

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428303

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class1/L4/3CF
Date and Time of Sampling:	06/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	02/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.72 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428306

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:


Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class2/L7/3CF
Date and Time of Sampling:	07/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	02/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:


Particle Density = 2.73 Mg/m³

Comments

None

Certificate
Prepared by:- 

Meical Owen
Assistant Laboratory Manager

Approved by: - 

Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428309

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:


Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class3/L13/4CF
Date and Time of Sampling:	10/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	02/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.71 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428312

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class4/L16/4CF
Date and Time of Sampling:	11/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	02/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.73 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428315

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:


Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class5/L21/4CF
Date and Time of Sampling:	13/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	02/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:


Particle Density = 2.72 Mg/m³

Comments

None

Certificate
Prepared by:- 

Meical Owen
Assistant Laboratory Manager

Approved by: - 

Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433646

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class6/L27/5CF
Date and Time of Sampling:	17/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433649

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class7/L29/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433652

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class8/L31/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433655

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class9/L32/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433658

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class10/L1/5B
Date and Time of Sampling:	20/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433661

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class11/L3/4B
Date and Time of Sampling:	21/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433664

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class12/L1/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	12/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435546

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class13/L2/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435549

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class14/L3/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435552

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class15/L3/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435555

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class16/L8/2G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435558

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class17/L4/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435649

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class18/L13/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435652

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class19/L19/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435655

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class20/L21/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435659

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class21/L23/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.77 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435664

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class22/L25/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435667

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class23/L27/4GH
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435670

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class24/L29/4GH
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435673

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class25/L31/4GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435702

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class26/L33/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435705

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class27/L34/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435708

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class28/L35/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	26/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436392

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class29/L1/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436395

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class30/L2/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436400

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class31/L3/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.77 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436403

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class32/L4/3CF
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436407

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class33/L36/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.72 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436410

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class34/L38/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.73 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436414

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class35/L39/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436417

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class36/L40/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436421

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class37/L1/3CF
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.74 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436424

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class38/L2/3CF
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A


RESULTS:

Particle Density = 2.73 Mg/m³

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

Approved by: - 
Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436427

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class39/L3/4B
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.76 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436432

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density of Soil – Gas Jar method, in accordance with **BS 1377 : Part 2 : 1990 : Clause 8.2.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class40/L4/3CF
Date and Time of Sampling:	12/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	12/11/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification	N/A

RESULTS:

Particle Density = 2.75 Mg/m³

Comments

None

Certificate

Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428302

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. :	Class1/L4/3CF
Date and Time of Sampling:	06/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	07/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	14
Liquid Limit	=	28
Plasticity Index	=	14

Comments


None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428305

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. :	Class2/L7/3CF
Date and Time of Sampling:	07/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	07/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	86
Plastic Limit	=	15
Liquid Limit	=	31
Plasticity Index	=	16

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428308

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. :	Class3/L13/4CF
Date and Time of Sampling:	10/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	07/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	91
Plastic Limit	=	15
Liquid Limit	=	31
Plasticity Index	=	16

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428311

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. :	Class4/L16/4CF
Date and Time of Sampling:	11/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	07/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	86
Plastic Limit	=	14
Liquid Limit	=	29
Plasticity Index	=	15

Comments


None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428314

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. :	Class5/L21/4CF
Date and Time of Sampling:	13/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	07/09/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	30
Plasticity Index	=	15

Comments


None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433645

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class6/L27/5CF
Date and Time of Sampling:	17/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	96
Plastic Limit	=	14
Liquid Limit	=	29
Plasticity Index	=	15

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433648

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class7/L29/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	100
Plastic Limit	=	15
Liquid Limit	=	30
Plasticity Index	=	15

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433651

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class8/L31/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	14
Liquid Limit	=	27
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433654

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class9/L32/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433657

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class10/L1/5B
Date and Time of Sampling:	20/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	14
Liquid Limit	=	27
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433660

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class11/L3/4B
Date and Time of Sampling:	21/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	27
Plasticity Index	=	12

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433663

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. :	Class12/L1/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	07/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435545

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. :	Class13/L2/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	14/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	14
Liquid Limit	=	27
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435548

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Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. :	Class14/L3/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	14/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	14
Liquid Limit	=	28
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435551

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. :	Class15/L3/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	14/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435554

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. :	Class16/L8/2G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	14/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435557

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. :	Class17/L4/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	14/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	30
Plasticity Index	=	15

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435648

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class18/L13/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	95
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435651

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class19/L19/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	16
Liquid Limit	=	30
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435654

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class20/L21/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435658

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class21/L23/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435663

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class22/L25/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435666

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class23/L27/4GH
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435669

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class24/L29/4GH
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	14
Liquid Limit	=	27
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435672

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class25/L31/4GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435701

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class26/L33/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435704

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class27/L34/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	14
Liquid Limit	=	26
Plasticity Index	=	12

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435707

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. :	Class28/L35/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	20/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436391

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class29/L1/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436394

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class30/L2/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436399

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class31/L3/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	96
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436402

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class32/L4/3CF
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	97
Plastic Limit	=	14
Liquid Limit	=	27
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436406

