

# Mr Keith Shaw

Houghwood Cottage Farm Stanley Road Staffordshire ST9 9LL

Dear Sir

#### Re: Proposed New Residence at Land Off Sutherland Road, Longsdon. ST9 9QD

At your request we have completed the Phase1 Preliminary Contaminated Land Risk Assessment for the proposed development.

This report must be read in conjunction with the Phase1 Preliminary Contaminated Land Risk Assessment Report issued as two separate volumes.

#### SITE SETTING

The development plot comprises a generally rectangular flat rained platform constructed of historically placed quarry waste. The granular fill came from excavation of the adjacent sandstone quarries. It is our understanding that the quarries supplied building stone for the local area.

#### FINDINGS

At the time of the walkover site inspection, you had completed four shallow trial pits for the infiltration test assessment. The trial pits showed very thin naturally formed organic surface layer composed of decayed leaves populated with moss and grass.

The exposed soils at depth (to 1.0m) comprises the quarry waste of granular fill "sandy fine-coarse gravelly Cobble and small Boulders". These materials are free draining.

At TP3 there was a light coloured layer at very shallow depth from which a single Environmental Soil (ES) sample was taken.

It was considered that there was a low risk of contamination at the site but to ensure compliance with NPPF the sample recovered was tested to assess contamination risk.

#### TESTING

The sample recovered was sent to Concept Life Sciences Ltd for the following analytical tests:

Date Received: 01-Feb-2018 Logged in: 01-February-2018 Report due: 15-February-2018 Duration(days): 10

Project ID Purchase Order Project Site Customer Reference Land Off Sutherland Road, Longsdon 18-1048

Soil

| • | Our<br>Iumber | Sample<br>Type | Sample<br>Class | Sample<br>Condition | Customer<br>Reference | Bottom<br>Depth | Date<br>Sampled | Depth | Time<br>Sampled | MCERTS<br>Preparation<br>(Group) | NFJ Suite<br>1<br>(Group) | NFJ Suite<br>3<br>(Group) | NFJ Suite<br>6<br>(Group) | Retained on<br>10mm sieve<br>(Grav) | Sample<br>Disposal<br>(N/A) |
|---|---------------|----------------|-----------------|---------------------|-----------------------|-----------------|-----------------|-------|-----------------|----------------------------------|---------------------------|---------------------------|---------------------------|-------------------------------------|-----------------------------|
|   | 1             | Soil           | Sandy Soil      | Ok                  | TP3 ES1               | 0.2             | 01-FEB-2018     | 0.1   | 11:00           | x                                | x                         | х                         | х                         | х                                   | x                           |

The suites have the following tests:

- Suite 1 CLEA Metals, Poly Aromatic Hydrocarbons, Cyanide, Phenon Soil Organic Matter and Non Metallic Analytes
- Suite 3 Total Petroleum Hydrocarbons
- Suite 6 Asbestos Fibres in Soil.

#### **PROPOSED DEVELOPMENT**

The following plan shows the proposed development.

The site development will have the soft landscaped areas on the west and east sides with the gravel surfaced parking area to the north.



#### **TEST RESULTS**

The assessment is undertaken using the LQM/CIEH Suitable for Use Limits (S4ULs) Generic Assessment Criteria for the CLEA Risk Model of Residential with No Home Grown Vegetables.

The following table summarise the results.

