Benzene <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

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J E Sample No.	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS6	D1B-SS7	D1B-SS8	D1B-SS9	D1B-SS10	D1B-SS11	D1B-SS12	D1B-SS13	D1B-SS14	D1B-SS15	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<200 <sub>p</sub>	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	13.6	16.9	11.7	10.0	20.2	8.2	14.5	10.6	10.4	5.5	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	0.9	1.0	0.6	0.4	5.5	2.8	1.2	0.9	22.8	0.2	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	227	148	407	312	816	214	235	153	138	106	<100	uS/cm	TM76/PM58
pH #M	8.57	8.50	8.91	8.07	9.41	8.97	8.49	8.54	8.54	8.89	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Loamy Sand	Sand		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown		None	PM13/PM0
Other Items	stones and sand	stones and roots	stones	stones and sand	stones, sand and clinker	stones and sand	stones	stones and sand	stones and clinker	stones		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25			
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	LOD/LOR	Units	Method No.
Antimony	1	<1	<1	1	1	2	1	<1	<1	<1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic <sup>#M</sup>	16.2	7.8	13.2	17.6	19.8	28.0	27.1	14.5	14.9	14.5	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium <sup>#M</sup>	94	14	42	56	66	107	31	25	26	62	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	0.7	<0.5	0.7	0.8	0.8	1.9	0.9	<0.5	0.6	0.7	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium <sup>#M</sup>	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium <sup>#M</sup>	22.2	6.8	18.2	21.4	20.7	50.7	22.1	12.6	16.7	18.8	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt <sup>#M</sup>	6.6	3.6	5.7	8.1	7.6	14.4	6.9	3.9	4.9	5.5	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper <sup>#M</sup>	<1	<1	<1	<1	<1	<1	<1	7	8	9	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead <sup>#M</sup>	40	6	13	20	14	16	9	9	41	19	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum <sup>#M</sup>	0.8	1.0	0.7	0.9	1.1	1.3	0.9	1.4	1.6	0.6	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel <sup>#M</sup>	14.0	7.6	13.7	16.4	16.4	30.5	17.9	10.7	12.3	13.0	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium <sup>#M</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	55	20	46	56	52	124	52	41	45	46	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron <sup>#M</sup>	1.4	0.4	1.1	1.4	1.4	1.7	1.3	0.7	0.5	1.5	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc <sup>#M</sup>	59	14	52	54	44	67	52	27	24	55	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
<b>PAH MS</b>													
Naphthalene <sup>#M</sup>	0.33	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene <sup>#M</sup>	0.67	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene <sup>#M</sup>	0.46	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene <sup>#M</sup>	4.53	<0.03	0.30	0.53	<0.03	<0.03	0.03	0.03	0.08	0.14	<0.03	mg/kg	TM4/PM8
Anthracene <sup>#</sup>	1.37	<0.04	0.08	0.19	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	mg/kg	TM4/PM8
Fluoranthene <sup>#M</sup>	5.22	<0.03	0.40	1.09	0.05	<0.03	0.07	0.07	0.29	0.47	<0.03	mg/kg	TM4/PM8
Pyrene <sup>#</sup>	3.98	<0.03	0.33	0.94	0.05	<0.03	0.07	0.06	0.25	0.40	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene <sup>#</sup>	2.35	<0.06	0.25	0.52	<0.06	<0.06	0.06	0.08	0.14	0.23	<0.06	mg/kg	TM4/PM8
Chrysene <sup>#M</sup>	2.22	<0.02	0.25	0.55	0.03	<0.02	0.05	0.04	0.14	0.26	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene <sup>#M</sup>	3.25	<0.07	0.40	0.89	<0.07	<0.07	0.10	0.09	0.18	0.39	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene <sup>#</sup>	1.93	<0.04	0.23	0.59	<0.04	<0.04	0.05	0.06	0.11	0.27	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene <sup>#M</sup>	0.95	<0.04	0.13	0.36	<0.04	<0.04	0.04	0.04	0.07	0.14	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene <sup>#</sup>	0.15	<0.04	<0.04	0.09	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene <sup>#</sup>	0.86	<0.04	0.13	0.35	<0.04	<0.04	0.04	0.06	0.07	0.16	<0.04	mg/kg	TM4/PM8
PAH 16 Total	28.4	<0.6	2.5	6.1	<0.6	<0.6	<0.6	<0.6	1.3	2.5	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	2.34	<0.05	0.29	0.64	<0.05	<0.05	0.07	0.06	0.13	0.28	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.91	<0.02	0.11	0.25	<0.02	<0.02	0.03	0.03	0.05	0.11	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	102	102	98	100	90	89	95	98	94	96	<0	%	TM4/PM8
<b>TPH CWG</b>													
<b>Aliphatics</b>													
>C5-C6 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 <sup>#M</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 <sup>#M</sup>	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 <sup>#M</sup>	34	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	34	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/TPH36/PM12/PM16
<b>Aromatics</b>													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	47	<7	<7	<7	<7	<7	16	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	182	<7	<7	<7	<7	<7	38	<7	94	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	233	<19	<19	<19	<19	<19	54	<19	94	<19	<19	mg/kg	TM5/TPH36/PM12/PM16
Total aliphatics and aromatics(C5-35)	267	<38	<38	<38	<38	<38	54	<38	94	<38	<38	mg/kg	TM5/TPH36/PM12/PM16
<b>MTBE <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
<b>Benzene <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