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class33/L36/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	97
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436409

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class34/L38/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	97
Plastic Limit	=	14
Liquid Limit	=	28
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436413

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class35/L39/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	96
Plastic Limit	=	14
Liquid Limit	=	28
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436416

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class36/L40/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	16
Liquid Limit	=	31
Plasticity Index	=	15

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436420

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class37/L1/3CF
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436423

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class38/L2/3CF
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	16
Liquid Limit	=	31
Plasticity Index	=	15

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436426

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class39/L3/4B
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	98
Plastic Limit	=	15
Liquid Limit	=	29
Plasticity Index	=	14

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436431

LS15 8GB

Page 1 of 1

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. :	Class40/L4/3CF
Date and Time of Sampling:	12/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	23/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Soil Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

History of sample:	:	Natural state/ After wet sieving
% Materials passing 425µm	=	99
Plastic Limit	=	15
Liquid Limit	=	28
Plasticity Index	=	13

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by:



Eric Goulden
Technical Manager

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428304

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class1/L4/3CF
Date and Time of Sampling:	06/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	26/08/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

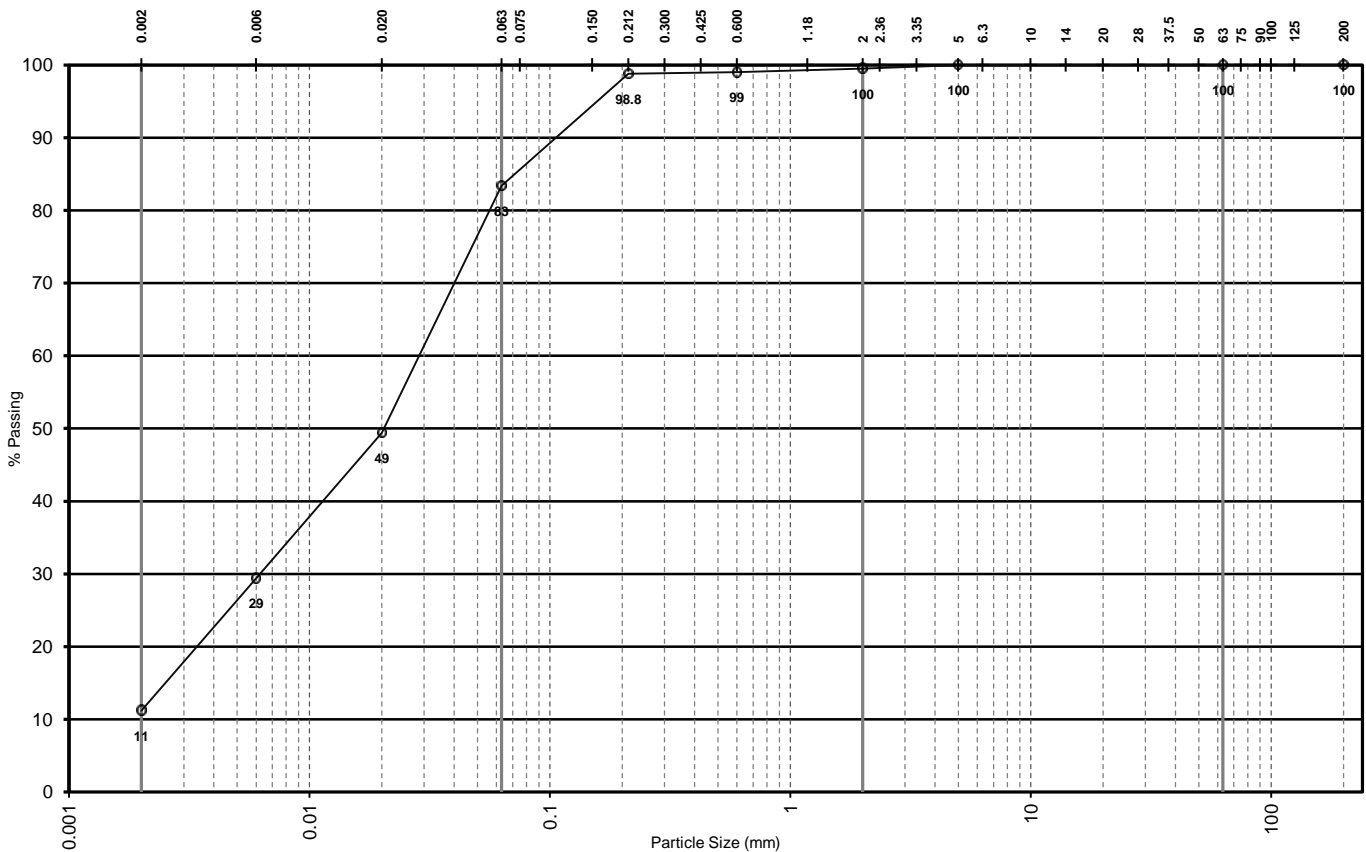
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 428304: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	16.1
200	100.0	3.35		Silt	72.2
125		2.36		Clay	11.2
100		2.0	99.5		
90		1.18			
75		0.600	99.0		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.8		
28		0.150			
20		0.075			
14		0.063	83.4		
10		0.020	49.4		
6.3		0.006	29.4		
5.0	100.0	0.002	11.2		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
SILT			SAND			GRAVEL				

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428307

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class2/L7/3CF
Date and Time of Sampling:	07/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	26/08/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

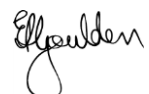
None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



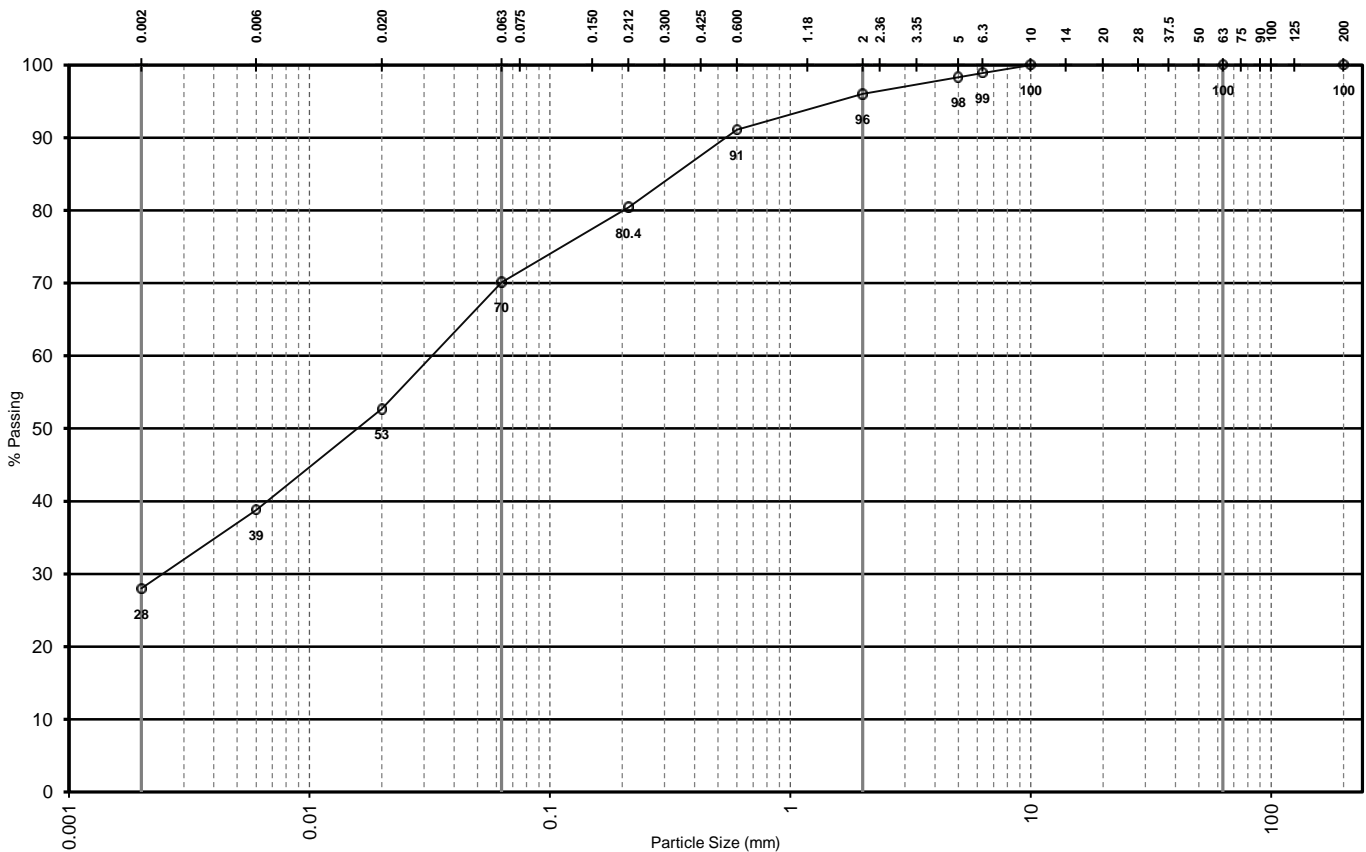
Eric Goulden
Technical Manager

Test Report Ref: STR 428307: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	4.0
				Sand	25.9
				Silt	42.1
				Clay	28.0
200	100.0	3.35			
125		2.36			
100		2.0	96.0		
90		1.18			
75		0.600	91.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	80.4		
28		0.150			
20		0.075			
14		0.063	70.1		
10	100.0	0.020	52.7		
6.3	98.9	0.006	38.8		
5.0	98.3	0.002	28.0		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428310

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class3/L13/4CF
Date and Time of Sampling:	10/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	26/08/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

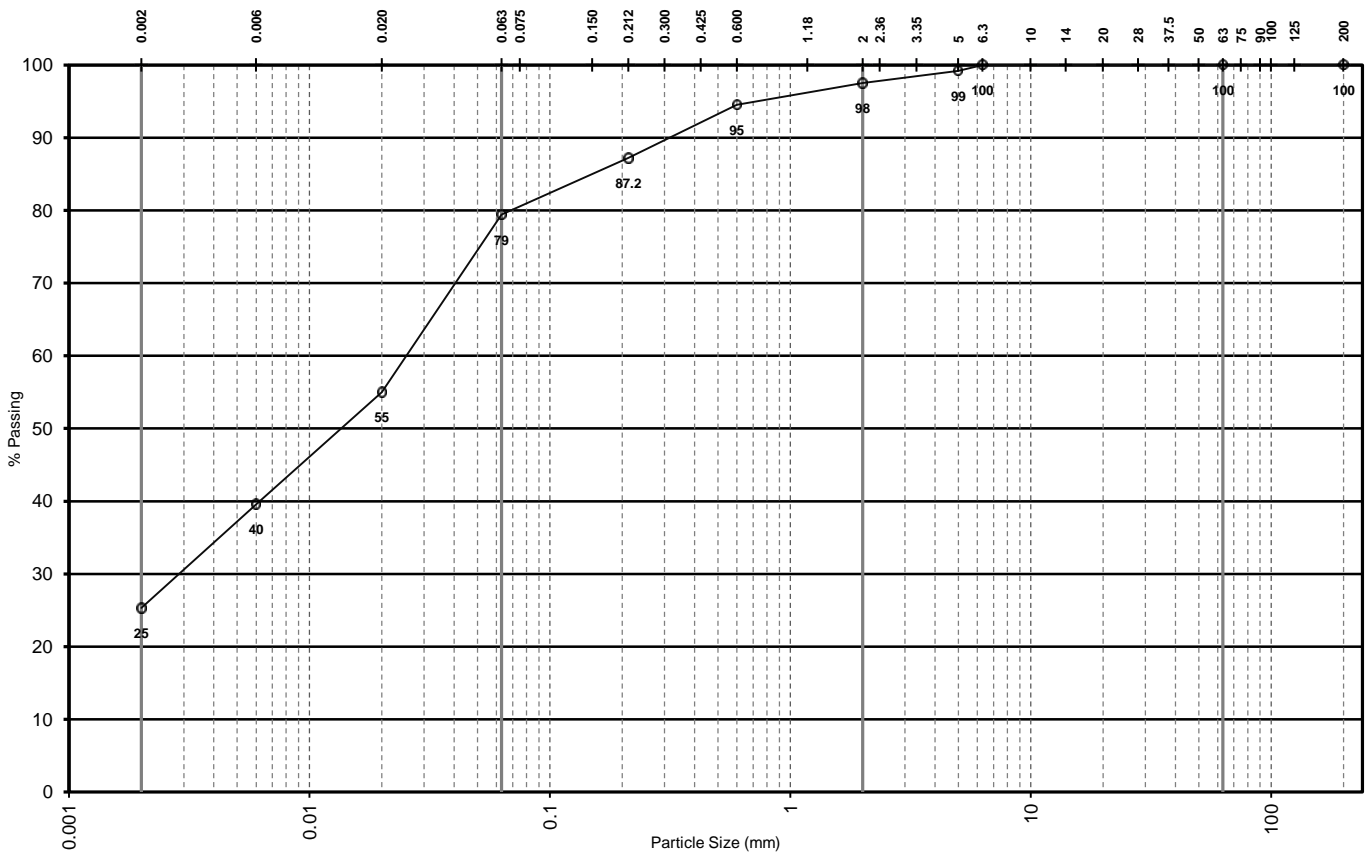
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 428310: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	2.5
				Sand	18.1
200	100.0	3.35		Silt	54.1
125		2.36		Clay	25.3
100		2.0	97.5		
90		1.18			
75		0.600	94.5		
63	100.0	0.425			
50		0.300			
37.5		0.212	87.2		
28		0.150			
20		0.075			
14		0.063	79.4		
10		0.020	55.0		
6.3	100.0	0.006	39.6		
5.0	99.2	0.002	25.3		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428313

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class4/L16/4CF
Date and Time of Sampling:	11/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	26/08/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments


None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



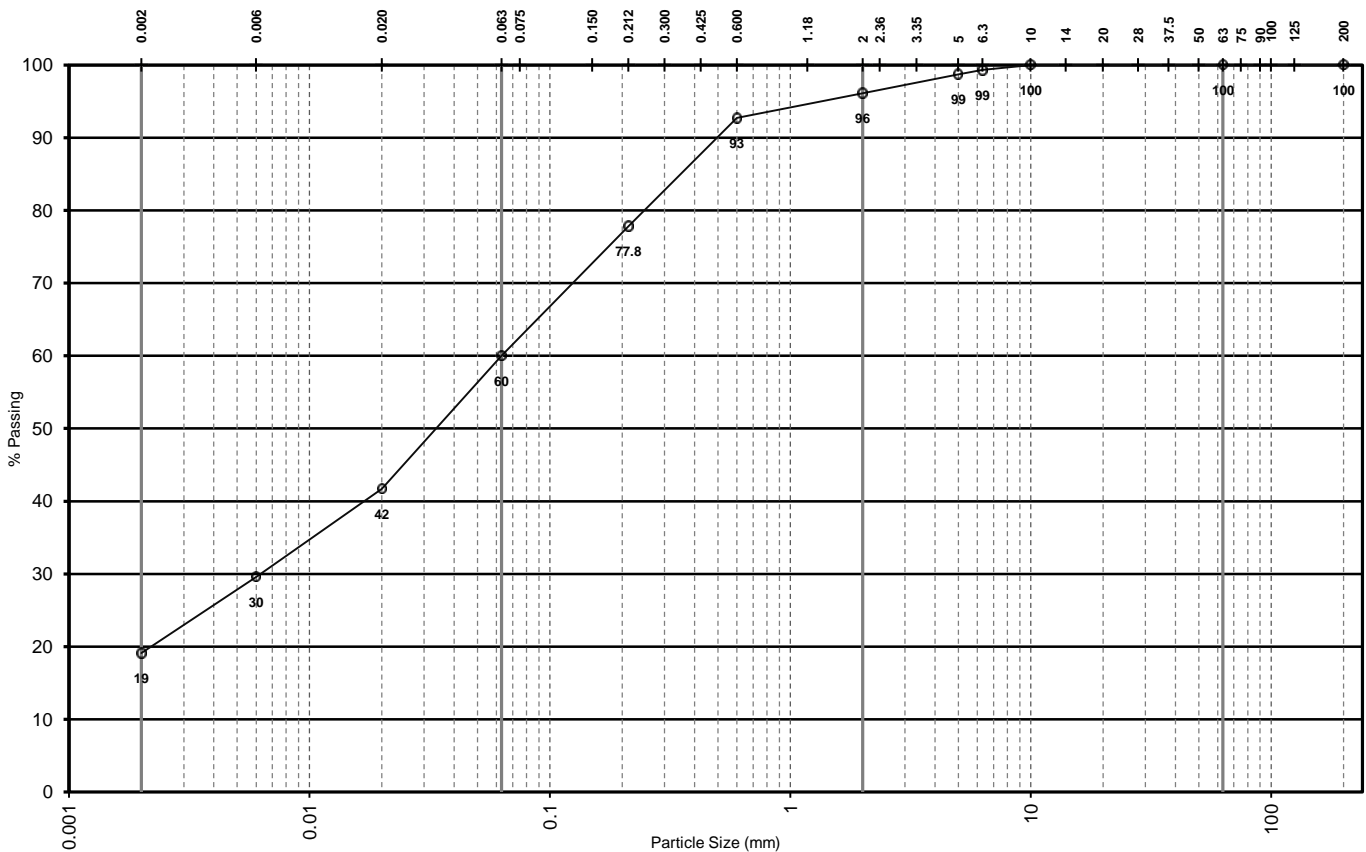
Eric Goulden
Technical Manager

Test Report Ref: STR 428313: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	3.9
				Sand	36.1
				Silt	40.9
				Clay	19.1
200	100.0	3.35			
125		2.36			
100		2.0	96.1		
90		1.18			
75		0.600	92.7		
63	100.0	0.425			
50		0.300			
37.5		0.212	77.8		
28		0.150			
20		0.075			
14		0.063	60.0		
10	100.0	0.020	41.7		
6.3	99.3	0.006	29.6		
5.0	98.7	0.002	19.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 15 September 2015
Test Report Ref: STR 428316

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S54309
Client Ref. No:	Class5/L21/4CF
Date and Time of Sampling:	13/08/2015
Date of Receipt at Lab:	20/08/2015
Date of Start of Test:	26/08/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