#### **CLEA Metals and Non-Metallic Analytes**

|                       | TP3 ES1<br>0.1-0.2m | N = value is<br>greater than GAC<br>Y = value is less<br>than GAC | 6% Soil Organic<br>Material LQM/CIEH |
|-----------------------|---------------------|---|--------------------------------------|
| Arsenic               | 4                   | Y   | 40                                   |
| Barium*               | 12                  |   |                                      |
| Beryllium             | <2                  | Y   | 1.7                                  |
| Boron (water-soluble) | <1                  | Y   | 11000                                |
| Cadmium               | <1                  | Y   | 85                                   |
| Chromium III          | 3                   | Y   | 910                                  |
| Chromium VI           | <1                  | Y   | 6                                    |
| Copper                | 19                  | Y   | 7100                                 |
| Lead                  | 61                  | Y   | 200 SP1010 pC4SL                     |
| Mercury               | <1                  | Y   | 1.2                                  |
| Nickel                | 2                   | Y   | 180                                  |
| Selenium              | <3                  | Y   | 430                                  |
| Vanadium              | 5                   | Y   | 1200                                 |
| Zinc                  | 8                   | Y   | 40000                                |
| SO4(Total) %          | 0.05                | Y   |                                      |
| Sulphide              | <10                 |   |                                      |
| Cyanide(Total)        | <1                  | Y   | 34 AtriskSoil                        |
| Phenols(Mono)         | <1                  | Y   | 2300                                 |
| рН                    | <4.0                | 5-9 *   |                                      |
| Soil Organic Matter   | 8.7                 |   |                                      |

It can be seen from the summary table that the metals are all less than the LQM/CIEH Suitable for Use Limits (S4ULs) Generic Assessment Criteria.

Of particular note is that the pH of the sample tested has a very low result of less than 4. There is the possibility that the organic material has a naturally high humic acid content giving the strongly acid result.

| 0.1-0.2m                |      | N = value is greater<br>thanGAC<br>Y = value is less<br>than GAC | 6% Soil Organic<br>Matter LQM/CIEH |          |  |
|-------------------------|------|--|------------------------------------|----------|--|
| Naphthalene             | <0.1 | Y  | 13                                 |          |  |
| Acenaphthylene          | <0.1 | Y  | <u>6000</u>                        | 506      |  |
| Acenaphthene            | <0.1 | Y  | <u>6000</u>                        | 336      |  |
| Fluorene                | <0.1 | Y  | <u>4500</u>                        | 183      |  |
| Phenanthrene            | <0.1 | Y  | 1500                               |          |  |
| Anthracene              | <0.1 | Y  | 37000                              |          |  |
| Fluoranthene            | <0.1 | Y  | 1600                               |          |  |
| Pyrene                  | <0.1 | Ν  | 3800                               |          |  |
| Benzo(a)Anthracene      | <0.1 | Y  | 15                                 |          |  |
| Chrysene                | <0.1 | Ν  | 32                                 |          |  |
| Benzo(b/k)Fluoranthene  | <0.1 | Y  | 4                                  |          |  |
| Denze(b/k)r laerantrene | <0.1 | •  | 110                                |          |  |
| Benzo(a)Pyrene          | <0.1 | Y  | 3.2                                |          |  |
| Indeno(123-cd)Pyrene    | <0.1 | Y  | 13                                 |          |  |
| Dibenzo(ah)Anthracene   | <0.1 | Y  | 0.32                               |          |  |
| Benzo(ghi)Perylene      | <0.1 | Y  | 360                                |          |  |
| PAH(total)              | <0.1 | Note: * Value exce<br>shown u                                    | eds saturation<br>nderlined        | on Limit |  |

The results are all less than the Laboratory Level of Detection.

#### **Total Petroleum Hydrocarbons**

The Total Petroleum Hydrocarbons value is very low:

| Determinand                  | Method | Test<br>Sample | LOD | Units |                    |
|------------------------------|--------|----------------|-----|-------|--------------------|
| Total Petroleum Hydrocarbons | Т8     | M105           | 1   | mg/kg | <sup>(13)</sup> 48 |

The concentration identified poses minimal risk to the development.

#### **Asbestos Fibres in Soil**

| Determinand | Method | Test<br>Sample | LOD | Units |      |
|-------------|--------|----------------|-----|-------|------|
| Asbestos ID | T27    | AR             |     |       | N.D. |

No Asbestos Fibres in Soil were detected.

#### CONCLUSIONS

We conclude that the site poses minimal risk to the proposed development.

The tests have identified a very acid result. It is possible the pH result <4 may come from the decomposed vegetation that has formed the soil on the site.

We would comment that for the construction all structural concrete must be isolated from the acid shallow soil, this can be achieved by removing the organic layer over a greater width of the trench. A crush limestone gravel could be placed that will neutralise the pH over time.

We trust the information contained in the reports meets your immediate requirements. Should you need any additional information please do not hesitate to contact us.