Please include all sections of this report if it is reproduced

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS16	D1B-SS17	D1B-SS18	D1B-SS19	D1B-SS20	D1B-SS21	D1B-SS22	D1B-SS23	D1B-SS24	D1B-SS25	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	10.3	6.9	11.5	9.6	13.0	16.8	6.9	10.0	14.2	11.1	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	1.3	0.4	0.9	1.6	1.7	1.3	1.2	1.9	0.3	1.2	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	530	496	231	406	367	128	449	136	116	344	<100	uS/cm	TM76/PM58
pH #M	8.22	8.15	8.45	8.16	8.10	8.33	8.82	8.57	9.05	8.21	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Sand	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones and brick fragment	dry clay and stones	stones and sand	stones	stones	stones and roots	stones	stones, sand and roots	stones and sand	stones and sand		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Antimony	<1	<1	<1	<1	1	<1	<1	2	1	<1	<1	mg/kg	TM30/PM15
Antimony	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Arsenic <sup>#M</sup>	15.9	14.7	10.5	9.8	26.0	12.8	16.8	24.7	24.4	17.7	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Barium <sup>#M</sup>	58	43	32	21	77	33	93	89	84	55	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Beryllium	0.8	0.6	0.6	<0.5	1.2	<0.5	0.8	1.5	1.4	0.9	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cadmium <sup>#M</sup>	0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Chromium <sup>#M</sup>	19.6	16.8	14.9	11.8	34.5	13.1	23.9	44.0	36.9	24.5	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Cobalt <sup>#M</sup>	6.7	5.4	4.4	3.1	10.2	3.4	6.9	12.9	11.4	7.3	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	-	-	-	-	-	-	<0.5	mg/kg	TM30/PM62
Copper <sup>#M</sup>	10	42	8	5	22	6	12	14	14	9	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Lead <sup>#M</sup>	19	10	14	<5	28	10	26	17	19	11	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62
Mercury <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Molybdenum <sup>#M</sup>	0.7	1.0	0.8	0.7	1.9	0.7	1.1	1.3	1.2	1.0	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM30/PM62
Nickel <sup>#M</sup>	14.7	13.7	10.3	8.6	28.6	9.0	16.6	28.9	25.6	17.1	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	-	-	-	-	-	-	<0.7	mg/kg	TM30/PM62
Selenium <sup>#M</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Vanadium	50	43	37	32	76	30	52	101	85	58	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	-	-	-	-	-	-	<1	mg/kg	TM30/PM62
Water Soluble Boron <sup>#M</sup>	1.2	0.9	1.1	0.3	1.3	0.8	1.6	2.3	2.7	1.4	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	-	-	-	-	-	-	<0.1	mg/kg	TM74/PM61
Zinc <sup>#M</sup>	49	37	25	62	70	44	64	64	66	45	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	-	-	-	-	-	-	<5	mg/kg	TM30/PM62



**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
<b>PAH MS</b>													
Naphthalene <sup>#M</sup>	<0.04	0.25	<0.04	<0.04	0.09	<0.80 <sub>D</sub>	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	0.07	<0.03	<0.03	0.03	<0.60 <sub>D</sub>	0.06	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene <sup>#M</sup>	<0.05	0.81	<0.05	<0.05	<0.05	<1.00 <sub>D</sub>	0.07	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene <sup>#M</sup>	<0.04	0.74	<0.04	<0.04	<0.04	<0.80 <sub>D</sub>	0.06	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene <sup>#M</sup>	0.17	6.74	0.04	<0.03	0.22	4.29 <sub>D</sub>	0.73	<0.03	<0.03	0.05	<0.03	mg/kg	TM4/PM8
Anthracene <sup>#</sup>	0.04	1.98	<0.04	<0.04	0.07	<0.80 <sub>D</sub>	0.22	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene <sup>#M</sup>	0.48	8.23	0.10	<0.03	0.62	4.16 <sub>D</sub>	1.33	<0.03	0.05	0.09	<0.03	mg/kg	TM4/PM8
Pyrene <sup>#</sup>	0.42	6.67	0.09	<0.03	0.54	2.95 <sub>D</sub>	1.06	<0.03	0.05	0.08	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene <sup>#</sup>	0.23	2.91	0.09	<0.06	0.29	2.05 <sub>D</sub>	0.82	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8
Chrysene <sup>#M</sup>	0.26	2.76	0.07	<0.02	0.32	1.41 <sub>D</sub>	0.74	<0.02	0.03	0.06	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene <sup>#M</sup>	0.41	4.04	0.10	<0.07	0.58	<1.40 <sub>D</sub>	1.26	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene <sup>#</sup>	0.23	2.8	0.05	<0.04	0.39	<0.80 <sub>D</sub>	0.67	<0.04	<0.04	0.05	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene <sup>#M</sup>	0.15	1.39	0.04	<0.04	0.22	<0.80 <sub>D</sub>	0.47	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene <sup>#</sup>	<0.04	0.14	<0.04	<0.04	<0.04	<0.80 <sub>D</sub>	0.07	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene <sup>#</sup>	0.15	1.32	0.05	<0.04	0.23	<0.80 <sub>D</sub>	0.44	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
PAH 16 Total	2.5	40.9	0.6	<0.6	3.6	14.9 <sub>D</sub>	8.0	<0.6	<0.6	<0.6	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.30	2.91	0.07	<0.05	0.42	<1.00 <sub>D</sub>	0.91	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.11	1.13	0.03	<0.02	0.16	<0.40 <sub>D</sub>	0.35	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	99	98	95	93	95	95 <sub>D</sub>	92	91	93	91	<0	%	TM4/PM8
<b>TPH CWG</b>													
<b>Aliphatics</b>													
>C5-C6 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 <sup>#M</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 <sup>#M</sup>	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 <sup>#M</sup>	<7	<7	8	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
<b>Aromatics</b>													
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21	<7	26	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35	<7	23	<7	<7	<7	31	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	<19	49	<19	<19	<19	31	<19	<19	<19	<19	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	<38	49	<38	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/PM16
<b>MTBE <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
<b>Benzene <sup>#</sup></b>													
	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

Please include all sections of this report if it is reproduced

**Client Name:** Smith Grant LLP  
**Reference:** R1742B  
**Location:** Heyford(Dorchester)  
**Contact:** Dan Wayland  
**JE Job No.:** 14/9392

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	61-62	63-64	65-66	67-68	69-70	71-72	73-74	75-76	77-78	79-80	Please see attached notes for all abbreviations and acronyms		
Sample ID	D1B-SS26	D1B-SS27	D1B-SS28	D1B-SS29	D1B-SS30	D1B-SS31	D1B-SS32	D1B-SS33	D1B-SS34	D1B-SS35	LOD/LOR	Units	Method No.
Depth	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4	0-0.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014	18/08/2014			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014	19/08/2014			
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	11.7	14.0	9.5	8.1	11.5	8.0	10.9	14.2	14.2	13.5	<0.1	%	PM4/PM0
Hexavalent Chromium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM76
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	2.5	0.7	1.3	0.5	3.0	0.6	1.0	1.3	1.6	0.8	<0.2	%	TM21/PM24
Electrical Conductivity @25C (5:1 ext)	229	156	498	<100	142	837	416	253	136	183	<100	uS/cm	TM76/PM58
pH #M	8.44	8.62	8.00	8.62	8.51	8.81	8.80	8.10	8.52	8.85	<0.01	pH units	TM73/PM11
Sample Type	Clay	Clay	Clay	Clay	Clay	Clayey Sand	Clay	Clay	Clay	Clay		None	PM13/PM0
Sample Colour	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Light Brown	Light Brown	Medium Brown	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	stones	stones	stones, sand and clinker	stones and sand	stones	stones	stones	stones	stones	stones		None	PM13/PM0
Mass of Dry Sample	-	-	-	-	-	-	-	-	-	-	<0.1	g	PM4/PM0



# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 14/9392

## SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

## WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory . It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

## NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

**ABBREVIATIONS and ACRONYMS USED**

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
OC	Outside Calibration Range
A	x10 Dilution
D	x20 Dilution

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes		AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes	Yes	AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation			AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation	Yes	Yes	AR	Yes
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	Yes
PM13	Soil Typing for MCERTS	PM0	No preparation is required.			AR	
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM21	TOC and TC by Combustion	PM24	Eltra preparation			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of dried and crushed solid samples using Aqua Regia reflux.	Yes	Yes	AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes		AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes	Yes	AR	Yes
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM76	As received samples are extracted using Sodium Hydroxide			AR	Yes
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	

