



APPENDIX 'B'

Laboratory Test Data

**UNDRAINED TRIAXIAL
COMPRESSION TEST****LOCATION** 52 Holmes Road, London, NW5 3AB

BH/TP No.	MOISTURE CONTENT %	BULK DENSITY Mg/m ³	LATERAL PRESSURE kN/m ²	COMPRESSIVE STRENGTH kN/m ²	COHESION kN/m ²	ANGLE OF SHEARING RESISTANCE degrees	DEPTH m
BH1	32	1.90	50	137	69		2.25
	28	1.95	80	161	80		4.25
	27	1.98	130	222	111		6.75
	24	1.94	190	349	175		9.75
	27	2.04	250	391	196		12.75
	28	2.00	310	397	198		15.75

Table 1



**PLASTICITY INDEX &
MOISTURE CONTENT
DETERMINATIONS**

LOCATION 52 Holmes Road, London, NW5 3AB

BH/TP No.	Depth m	Natural Moisture %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 425 µm %	Class
BH1	3.00	32	65	23	42	100	CH
	3.75	28	67	27	40	100	CH
BH2	3.50	25	59	23	36	100	CH
	4.00	27	66	25	41	100	CH

Table 2



**SULPHATE & pH
DETERMINATIONS**

LOCATION 52 Holmes Road, London, NW5 3AB

BH/TP No.	DEPTH BELOW GL m	SOIL SULPHATES AS SO ₄		WATER SULPHATES AS SO ₄		pH	CLASS	SOIL - 2mm %
		TOTAL %	WATER SOL g/l	g/l				
BH1	5.00		1.75			5.5	DS-3	100
	11.00		0.90			6.1	DS-2	100
	16.50		0.57			6.2	DS-2	100
BH2	3.00		2.63			6.0	DS-3	100
	9.00		1.18			6.0	DS-2	100

Classification – Tables C1 and C2 : BRE Special Digest 1 : 2005

Table 3



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Analytical Report Number : 16-22356

Project / Site name:	52 Holmes Road, London, NW5 3AB	Samples received on:	11/07/2016
Your job number:	16-25450	Samples instructed on:	11/07/2016
Your order number:	22896	Analysis completed by:	18/07/2016
Report Issue Number:	1	Report issued on:	18/07/2016
Samples Analysed:	1 bulk sample - 5 soil samples		

Signed: 

Dr Irma Doyle
 Senior Account Manager
 For & on behalf of i2 Analytical Ltd.

Signed: 

Emma Winter
 Assistant Reporting Manager
 For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are:

soils - 4 weeks from reporting
 leachates - 2 weeks from reporting
 waters - 2 weeks from reporting
 asbestos - 6 months from reporting

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4041



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Environmental Science

Analytical Report Number: 16-22356

Project / Site name: 52 Holmes Road, London, NW5 3AB

Your Order No: 22896

Lab Sample Number	599768	599769	599770	599771	599772			
Sample Reference	BH1	BH2	BH3A	TP2	TP3			
Sample Number	D1	D2	D1	D1	D2			
Depth (m)	0.25	0.50	0.25	0.25	0.40			
Date Sampled	11/07/2016	11/07/2016	11/07/2016	11/07/2016	11/07/2016			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Moisture Content	%	N/A	NONE	8.2	12	8.1	10	20
Total mass of sample received	kg	0.001	NONE	0.62	0.57	0.57	0.52	0.34

Whole Sample Crushed		N/A	NONE	Crushed	Crushed	Crushed	Crushed	Crushed
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Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	Chrysotile & Amosite & Crocidolite	Chrysotile	Chrysotile	Chrysotile
Asbestos in Soil Screen	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.002	0.016	0.002	0.005	0.003
Asbestos Quantification Total	%	0.001	ISO 17025	0.002	0.016	0.002	0.005	0.003

General Inorganics

	pH Units	N/A	MCERTS	10.9	9.8	10.8	10.0	9.1
Total Cyanide	mg/kg	1	MCERTS	< 1	4	1	62	< 1
Complex Cyanide	mg/kg	1	MCERTS	< 1	4	1	61	< 1
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	4300	21000	8000	8900	2400
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.65	2.0	1.1	1.9	0.90
Sulphide	mg/kg	1	MCERTS	1.1	5.4	1.1	1.4	< 1.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.2	< 0.1	< 0.1	0.4	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.22	1.2	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.59	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.38	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.59	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.23	0.81	8.2	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.22	1.8	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.52	1.1	13	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.43	0.93	11	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.26	0.72	6.0	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.72	5.7	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.54	5.7	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.56	4.4	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.23	0.66	6.0	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.28	3.4	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.50	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.36	4.4	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	1.96	7.12	72.6	< 1.60
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Environmental Sciences