Yours faithfully

for GHGCL

New Johnson BSc MSc CEng MIoM<sup>3</sup> Associate Geotechnical Engineer.



Concept Life Sciences is a trading name of Concept Life Sciences Analytical & Development Services Limited registered in England and Wales (No 2514788)

## **Concept Life Sciences**

### **Certificate of Analysis**

Hadfield House Hadfield Street Combrook Manchester M16 9FE Tel : 0161 874 2400 Fax : 0161 874 2468

Report Number: 712906-1

Date of Report: 15-Feb-2018

Customer: Graham Harwood Geotechnical Consulting Limited 7 Stonyhurst Avenue Bolton BL1 7ES

Customer Contact: Mr Neil Johnson

Customer Job Reference: 18-1048 Customer Site Reference: Land Off Sutherland Road, Longsdon Date Job Received at Concept: 01-Feb-2018 Date Analysis Started: 02-Feb-2018 Date Analysis Completed: 15-Feb-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual







Report checked and authorised by : Aneta Dybek-Echtermeyer Customer Service Advisor Issued by : Aneta Dybek-Echtermeyer Customer Service Advisor

> Page 1 of 5 712906-1

| Concept Re                        | ference:  | 712906         |             |               |             |
|-----------------------------------|-----------|----------------|-------------|---------------|-------------|
| Proj                              | ect Site: | Land Off Su    | utherland F | Road, Longsdo | on          |
| Customer Re                       | ference:  | 18-1048        |             |               |             |
| Soil<br>MCERTS Preparation        |           | Analysed a     | s Soil      |               |             |
|                                   |           |                | Concep      | t Reference   | 712906 001  |
| Customer Sample Reference TP3 ES1 |           |                |             |               | TP3 ES1     |
|                                   |           |                |             | Top Depth     | 0.1         |
|                                   |           |                |             | Depth         | 0.1         |
|                                   |           |                | В           | ottom Depth   | 0.2         |
|                                   |           |                | Da          | ate Sampled   | 01-FEB-2018 |
|                                   |           |                | Tir         | ne Sampled    | 11:00       |
|                                   |           |                | I           | Matrix Class  | Sandy Soil  |
| Determinand                       | Method    | Test<br>Sample | LOD         | Units         |             |
| Retained on 10mm sieve            | T2        | M40            | 0.1         | %             | <0.1        |
| Moisture @105C                    | T162      | AR             | 0.1         | %             | 55          |

| Concep              | 712906        |                |                                    |              |             |  |  |  |
|---------------------|---------------|----------------|------------------------------------|--------------|-------------|--|--|--|
|                     | Project Site: | Land Off S     | Land Off Sutherland Road, Longsdon |              |             |  |  |  |
| Custome             | r Reference:  | 18-1048        |                                    |              |             |  |  |  |
| Soil                |               | Analysed       | as Soil                            |              |             |  |  |  |
| NFJ Suite 1         |               |                |                                    |              |             |  |  |  |
|                     |               |                | Concep                             | t Reference  | 712906 001  |  |  |  |
|                     |               | Custon         | ner Sampl                          | e Reference  | TP3 ES1     |  |  |  |
|                     |               |                |                                    | Top Depth    | 0.1         |  |  |  |
|                     |               |                |                                    | Depth        | 0.1         |  |  |  |
|                     |               |                | Bo                                 | ottom Depth  | 0.2         |  |  |  |
|                     |               |                | Da                                 | ate Sampled  | 01-FEB-2018 |  |  |  |
|                     |               | - 22           | Tir                                | ne Sampled   | 11:00       |  |  |  |
|                     |               |                |                                    | Matrix Class | Sandy Soil  |  |  |  |
| Determinand         | Method        | Test<br>Sample | LOD                                | Units        |             |  |  |  |
| Barium              | Т6            | A40            | 1                                  | mg/kg        | 12          |  |  |  |
| Beryllium           | Т6            | A40            | 2                                  | mg/kg        | <2          |  |  |  |
| Chromium VI         | T6            | A40            | 1                                  | mg/kg        | <1          |  |  |  |
| Cyanide(Total)      | T546          | AR             | 1                                  | mg/kg        | <1          |  |  |  |
| pН                  | T7            | AR             |                                    | 1.00         | <4.0        |  |  |  |
| Phenols(Mono)       | T546          | AR             | 1                                  | mg/kg        | <1          |  |  |  |
| Soil Organic Matter | T287          | A40            | 0.1                                | %            | 8.7         |  |  |  |
| SO4(Total)          | Т6            | A40            | 0.01                               | %            | 0.05        |  |  |  |
| Sulphide            | T4            | A40            | 10                                 | mg/kg        | <10         |  |  |  |
| Vanadium            | Т6            | M40            | 1                                  | mg/kg        | 5           |  |  |  |