JE Job No: 14/9392

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes	Yes	AR	No
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes	Yes	AD	Yes
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	Yes
TM76	Electrical Conductivity by Metrohm	PM58	Preparation of sample for Electrical Conductivity			AD	Yes
TM89	In-house method based on USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. ISO17025 accredited method for soils and waters and MCERTS on soils. Accreditation is matrix specific.	PM45	Cyanide & Thiocyanate prep for soils			AR	Yes





# Jones Environmental Laboratory

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**Attention :** Gareth Carroll  
**Date :** 20th December, 2013  
**Your reference :** R1742  
**Our reference :** Test Report 13/11463 Batch 1  
**Location :** Upper Heyford  
**Date samples received :** 6th December, 2013  
**Status :** Final report  
**Issue :** 1

Seventeen samples were received for analysis on 6th December, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

## Compiled By:

**Phil Sommerton BSc**  
**Project Manager**

**Bob Millward BSc FRSC**  
**Principal Chemist**

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742  
**Location:** Upper Heyford  
**Contact:** Gareth Carroll  
**JE Job No.:** 13/11463

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1	2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	Please see attached notes for all abbreviations and acronyms		
Sample ID	STONE 1	STONE 2	PLOT 51-SS1	PLOT 51-SS2	PLOT 51-SS3	PLOT 70-SS1	PLOT 70-SS2	PLOT 46-SS1	PLOT 149-SS1	PLOT 149-SS2			
Depth			0.43	0.5	0.4	0.35	0.4	0.5	0.45	0.4			
COC No / misc													
Containers	T	T	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	LOD	Units	Method No.
Arsenic <sup>#M</sup>	-	-	21.8	38.4	-	22.1	23.1	19.0	20.1	-	<0.5	mg/kg	TM30/PM15
Arsenic	-	-	-	-	16.3	-	-	-	-	27.4	<0.5	mg/kg	TM30/PM62
Barium <sup>#M</sup>	-	-	226	74	-	97	93	71	87	-	<1	mg/kg	TM30/PM15
Barium	-	-	-	-	140	-	-	-	-	104	<1	mg/kg	TM30/PM62
Beryllium	-	-	1.6	1.5	-	1.4	1.5	1.2	1.3	-	<0.5	mg/kg	TM30/PM15
Beryllium	-	-	-	-	1.1	-	-	-	-	1.5	<0.5	mg/kg	TM30/PM62
Cadmium <sup>#M</sup>	-	-	0.2	0.2	-	0.3	0.3	0.3	0.3	-	<0.1	mg/kg	TM30/PM15
Cadmium	-	-	-	-	0.2	-	-	-	-	0.2	<0.1	mg/kg	TM30/PM62
Chromium <sup>#M</sup>	-	-	28.2	34.9	-	37.6	37.3	29.4	36.9	-	<0.5	mg/kg	TM30/PM15
Chromium	-	-	-	-	19.5	-	-	-	-	33.0	<0.5	mg/kg	TM30/PM62
Cobalt <sup>#M</sup>	-	-	11.6	13.0	-	12.6	12.5	9.5	12.2	-	<0.5	mg/kg	TM30/PM15
Cobalt	-	-	-	-	8.4	-	-	-	-	12.5	<0.5	mg/kg	TM30/PM62
Copper <sup>#M</sup>	-	-	209	2	-	6	5	4	6	-	<1	mg/kg	TM30/PM15
Copper	-	-	-	-	32	-	-	-	-	14	<1	mg/kg	TM30/PM62
Lead <sup>#M</sup>	-	-	18	15	-	27	21	15	26	-	<5	mg/kg	TM30/PM15
Lead	-	-	-	-	38	-	-	-	-	31	<5	mg/kg	TM30/PM62
Mercury <sup>#M</sup>	-	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	mg/kg	TM30/PM15
Mercury	-	-	-	-	<0.1	-	-	-	-	<0.1	<0.1	mg/kg	TM30/PM62
Molybdenum <sup>#M</sup>	-	-	2.8	3.7	-	1.8	1.7	1.5	1.5	-	<0.1	mg/kg	TM30/PM15
Molybdenum	-	-	-	-	1.7	-	-	-	-	1.4	<0.1	mg/kg	TM30/PM62
Nickel <sup>#M</sup>	-	-	25.6	29.2	-	25.6	26.7	21.1	24.5	-	<0.7	mg/kg	TM30/PM15
Nickel	-	-	-	-	17.6	-	-	-	-	26.0	<0.7	mg/kg	TM30/PM62
Selenium <sup>#M</sup>	-	-	<1	<1	-	<1	<1	<1	<1	-	<1	mg/kg	TM30/PM15
Selenium	-	-	-	-	<1	-	-	-	-	<1	<1	mg/kg	TM30/PM62
Vanadium	-	-	69	79	-	77	81	68	74	-	<1	mg/kg	TM30/PM15
Vanadium	-	-	-	-	58	-	-	-	-	79	<1	mg/kg	TM30/PM62
Water Soluble Boron <sup>#M</sup>	-	-	1.8	1.7	-	2.3	1.8	1.6	1.8	-	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	-	-	-	-	1.6	-	-	-	-	2.6	<0.1	mg/kg	TM74/PM61
Zinc <sup>#M</sup>	-	-	54	60	-	78	70	53	63	-	<5	mg/kg	TM30/PM15
Zinc	-	-	-	-	67	-	-	-	-	87	<5	mg/kg	TM30/PM62