Analytical Report Number: 16-22356

Project / Site name: 52 Holmes Road, London, NWS 3AB

Your Order No: 22896

Lab Sample Number	599768		599769		599770		599771		599772	
Sample Reference	BH1		BH2		BH3A		TP2		TP3	
Sample Number	D1		D2		D1		D1		D2	
Depth (m)	0.25		0.50		0.25		0.25		0.40	
Date Sampled	11/07/2016		11/07/2016		11/07/2016		11/07/2016		11/07/2016	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							

Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status	599768	599769	599770	599771	599772
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	10	14	23	10
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.72	0.99	0.66	1.1	1.1
Boron (total)	mg/kg	1	MCERTS	12	21	13	20	19
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	27	26	26	49
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	19	28	64	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	66	450	95	170	71
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.5	0.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	18	15	29	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.4	1.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	38	40	35	52	84
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	150	170	200	86

Monoaromatics

Compound	Units	Limit of detection	Accreditation Status	599768	599769	599770	599771	599772
Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic > EC5 - EC6	mg/kg	Limit of detection	Accreditation Status	599768	599769	599770	599771	599772
TPH-CWG - Aliphatic > EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic > EC12 - EC16	mg/kg	2	MCERTS	2.5	< 2.0	< 2.0	4.2	< 2.0
TPH-CWG - Aliphatic > EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	8.1	< 8.0
TPH-CWG - Aliphatic > EC21 - EC35	mg/kg	8	MCERTS	39	13	13	22	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	48	14	16	35	< 10

TPH-CWG - Aromatic > EC5 - EC7	mg/kg	Limit of detection	Accreditation Status	599768	599769	599770	599771	599772
TPH-CWG - Aromatic > EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic > EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic > EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	2.4	2.6	1.8
TPH-CWG - Aromatic > EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	4.1	12	< 2.0
TPH-CWG - Aromatic > EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	20	130	< 10
TPH-CWG - Aromatic > EC21 - EC35	mg/kg	10	MCERTS	110	30	64	260	11
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	120	36	91	400	22



Analytical Report Number: 16-22356
Project / Site name: 52 Holmes Road, London, NW5 3AB
Your Order No: 22896

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
599768	BH1	0.25	154	Loose Fibres & Hard/Cement Type Material	Chrysotile	0.002	0.002
599769	BH2	0.50	156	Loose Fibres & Insulation Lagging & Hard/Cement Type Material	Chrysotile & Amosite & Crocidolite	0.016	0.016
599770	BH3A	0.25	103	Hard/Cement Type Material	Chrysotile	0.002	0.002
599771	TP2	0.25	126	Loose Fibres & Hard/Cement Type Material	Chrysotile	0.005	0.005
599772	TP3	0.40	114	Loose Fibres & Insulation Lagging	Chrysotile	0.003	0.003

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation



Analytical Report Number: 16-22356

Project / Site name: 52 Holmes Road, London, NW5 3AB

Lab Sample Number				602191				
Sample Reference				BH3A				
Sample Number				D1				
Depth (m)				0.25				
Date Sampled				11/07/2016				
Time Taken				None Supplied				
Analytical Parameter (Bulk Analysis)	Units	Limit of detection	Accreditation Status					
Asbestos Identification Name	Type	N/A	ISO 17025	Chrysotile-Hard/Cement Type Material				



4041



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Analytical Report Number : 16-22356**Project / Site name: 52 Holmes Road, London, NW5 3AB**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
599768	BH1	D1	0.25	Brown sandy clay with rubble.
599769	BH2	D2	0.50	Light brown clay and sand with rubble.
599770	BH3A	D1	0.25	Light brown sandy loam with rubble.
599771	TP2	D1	0.25	Grey sandy loam with gravel and stones.
599772	TP3	D2	0.40	Brown clay.



4041



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**Analytical Report Number : 16-22356****Project / Site name: 52 Holmes Road, London, NW5 3AB****Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos Identification in Bulks	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	W	ISO 17025
Asbestos Quantification - Gravimetric	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Crush Whole Sample	Either: Client specific preparation instructions - sample(s) crushed whole prior to analysis; OR Sample unsuitable for standard preparation and therefore crushed whole prior to analysis.	In house method, applicable to dry samples only.	L019-UK	D	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals In Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS



4041



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**Analytical Report Number : 16-22356****Project / Site name: 52 Holmes Road, London, NW5 3AB****Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)**

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.



APPENDIX 'C'

Statistical Analysis

Test Results

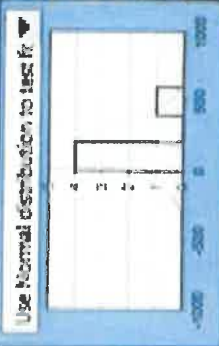
Client ref: 52 Holmes Road Site ref:
Project ref: 1625450

Data description:

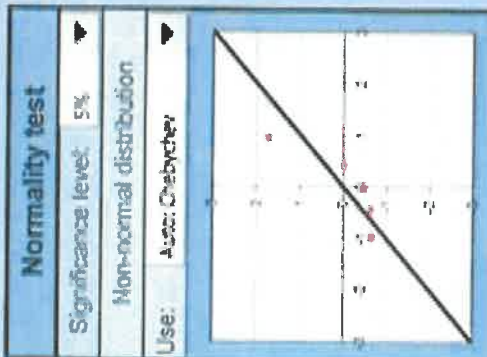
Date: 17-Aug-2016

User details: A Davidson

Dataset:	Pb
Sample mean, \bar{x}	170.4
Sample standard deviation, s	161.74
Sample size, n	5
Critical concentration, Cc	310



Outliers & non-detects	
Outliers present?	YES
Significance level	5% ▼
Outliers removed?	0
Non-detects	0



Test scenario: Pairing: μ true mean lower than critical concentration: $\mu < Cc$ ▼

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq Cc$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < Cc$

Evidence against Null hypothesis:	73%
Base decision on:	evidence level ▼
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	No

Not enough evidence

[Back to data](#)

[Back to summary](#)

[Go to outlier test](#)

[Go to normality test](#)

Test Results

Client/client ref. 52 Holmes Road Site ref.
Project ref. 1625450 Data description:

Date: 17-Aug-2016

User details: A Davidson

Dataset: CN	
Sample mean, \bar{x}	13.6
Sample standard deviation, s	27.096
Sample size, n	5
Critical concentration, C_c	20

Use Normal distribution to test μ

Outliers & non-detects

Outliers present?	YES
Significance level	5%
Outliers removed?	0
Non-detects	2

Normality test

Significance level: 5%

Non-normal distribution

Use: Auto Chebyshev

Test scenario: Sampling is true mean lower than critical concentration: $\mu < C_c$

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$

Evidence against Null hypothesis:

Base decision on:	evidence level	22%
Evidence level required:		95%
Balance of probability?		N/A
Reject Null Hypothesis?		No

$\mu < C_c$

[Back to data](#)

[Back to summary](#)

[Go to outlier test](#)

[Go to normality test](#)

Test Results

Client/client ref: 52 Holmes Road Site ref:
Project ref: 1625450 Data description:

Date: 17-Aug-2016
User details: A Davidson

Dataset:	5aP
Sample mean, \bar{X}	1.398
Sample standard deviation, s	2.5846
Sample size, n	5
Critical concentration, C_c	3.2

Use Normal distribution to test it: 

Outliers & non-detects	
Outliers present?	YES
Significance level	5% ▼
Outliers removed?	0
Non-detects	2

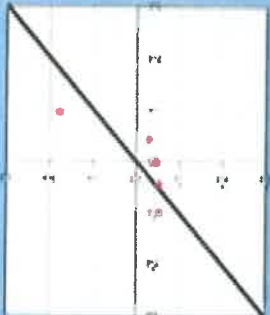


Normality test

Significance level: 5% ▼

Non-normal distribution

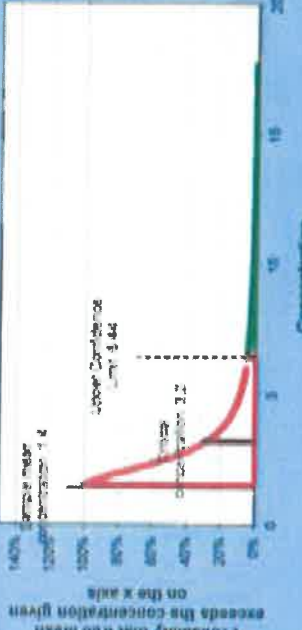
Use: Auto: Chebychev



Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$) ▼

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$



Evidence against Null hypothesis:	71%
Base decision on:	evidence level ▼
Evidence level required:	95%
Balance of probability?	N/A
Reject Null Hypothesis?	No
Not enough evidence	

[Back to data](#)

[Back to summary](#)

[Go to outlier test](#)

[Go to normality test](#)