| Concept                | Reference:   | 712906         |                                    |              |                    |  |  |  |
|------------------------|--------------|----------------|------------------------------------|--------------|--------------------|--|--|--|
| P                      | roject Site: | Land Off S     | Land Off Sutherland Road, Longsdon |              |                    |  |  |  |
| Customer               | Reference:   | 18-1048        |                                    | -            |                    |  |  |  |
|                        |              |                |                                    |              |                    |  |  |  |
| Soil                   |              | Analysed       | as Soil                            |              |                    |  |  |  |
| ICRCL (Table 3:metals) | )            |                |                                    |              |                    |  |  |  |
|                        |              |                | Concor                             | ot Reference | 712906 001         |  |  |  |
|                        |              | Custon         |                                    | le Reference | TP3 ES1            |  |  |  |
|                        |              | Custon         | iler Jailip                        | Top Depth    | 0.1                |  |  |  |
|                        |              |                |                                    | Depth        | 0.1                |  |  |  |
|                        |              |                |                                    | ottom Depth  | 0.1                |  |  |  |
|                        |              |                |                                    | ate Sampled  | 0.2<br>01-FEB-2018 |  |  |  |
|                        |              |                |                                    | 11:00        |                    |  |  |  |
|                        |              |                | me Sampled                         |              |                    |  |  |  |
|                        |              |                |                                    | Matrix Class | Sandy Soil         |  |  |  |
| Determinand            | Method       | Test<br>Sample | LOD                                | Units        |                    |  |  |  |
| Arsenic                | T6           | M40            | 2                                  | mg/kg        | 4                  |  |  |  |
| Boron (water-soluble)  | Т6           | A40            | 1                                  | mg/kg        | <1                 |  |  |  |
| Cadmium                | T6           | M40            | 1                                  | mg/kg        | <1                 |  |  |  |
| Chromium               | Т6           | M40            | 1                                  | mg/kg        | 3                  |  |  |  |
| Copper                 | T6           | M40            | 1                                  | mg/kg        | 19                 |  |  |  |
| Lead                   | T6           | M40            | 1                                  | mg/kg        | 61                 |  |  |  |
| Mercury                | T6           | M40            | 1                                  | mg/kg        | <1                 |  |  |  |
| Nickel                 | T6           | M40            | 1                                  | mg/kg        | 2                  |  |  |  |
| Selenium               | T6           | M40            | 3                                  | mg/kg        | <3                 |  |  |  |
| Zinc                   | T6           | M40            | 1                                  | mg/kg        | 8                  |  |  |  |

|                        | oject Site: | : 712906<br>: Land Off Sutherland Road, Longsdon<br>: 18-1048 |              |              |             |  |  |
|------------------------|-------------|---|--------------|--------------|-------------|--|--|
| Soil                   | elerence.   | Analysed a  | as Soil      |              |             |  |  |
| PAH US EPA 16 (B and I | K split)    |   |              |              |             |  |  |
|                        |             | 100   | Concep       | ot Reference | 712906 001  |  |  |
|                        |             | Custon  | ner Sampl    | e Reference  | TP3 ES1     |  |  |
|                        |             | - 25  | 1000         | Top Depth    | 0.1         |  |  |
|                        |             | 1.1   |              | Depth        | 0.1         |  |  |
|                        |             |   | B            | ottom Depth  | 0.2         |  |  |
|                        |             |   | D            | ate Sampled  | 01-FEB-2018 |  |  |
|                        |             |   | Ti           | me Sampled   | 11:00       |  |  |
|                        |             |   | Matrix Class | Sandy Soil   |             |  |  |
| Determinand            | Method      | Test<br>Sample  | LOD          | Units        |             |  |  |
| Naphthalene            | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Acenaphthylene         | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Acenaphthene           | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Fluorene               | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Phenanthrene           | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Anthracene             | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Fluoranthene           | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Pyrene                 | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Benzo(a)Anthracene     | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Chrysene               | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Benzo(b)fluoranthene   | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Benzo(k)fluoranthene   | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Benzo(a)Pyrene         | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Indeno(123-cd)Pyrene   | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Dibenzo(ah)Anthracene  | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| Benzo(ghi)Perylene     | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |
| PAH(total)             | T207        | M105  | 0.1          | mg/kg        | <0.1        |  |  |