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742  
**Location:** Upper Heyford  
**Contact:** Gareth Carroll  
**JE Job No.:** 13/11463

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1	2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	Please see attached notes for all abbreviations and acronyms		
Sample ID	STONE 1	STONE 2	PLOT 51-SS1	PLOT 51-SS2	PLOT 51-SS3	PLOT 70-SS1	PLOT 70-SS2	PLOT 46-SS1	PLOT 149-SS1	PLOT 149-SS2			
Depth			0.43	0.5	0.4	0.35	0.4	0.5	0.45	0.4			
COC No / misc													
Containers	T	T	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	LOD	Units	Method No.
<b>PAH MS</b>													
Naphthalene #M	-	-	0.09	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	-	-	0.13	<0.03	0.12	<0.03	0.15	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #M	-	-	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene #M	-	-	0.13	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene #M	-	-	4.25	<0.03	2.07	0.34	0.14	0.20	0.14	0.31	<0.03	mg/kg	TM4/PM8
Anthracene #	-	-	1.09	<0.04	0.62	0.07	0.12	0.07	0.06	0.07	<0.04	mg/kg	TM4/PM8
Fluoranthene #M	-	-	4.74	0.03	5.35	0.81	0.59	0.36	0.40	0.81	<0.03	mg/kg	TM4/PM8
Pyrene #	-	-	3.60	<0.03	4.60	0.67	0.68	0.30	0.34	0.71	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	-	-	0.96	<0.06	1.66	0.21	0.26	0.10	0.14	0.30	<0.06	mg/kg	TM4/PM8
Chrysene #M	-	-	0.98	<0.02	1.76	0.23	0.28	0.10	0.14	0.36	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #M	-	-	1.40	<0.07	2.81	0.40	0.65	0.15	0.23	0.51	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	-	-	0.96	<0.04	1.90	0.23	0.48	0.09	0.13	0.31	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #M	-	-	0.46	<0.04	0.91	0.16	0.33	0.07	0.11	0.18	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	-	-	0.09	<0.04	0.21	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	-	-	0.44	<0.04	0.94	0.14	0.30	0.05	0.12	0.17	<0.04	mg/kg	TM4/PM8
PAH 16 Total	-	-	19.4	<0.6	23.1	3.3	4.0	1.5	1.8	3.7	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	-	-	1.01	<0.05	2.02	0.29	0.47	0.11	0.17	0.37	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	-	-	0.39	<0.02	0.79	0.11	0.18	0.04	0.06	0.14	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	-	-	104	106	106	87	106	99	103	104	<0	%	TM4/PM8
<b>TPH CWG</b>													
<b>Aliphatics</b>													
>C5-C6 #M	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 #M	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 #M	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 #M	-	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>C16-C21 #M	-	-	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>C21-C35 #M	-	-	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	-	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/TM36/PM12/PM16
<b>Aromatics</b>													
>C5-EC7	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #M	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #M	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #M	-	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16
>EC16-EC21 #M	-	-	14	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
>EC21-EC35 #M	-	-	25	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16
Total aromatics C5-35	-	-	39	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/TM36/PM12/PM16
Total aliphatics and aromatics(C5-35)	-	-	39	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/TM36/PM12/PM16
<b>MTBE #</b>													
MTBE #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
<b>Benzene #</b>													
Benzene #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12

Please include all sections of this report if it is reproduced

**Jones Environmental Laboratory**

**Client Name:** Smith Grant LLP  
**Reference:** R1742  
**Location:** Upper Heyford  
**Contact:** Gareth Carroll  
**JE Job No.:** 13/11463

