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21 July 2008

TEST REPORT

Our Report Number: 08-52377

Your Order Reference: N/A

4 soil samples received on 07/07/2008

Final instructions received on 08/07/2008

Project Name: Moat House

Project Code: ME50107

Laboratory analysis started on 08 July 2008
All laboratory analysis completed by 21 July 2008

Rexona Rahman
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Results contained herein relate only to the samples tested. Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report , including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

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Sample Description

Matrix: Soil
Project Name: Moat House

Job Number: 08-52377
Client: JNP Group
Project Code: ME50107

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
326287	WS3 ES1	0.5	-	Brown sandy clay with gravel
326288	WS3 ES2	1.2	-	Brown sandy clay with gravel
326289	WS5 ES1	0.6	-	Brown sandy clay with gravel
326290	WS5 ES2	1.2	-	Brown clay with gravel

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Table Of Results

Project Name: Moat House
Client : JNP Group

Job Number : 08-52377
Matrix : Soil
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Sample Reference	WS3 ES1	WS3 ES2	WS5 ES1	WS5 ES2		Method No	Units	LOD
Sample Depth (m)	**0.50**	**1.20**	**0.60**	**1.20**				
Date Sampled	**-**	**-**	**-**	**-**				
Date Scheduled	**07/07/08**	**07/07/08**	**07/07/08**	**07/07/08**				
Laboratory Reference No	**326287**	**326288**	**326289**	**326290**				
Analysis								
Moisture Content (Wet Weight)	9.3	10.3	15.9	17.1			%	0.1
Moisture Content (Dry Weight)	10.3	11.5	19.0	20.6			%	0.1
Arsenic	18	14	24	13		069S[IM]	mg/kg	3
Barium	140	110	220	120		069S[IM]	mg/kg	10
Beryllium	1.0	0.9	1.2	1.3		069S[IM]	mg/kg	0.5
Boron (W/S)	1.9	1.3	4.3	4.0		016S[IM]	mg/kg	0.5
Cadmium	0.8	0.6	1.8	0.8		069S[IM]	mg/kg	0.5
Chromium	16	16	17	14		069S[IM]	mg/kg	10
Copper	32	23	42	30		069S[IM]	mg/kg	5
Lead	110	40	240	74		069S[IM]	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6		069S[IM]	mg/kg	0.6
Nickel	20	20	22	18		069S[IM]	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5		069S[IM]	mg/kg	2.5
Vanadium	28	28	36	25		069S[IM]	mg/kg	3
Zinc	120	85	610	120		069S[IM]	mg/kg	10
* * RAPID TPH SUITE * *								
TPH (C8-C40)	-	< 25	-	< 25		065[IM]	mg/kg	25

[I] ISO 17025 accredited.
[M] MCERTS accredited for sand, loam and clay.

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Table Of Results

Project Name: Moat House
Client : JNP Group

Job Number : 08-52377
Matrix : Soil
Project Code: ME50107

Sample Reference	WS3 ES1	WS3 ES2	WS5 ES1	WS5 ES2		Method No	Units	LOD
Sample Depth (m)	0.50	1.20	0.60	1.20				
Date Sampled	-	-	-	-				
Date Scheduled	07/07/08	07/07/08	07/07/08	07/07/08				
Laboratory Reference No	326287	326288	326289	326290				
Analysis								
* * PAH SUITE * *								
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1		022S[IM]	mg/kg	0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1		022S[IM]	mg/kg	0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1		022S[IM]	mg/kg	0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1		022S[IM]	mg/kg	0.1
Phenanthrene	0.17	< 0.1	0.81	< 0.1		022S[IM]	mg/kg	0.1
Anthracene	< 0.1	< 0.1	0.13	< 0.1		022S[IM]	mg/kg	0.1
Fluoranthene	0.42	< 0.1	1.7	0.12		022S[IM]	mg/kg	0.1
Pyrene	0.39	< 0.1	1.4	0.11		022S[IM]	mg/kg	0.1
Benzo(a)anthracene	0.22	< 0.1	0.73	< 0.1		022S[IM]	mg/kg	0.1
Chrysene	0.24	< 0.1	0.82	< 0.1		022S[IM]	mg/kg	0.1
Benzo(b)fluoranthene	0.29	< 0.1	0.98	< 0.1		022S[IM]	mg/kg	0.1
Benzo(k)fluoranthene	< 0.1	< 0.1	0.36	< 0.1		022S[IM]	mg/kg	0.1
Benzo(a)pyrene	0.22	< 0.1	0.71	< 0.1		022S[IM]	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	0.11	< 0.1	0.38	< 0.1		022S[IM]	mg/kg	0.1
Dibenzo(a,h)anthracene	< 0.1	< 0.1	< 0.1	< 0.1		022S[IM]	mg/kg	0.1
Benzo(g,h,i)perylene	0.14	< 0.1	0.43	< 0.1		022S[IM]	mg/kg	0.1
PAH (Sum of EPA 16)	2.19	ND	8.42	ND		022S[I]	mg/kg	1.6