| Concept Referenc             | <b>e:</b> 712906 | 6              |            |              |             |
|------------------------------|------------------|----------------|------------|--------------|-------------|
| Project Sit                  | e: Land C        | Off Sutherla   | nd Road, L | ongsdon.     |             |
| Customer Referenc            | <b>e:</b> 18-104 | 18             |            |              |             |
| Soil<br>NFJ Suite 3          | Analys           | ed as Soil     |            |              |             |
|                              |                  |                | Conce      | ot Reference | 712906 001  |
|                              |                  | Custor         | ner Sampl  | e Reference  | TP3 ES1     |
|                              |                  |                |            | Top Depth    | 0.1         |
|                              |                  |                |            | Depth        | 0.1         |
|                              |                  |                | B          | ottom Depth  | 0.2         |
|                              |                  |                | D          | ate Sampled  | 01-FEB-2018 |
|                              |                  |                | Ti         | me Sampled   | 11:00       |
|                              |                  |                |            | Matrix Class | Sandy Soil  |
| Determinand                  | Method           | Test<br>Sample | LOD        | Units        |             |
| Total Petroleum Hydrocarbons | T8               | M105           | 1          | mg/kg        | (13) 48     |

|                  | Concept Referen  | ce:  | 712906         |                           |              |             |  |  |
|------------------|------------------|------|----------------|---------------------------|--------------|-------------|--|--|
|                  | Project S        | ite: | Land Off S     | Sutherland                | Road, Longs  | don         |  |  |
| C                | Customer Referen | ce:  | 18-1048        |                           |              |             |  |  |
| Soil<br>Suite H8 |                  |      | Analysed       | as Soil                   |              | Ser. 2      |  |  |
|                  |                  |      |                | Conce                     | ot Reference | 712906 001  |  |  |
|                  |                  |      | Custon         | Customer Sample Reference |              |             |  |  |
|                  |                  |      |                |                           | Top Depth    | 0.1         |  |  |
|                  |                  |      |                |                           | Depth        | 0.1         |  |  |
|                  |                  |      |                | В                         | ottom Depth  | 0.2         |  |  |
|                  |                  |      | 1.24           | D                         | ate Sampled  | 01-FEB-2018 |  |  |
|                  |                  |      |                | ті                        | me Sampled   | 11:00       |  |  |
|                  |                  |      |                |                           | Matrix Class | Sandy Soil  |  |  |
| Determi          | nand Metho       | bd   | Test<br>Sample | LOD                       | Units        | 1           |  |  |
| Asbestos ID      | T27              |      | AR             |                           |              | N.D.        |  |  |

## Index to symbols used in 712906-1

| Value | Description   |  |  |  |  |  |
|-------|---|--|--|--|--|--|
| A40   | Assisted dried < 40C  |  |  |  |  |  |
| AR    | As Received   |  |  |  |  |  |
| M105  | Analysis conducted on an "as received"<br>aliquot. Results are reported on a dry<br>weight basis where moisture content was<br>determined by assisted drying of sample<br>at 105C |  |  |  |  |  |
| M40   | Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.  |  |  |  |  |  |
| N.D.  | Not Detected  |  |  |  |  |  |
| 13    | Results have been blank corrected.  |  |  |  |  |  |
| S     | Analysis was subcontracted  |  |  |  |  |  |
| М     | Analysis is MCERTS accredited   |  |  |  |  |  |
| U     | Analysis is UKAS accredited   |  |  |  |  |  |
| N     | Analysis is not UKAS accredited   |  |  |  |  |  |

#### Notes

Asbestos testing was subcontracted to REC Asbestos.

### **Method Index**

| Value |     | Description          |  |  |
|-------|-----|----------------------|--|--|
|       | Т8  | GC/FID               |  |  |
|       | T7  | Probe                |  |  |
|       | T2  | Grav                 |  |  |
| Т     | 162 | Grav (1 Dec) (105 C) |  |  |
| Т     | 207 | GC/MS (MCERTS)       |  |  |
| Т     | 287 | Calc TOC/0.58        |  |  |

| T4   | Colorimetry      |  |  |
|------|------------------|--|--|
| T27  | PLM              |  |  |
| T546 | Colorimetry (CF) |  |  |
| T6   | ICP/OES          |  |  |

## **Accreditation Summary**

| Determinand                  | Method | Test<br>Sample | LOD  | Units | Symbol | Concept References |
|------------------------------|--------|----------------|------|-------|--------|--------------------|
| Barium                       | T6     | A40            | 1    | mg/kg | U      | 001                |
| Beryllium                    | T6     | A40            | 2    | mg/kg | U      | 001                |
| Chromium VI                  | T6     | A40            | 1    | mg/kg | Ν      | 001                |
| Cyanide(Total)               | T546   | AR             | 1    | mg/kg | М      | 001                |
| рН                           | T7     | AR             |      |       | М      | 001                |
| Phenols(Mono)                | T546   | AR             | 1    | mg/kg | М      | 001                |
| Soil Organic Matter          | T287   | A40            | 0.1  | %     | Ν      | 001                |
| SO4(Total)                   | T6     | A40            | 0.01 | %     | N      | 001                |
| Sulphide                     | T4     | A40            | 10   | mg/kg | Ν      | 001                |
| Vanadium                     | T6     | M40            | 1    | mg/kg | м      | 001                |
| Arsenic                      | T6     | M40            | 2    | mg/kg | М      | 001                |
| Boron (water-soluble)        | T6     | A40            | 1    | mg/kg | N      | 001                |
| Cadmium                      | T6     | M40            | 1    | mg/kg | м      | 001                |
| Chromium                     | T6     | M40            | 1    | mg/kg | м      | 001                |
| Copper                       | T6     | M40            | 1    | mg/kg | М      | 001                |
| Lead                         | T6     | M40            | 1    | mg/kg | М      | 001                |
| Mercury                      | T6     | M40            | 1    | mg/kg | М      | 001                |
| Nickel                       | T6     | M40            | 1    | mg/kg | М      | 001                |
| Selenium                     | T6     | M40            | 3    | mg/kg | М      | 001                |
| Zinc                         | T6     | M40            | 1    | mg/kg | М      | 001                |
| Naphthalene                  | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Acenaphthylene               | T207   | M105           | 0.1  | mg/kg | U      | 001                |
| Acenaphthene                 | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Fluorene                     | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Phenanthrene                 | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Anthracene                   | T207   | M105           | 0.1  | mg/kg | U      | 001                |
| Fluoranthene                 | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Pyrene                       | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Benzo(a)Anthracene           | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Chrysene                     | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Benzo(b)fluoranthene         | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Benzo(k)fluoranthene         | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Benzo(a)Pyrene               | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Indeno(123-cd)Pyrene         | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| Dibenzo(ah)Anthracene        | T207   | M105           | 0.1  | mg/kg | м      | 001                |
| Benzo(ghi)Perylene           | T207   | M105           | 0.1  | mg/kg | М      | 001                |
| PAH(total)                   | T207   | M105           | 0.1  | mg/kg | U      | 001                |
| Total Petroleum Hydrocarbons | T8     | M105           | 1    | mg/kg | М      | 001                |
| Retained on 10mm sieve       | T2     | M40            | 0.1  | %     | N      | 001                |
| Moisture @105C               | T162   | AR             | 0.1  | %     | N      | 001                |
| Asbestos ID                  | T27    | AR             |      |       | SU     | 001                |