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1	2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	Please see attached notes for all abbreviations and acronyms		
Sample ID	STONE 1	STONE 2	PLOT 51-SS1	PLOT 51-SS2	PLOT 51-SS3	PLOT 70-SS1	PLOT 70-SS2	PLOT 46-SS1	PLOT 149-SS1	PLOT 149-SS2			
Depth			0.43	0.5	0.4	0.35	0.4	0.5	0.45	0.4			
COC No / misc													
Containers	T	T	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013			
Sample Type	Solid	Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	LOD	Units	Method No.
Toluene #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
Ethylbenzene #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
m/p-Xylene #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
o-Xylene #	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12
PCBs (Total vs Aroclor 1254)	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	ug/kg	TM16/PM8
Natural Moisture Content	-	-	14.7	16.3	NDP	14.7	13.5	15.0	17.5	NDP	<0.1	%	PM4/PM0
Hexavalent Chromium	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	mg/kg	TM38/PM20
Chromium III	-	-	28.2	34.9	19.5	37.6	37.3	29.4	36.9	33.0	<0.5	mg/kg	NONE/NONE
Free Cyanide	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Complex Cyanide	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	TM89/PM45
Organic Matter	-	-	9.7	1.0	NDP	2.1	1.2	1.2	1.6	NDP	<0.2	%	TM21/PM24
pH #M	-	-	8.18	8.01	8.45	7.60	7.79	7.89	7.89	7.88	<0.01	pH units	TM73/PM11
Sample Type	Clayey Loam	Clayey Loam	Clayey Loam	Clay	Clayey Loam	Clayey Sand	Clayey Sand	Clayey Sand	Clay	Clayey Sand		None	PM13/PM0
Sample Colour	Medium Grey	Medium Grey	Medium Brown	Orange	Medium Brown	Orange	Orange	Orange	Medium Brown	Medium Brown		None	PM13/PM0
Other Items	MOSTLY STONES	MOSTLY STONES	stones	stones	stones	vegetation	stones	stones	sand, stones	roots, stones		None	PM13/PM0



**Client Name:** Smith Grant LLP  
**Reference:** R1742  
**Location:** Upper Heyford  
**Contact:** Gareth Carroll  
**JE Job No.:** 13/11463

**Report :** Solid

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	19-20	21-22	23-24	25-26	27-28	29-30	31-32																											
Sample ID	PLOT 149-SS3	PLOT 459-SS1	PLOT 459-SS2	PLOT 459-SS3	PLOT 70-TS1	PLOT 46-TS2	PLOT 46-TS1																											
Depth	0.3	0.4	0.4	0.4	0.4																													
COC No / misc																																		
Containers	V J	V J	V J	V J	V J	V J	V J																											
Sample Date	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013	05/12/2013																											
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil																											
Batch Number	1	1	1	1	1	1	1																											
Date of Receipt	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013	06/12/2013																											
												LOD	Units	Method No.																				
<b>PAH MS</b>																																		
Naphthalene <sup>#M</sup>	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	0.04	<0.03	<0.03	<0.03	mg/kg	TM4/PM8																				
Acenaphthene <sup>#M</sup>	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8																				
Fluorene <sup>#M</sup>	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Phenanthrene <sup>#M</sup>	0.31	0.27	0.20	0.06	0.14	0.29	0.22	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8																				
Anthracene <sup>#</sup>	0.09	0.05	0.05	<0.04	0.05	0.09	0.09	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Fluoranthene <sup>#M</sup>	0.88	0.55	0.36	0.09	0.49	0.92	0.45	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8																				
Pyrene <sup>#</sup>	0.80	0.47	0.32	0.09	0.41	0.79	0.39	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	TM4/PM8																				
Benzo(a)anthracene <sup>#</sup>	0.24	0.17	0.09	<0.06	0.28	0.48	0.26	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	TM4/PM8																				
Chrysene <sup>#M</sup>	0.26	0.15	0.09	0.03	0.31	0.55	0.27	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8																				
Benzo(bk)fluoranthene <sup>#M</sup>	0.39	0.22	0.12	<0.07	0.55	0.97	0.47	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	TM4/PM8																				
Benzo(a)pyrene <sup>#</sup>	0.24	0.12	0.06	<0.04	0.38	0.63	0.30	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Indeno(123cd)pyrene <sup>#M</sup>	0.14	0.10	0.05	<0.04	0.25	0.47	0.22	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Dibenzo(ah)anthracene <sup>#</sup>	<0.04	<0.04	<0.04	<0.04	0.05	0.11	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
Benzo(ghi)perylene <sup>#</sup>	0.13	0.10	0.05	<0.04	0.23	0.39	0.19	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	TM4/PM8																				
PAH 16 Total	3.5	2.2	1.4	<0.6	3.1	5.7	3.0	<0.6	<0.6	<0.6	<0.6	<0.6	mg/kg	TM4/PM8																				
Benzo(b)fluoranthene	0.28	0.16	0.09	<0.05	0.40	0.70	0.34	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	TM4/PM8																				
Benzo(k)fluoranthene	0.11	0.06	0.03	<0.02	0.15	0.27	0.13	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	TM4/PM8																				
PAH Surrogate % Recovery	106	95	102	88	99	91	107	<0	<0	<0	<0	<0	%	TM4/PM8																				
<b>TPH CWG</b>																																		
<b>Aliphatics</b>																																		
>C5-C6 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>C6-C8 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>C8-C10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>C10-C12 <sup>#M</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16																				
>C12-C16 <sup>#M</sup>	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16																				
>C16-C21 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16																				
>C21-C35 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16																				
Total aliphatics C5-35	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM16																				
<b>Aromatics</b>																																		
>C5-EC7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>EC7-EC8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>EC8-EC10 <sup>#M</sup>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM36/PM12																				
>EC10-EC12 <sup>#M</sup>	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	TM5/PM16																				
>EC12-EC16 <sup>#M</sup>	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	mg/kg	TM5/PM16																				
>EC16-EC21 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16																				
>EC21-EC35 <sup>#M</sup>	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	mg/kg	TM5/PM16																				
Total aromatics C5-35	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	mg/kg	TM5/PM16																				
Total aliphatics and aromatics(C5-35)	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	mg/kg	TM5/PM16																				
MTBE <sup>#</sup>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12																				
Benzene <sup>#</sup>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	ug/kg	TM31/PM12																				

Please see attached notes for all abbreviations and acronyms



**Client Name:** Smith Grant LLP  
**Reference:** R1742  
**Location:** Upper Heyford  
**Contact:** Gareth Carroll

**Note:**

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

*Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.*

*If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.*

Signed on behalf of Jones Environmental Laboratory:



Gemma Newsome  
 Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Description	Asbestos Containing Material	Asbestos Results	Asbestos Level	Comments
13/11463	1	STONE 1		1	09/12/13	Soil-Silt/Brick/Stone	None	NAD	NAD	
13/11463	1	STONE 2		2	09/12/13	Soil-Silt/Clay/Brick/Stone	Free Fibres	Chrysotile	Trace	
13/11463	1	PLOT 51-SS1	0.43	4	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg/MMMF	None	NAD	NAD	
13/11463	1	PLOT 51-SS2	0.5	6	17/12/13	soil/stones	None	NAD	NAD	
13/11463	1	PLOT 51-SS3	0.4	8	17/12/13	soil/stones	Free Fibres	Chrysotile, Crocidolite	Quantifiable	
13/11463	1	PLOT 70-SS1	0.35	10	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg	None	NAD	NAD	
13/11463	1	PLOT 70-SS2	0.4	12	17/12/13	soil/stones	None	NAD	NAD	
13/11463	1	PLOT 46-SS1	0.5	14	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg	None	NAD	NAD	
13/11463	1	PLOT 149-SS1	0.45	16	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg	None	NAD	NAD	
13/11463	1	PLOT 149-SS2	0.4	18	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg	Asbestos Insulating Board	Chrysotile	Quantifiable	
13/11463	1	PLOT 149-SS3	0.3	20	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg	Asbestos Insulating Board	Chrysotile	Quantifiable	
13/11463	1	PLOT 459-SS1	0.4	22	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg/MMMF	None	NAD	NAD	
13/11463	1	PLOT 459-SS2	0.4	24	17/12/13	soil/stones	None	NAD	NAD	
13/11463	1	PLOT 459-SS3	0.4	26	17/12/13	Soil-Silt/Clay/Brick/Stone/Veg/MMMF	None	NAD	NAD	









## NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/11463

### SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

### WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory. It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

### DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

### SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

### NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

**ABBREVIATIONS and ACRONYMS USED**

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
OC	Outside Calibration Range
NFD	No Fibres Detected

JE Job No: 13/11463

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes		AR	Yes
TM4	16 PAH by GC-MS, modified USEPA 8270	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.	Yes	Yes	AR	Yes
TM5	In-House method based on USEPA 8015B. Determination of Extractable Petroleum Hydrocarbons (EPH) in the carbon chain length range of C8-40 by GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS (carbon banding only) on soils. All accreditation is matrix specific.	PM16	Aliphatic/Aromatic fractionation	Yes	Yes	AR	Yes
TM5/TM36	TPH CWG by GC-FID	PM12/PM16	CWG GC-FID			AR	Yes
PM13	Soil Typing for MCERTS	PM0	No preparation is required.			AR	
TM16	In-House method based on USEPA 8270. Determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS. Accredited to ISO 17025 for waters. All accreditation is matrix specific. Quantification by Internal Standard method.	PM8	In-house method based on USEPA 3510. ISO 17025 accredited extraction method for organic extraction from solid samples using an end over end agitator.			AR	Yes
TM21	TOC and TC by Combustion	PM24	Eltra preparation			AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of water samples and analysis by ICP-OES as per method TM030S. ISO 17025 and MCERTS accredited extraction method. All accreditation is matrix specific			AD	Yes

JE Job No: 13/11463

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Reported on dry weight basis
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM15	In-house method based on USEPA 3010A. Acid digestion of water samples and analysis by ICP-OES as per method TM030S. ISO 17025 and MCERTS accredited extraction method. All accreditation is matrix specific	Yes	Yes	AD	Yes
TM30	Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry) using Thermo iCAP 6000 series instrument. Accredited to ISO 17025 for soils and waters and MCERTS accredited for Soils. All accreditation is matrix specific.	PM62	Aqua Regia extraction (Soils) (as received sample)			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM31	In-house method based on USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID. Accredited to ISO 17025 for soils and waters and MCERTS accredited for soils. Accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes		AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific			AR	Yes
TM36	In-House method based on USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-12 by headspace GC-FID. Accredited to ISO 17025 on soil and water samples and MCERTS accredited (carbon banding only) on soils. All accreditation is matrix specific.	PM12	In-house method based on USEPA 5021. Preparation of solid and liquid samples for headspace analysis. Samples are spiked with surrogates to facilitate quantification. ISO 17025 accredited extraction method. All accreditation is matrix specific	Yes	Yes	AR	Yes
TM38	Ionic analysis using the Thermo Aquakem Photometric Automatic Analyser. Accredited to ISO17025 and MCERTS for most analytes. All accreditation is matrix specific.	PM20	in-house method based on USEPA 1311 (TCLP). Solid samples are extracted with two parts de-ionised water to one part solid material for analysis of the extract for various parameters.			AR	Yes
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres			AR	
TM65	Asbestos Bulk Identification	PM42	Screening of soils for fibres	Yes		AR	
TM73	pH in by Metrohm	PM11	1:2.5 soil/water extraction	Yes	Yes	AR	No

JE Job No: 13/11463

Test Method No.	Description	Prep Method No. (if appropriate)	Description	UKAS	MCERTS (soils only)	Analysis done on As Received (AR) or Air Dried (AD)	Reported on dry weight basis
TM74	Water Soluble Boron by ICP-OES	PM32	Preparation of soils for WSB	Yes	Yes	AD	Yes
TM74	Water Soluble Boron by ICP-OES	PM61	Preparation of soils for WSB (as received sample)			AR	Yes
TM89	In-house method based on USEPA method OIA-1667. Determination of cyanide by Flow Injection Analyser. ISO17025 accredited method for soils and waters and MCERTS on soils. Accreditation is matrix specific.	PM45	Cyanide & Thiocyanate prep for soils			AR	Yes
NONE	No Method Code	NONE	No Method Code				Yes



## **APPENDIX D**

### **Statistical Analysis**

Job name	Heyford: Dorchester D1B:Area 2
Job no.	R1742
Date:	29.11.15
Author:	DW
Laboratory:	Jones
Lab. Reference:	14-9392, 14-11667, 14-12168, 14-12802



**PAH concentrations**

sample identity	SS9	SS16	SS27	SS37	SS38	SS41	SS62	SS64	SS66	SS68	SS69									
phenanthrene	0.24	4.53	6.74	42.64	0.63	1.59	1.91	2.02	1.73	9.42	0.67									
anthracene	0.09	1.37	1.98	14.49	0.27	0.56	0.7	0.71	0.5	2.72	0.17									
fluoranthene	0.95	5.22	8.23	77.02	2.21	3.02	4.21	4.03	4.19	9.21	1.91									
pyrene	0.79	3.98	6.67	59.42	1.93	2.42	3.34	3.36	3.26	7.1	1.5									
benz(a)anthracene	0.75	2.35	2.91	29.44	1.35	1.33	1.81	1.79	1.69	2.79	0.84									
chrysene	0.94	2.22	2.76	25.32	1.33	1.11	1.7	1.65	1.63	3.04	0.92									

PAH units      mg/kg

**PAH ratios**

phe/ant	2.667	3.307	3.404	2.943	2.333	2.839	2.729	2.845	3.460	3.463	3.941									
flu/pyr	1.203	1.312	1.234	1.296	1.145	1.248	1.260	1.199	1.285	1.297	1.273									
baa/chr	0.798	1.059	1.054	1.163	1.015	1.198	1.065	1.085	1.037	0.918	0.913									