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Table Of Results

Project Name: Moat House
Client : JNP Group

Job Number : 08-52377
Matrix : Leachate
Project Code: ME50107

Sample Reference	WS3 ES1	WS5 ES1				Method No	Units	LOD
Sample Depth (m)	0.50	0.60						
Date Sampled	-	-						
Date Scheduled	07/07/08	07/07/08						
Laboratory Reference No	326287	326289						
Analysis								
Arsenic (Dissolved)	0.009	0.013				080L[I]	mg/l	0.005
Barium (Dissolved)	0.012	0.009				080L[I]	mg/l	0.005
Beryllium (Dissolved)	< 0.001	< 0.001				080L[I]	mg/l	0.001
Boron	0.049	0.16				080L[I]	mg/l	0.005
Cadmium (Dissolved)	< 0.001	< 0.001				080L[I]	mg/l	0.001
Chromium (Dissolved)	< 0.005	< 0.005				080L[I]	mg/l	0.005
Copper (Dissolved)	< 0.005	< 0.005				080L[I]	mg/l	0.005
Lead (Dissolved)	< 0.005	< 0.005				080L[I]	mg/l	0.005
Mercury (Dissolved)	< 0.00005	< 0.00005				080L[I]	mg/l	0.00005
Nickel (Dissolved)	< 0.005	< 0.005				080L[I]	mg/l	0.005
Selenium (Dissolved)	< 0.005	< 0.005				080L[I]	mg/l	0.005
Vanadium (Dissolved)	< 0.005	0.006				080L[I]	mg/l	0.005
Zinc (Dissolved)	0.007	0.015				080L[I]	mg/l	0.005

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Table Of Results

Project Name: Moat House
Client : JNP Group

Job Number : 08-52377
Matrix : Leachate
Project Code: ME50107

Sample Reference	WS3 ES2	WS5 ES2				Method No	Units	LOD
Sample Depth (m)	1.20	1.20						
Date Sampled	-	-						
Date Scheduled	07/07/08	07/07/08						
Laboratory Reference No	326288	326290						
Analysis								
* * PAH SUITE * *								
Naphthalene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Acenaphthylene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Acenaphthene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Fluorene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Phenanthrene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Anthracene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Fluoranthene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Pyrene	0.0006	< 0.0001				022L[I]	mg/l	0.0001
Benzo(a)anthracene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Chrysene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Benzo(b)fluoranthene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Benzo(k)fluoranthene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Benzo(a)pyrene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Indeno(1,2,3-cd)pyrene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Dibenzo(a,h)anthracene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
Benzo(g,h,i)perylene	< 0.0001	< 0.0001				022L[I]	mg/l	0.0001
PAH (Sum of EPA 16)	0.0006	ND				022L[I]	mg/l	0.0001

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Table Of Results - Appendix

Project Name: Moat House
Client : JNP Group

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Project Code: ME50107

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
065	In-house method	Determination of total petroleum hydrocarbons in soil samples using hexane:acetone extraction and GC-FID detection. Note: UKAS accreditation only applies to C8-C40 and excludes other carbon banding.	W
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
022L	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30º (+/-5) C.

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
ç	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
¤	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones