

FINAL ANALYTICAL TEST REPORT

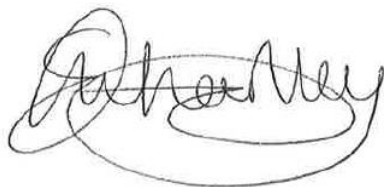
Envirolab Job Number: 18/08966
Issue Number: 1

Date: 02 November, 2018

Client: PP O'connor Ltd
Thames Trading Estate
Woodrow Way
Irlam
Manchester
M44 6NN

Project Manager: Tom Barr
Project Name: Angel Meadows
Project Ref: N/A
Order No: 28240
Date Samples Received: 26/10/18
Date Instructions Received: 29/10/18
Date Analysis Completed: 02/11/18

Prepared by:



Elisha Hartley
Admin Assistant

Approved by:



Georgia King
Admin & Client Services Supervisor

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Client Project Name: Angel Meadows

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Lab Sample ID	18/08966/1	18/08966/2	18/08966/3	18/08966/4	18/08966/5	18/08966/6	18/08966/7	18/08966/8	Units	Method ref
Client Sample No										
Client Sample ID	THA	THB	THW1	THW2	THW3	THW4	THW5	THW6		
Depth to Top	0.80	0.80	0.80	0.80	0.70	0.50	1.00	0.50		
Depth To Bottom	1.20	1.20	1.20	1.00	0.90	0.70	1.30	0.70		
Date Sampled	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	6	4AB	4AB	4	4A	4A	4A	4A		
% Stones >10mm _A	<0.1	<0.1	15.9	<0.1	<0.1	0.7	1.0	2.7	% w/w	A-T-044

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Client Sample ID	THA	THB	THW1	THW2	THW3	THW4	THW5	THW6		
Depth to Top	0.80	0.80	0.80	0.80	0.70	0.50	1.00	0.50		
Depth To Bottom	1.20	1.20	1.20	1.00	0.90	0.70	1.30	0.70		
Date Sampled	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	6	4AB	4AB	4	4A	4A	4A	4A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	-	-	-	-	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	-	-	-	-	-	-		

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Date Sampled	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	6	4AB	4AB	4	4A	4A	4A	4A		
PAH-16MS										
Acenaphthene _A ^{M#}	0.21	<0.01	-	-	-	-	-	-	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-019s
Anthracene _A ^{M#}	0.28	<0.02	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.36	<0.04	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.27	<0.04	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.34	<0.05	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.12	<0.05	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.11	<0.07	-	-	-	-	-	-	mg/kg	A-T-019s
Chrysene _A ^{M#}	0.40	<0.06	-	-	-	-	-	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	-	-	-	-	-	-	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	1.04	<0.08	-	-	-	-	-	-	mg/kg	A-T-019s
Fluorene _A ^{M#}	0.15	<0.01	-	-	-	-	-	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.13	<0.03	-	-	-	-	-	-	mg/kg	A-T-019s
Naphthalene _A ^{M#}	0.04	<0.03	-	-	-	-	-	-	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	1.15	<0.03	-	-	-	-	-	-	mg/kg	A-T-019s
Pyrene _A ^{M#}	0.89	<0.07	-	-	-	-	-	-	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	5.49	<0.08	-	-	-	-	-	-	mg/kg	A-T-019s

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Date Sampled	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18	26-Oct-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	6	4AB	4AB	4	4A	4A	4A	4A		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C8-C10 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Ali >C10-C12 _A [#]	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Ali >C12-C16 _A [#]	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Ali >C16-C21 _A [#]	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Ali >C21-C35 _A [#]	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Total Aliphatics _A	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Aro >C5-C7 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C8-C9 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C9-C10 _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
Aro >C10-C12 _A [#]	<0.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Aro >C12-C16 _A [#]	0.7	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Aro >C16-C21 _A [#]	1.8	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Aro >C21-C35 _A [#]	4.1	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
Total Aromatics _A	6.7	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
TPH (Ali & Aro) _A	6.7	<0.1	-	-	-	-	-	-	mg/kg	A-T-023s
BTEX - Benzene _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	-	-	-	-	-	-	mg/kg	A-T-022s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.