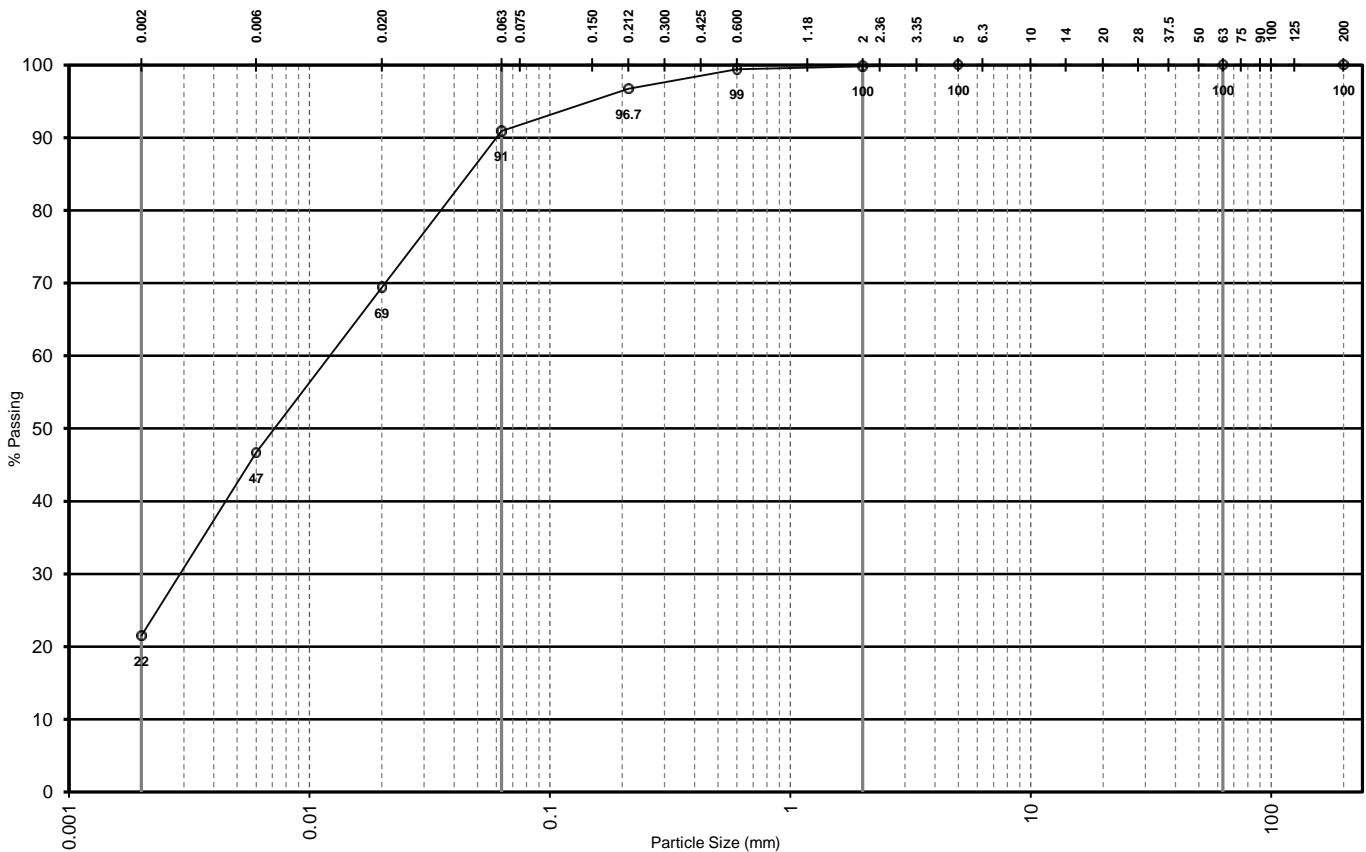
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 428316: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	8.9
200	100.0	3.35		Silt	69.4
125		2.36		Clay	21.5
100		2.0	99.8		
90		1.18			
75		0.600	99.4		
63	100.0	0.425			
50		0.300			
37.5		0.212	96.7		
28		0.150			
20		0.075			
14		0.063	90.9		
10		0.020	69.4		
6.3		0.006	46.7		
5.0	100.0	0.002	21.5		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
SILT			SAND			GRAVEL				

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433647

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class6/L27/5CF
Date and Time of Sampling:	17/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

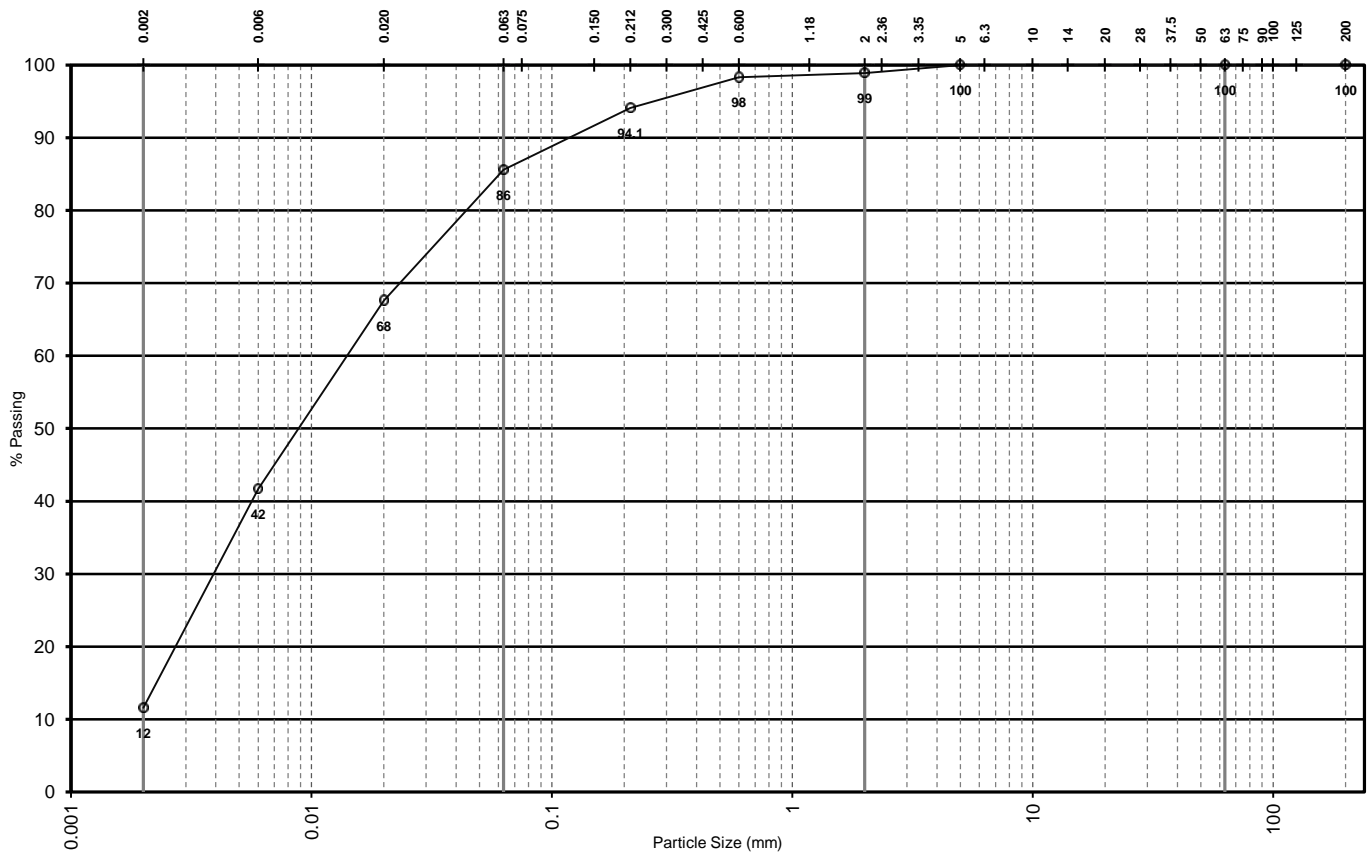
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 433647: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.1
				Sand	13.3
				Silt	74.0
				Clay	11.6
200	100.0	3.35			
125		2.36			
100		2.0	98.9		
90		1.18			
75		0.600	98.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	94.1		
28		0.150			
20		0.075			
14		0.063	85.6		
10		0.020	67.6		
6.3		0.006	41.7		
5.0	100.0	0.002	11.6		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433650

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class7/L29/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



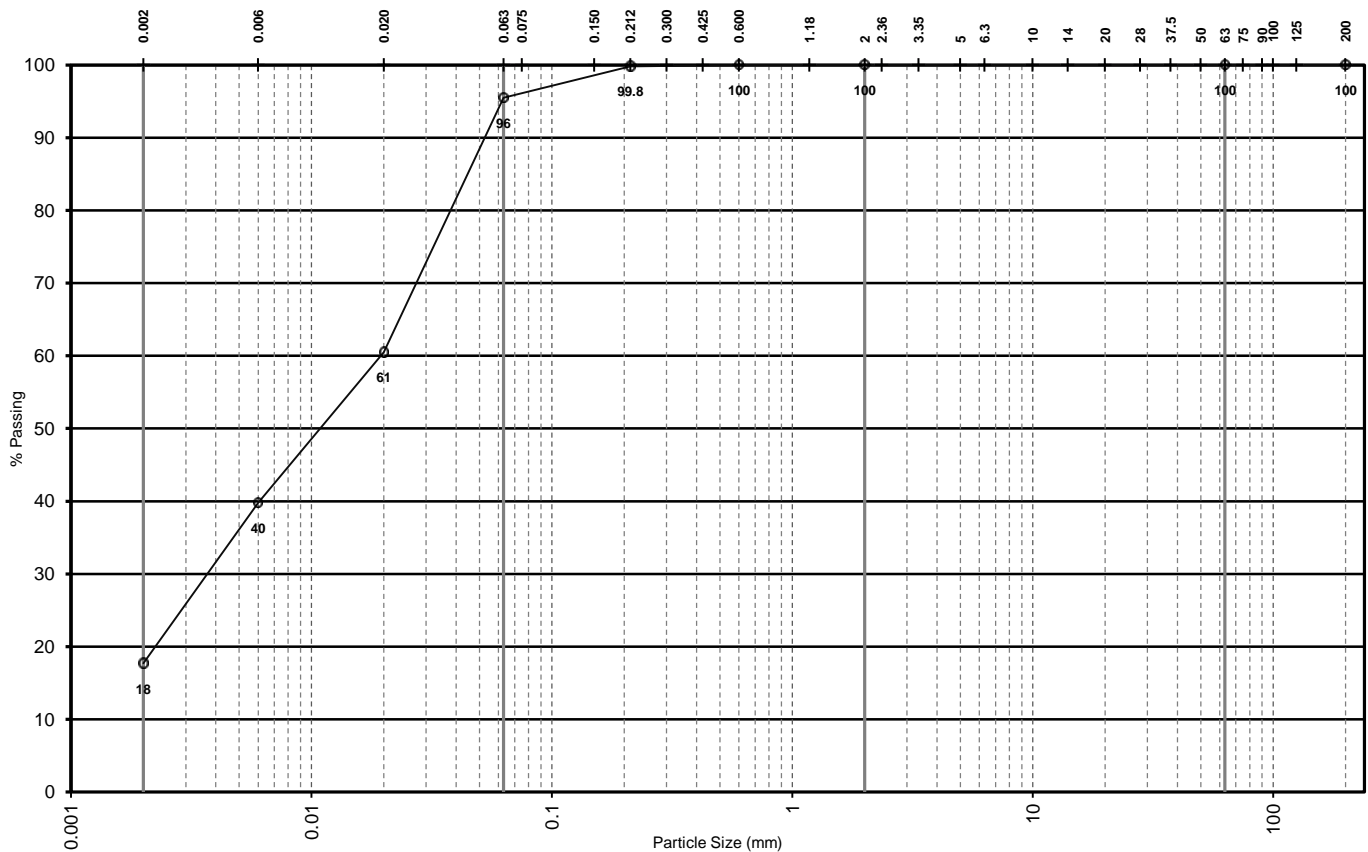
Eric Goulden
Technical Manager

Test Report Ref: STR 433650: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	4.5
200	100.0	3.35		Silt	77.8
125		2.36		Clay	17.7
100		2.0	100.0		
90		1.18			
75		0.600	100.0		
63	100.0	0.425			
50		0.300			
37.5		0.212	99.8		
28		0.150			
20		0.075			
14		0.063	95.5		
10		0.020	60.5		
6.3		0.006	39.8		
5.0		0.002	17.7		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433653

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class8/L31/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

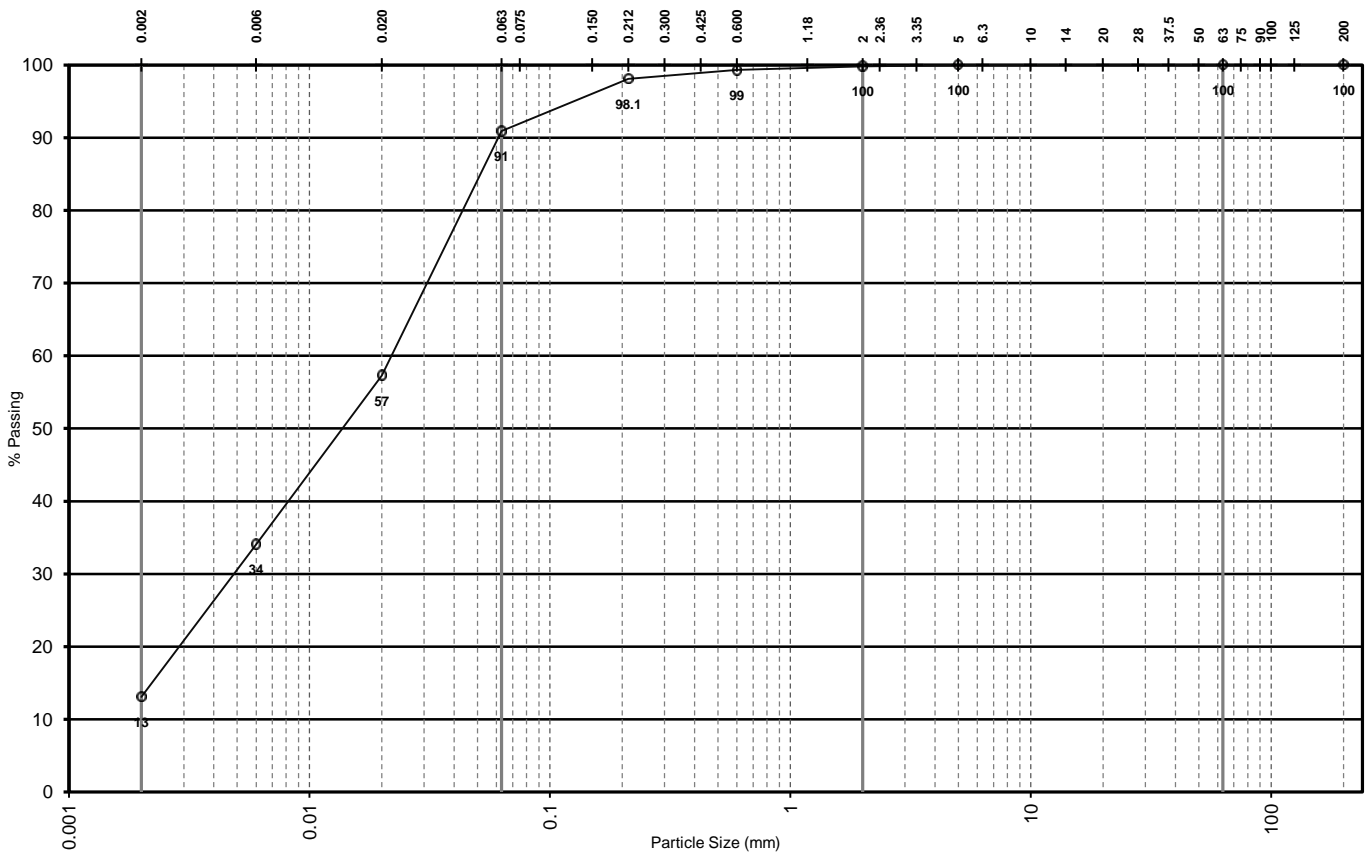
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 433653: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	8.9
200	100.0	3.35		Silt	77.8
125		2.36		Clay	13.1
100		2.0	99.8		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.1		
28		0.150			
20		0.075			
14		0.063	90.9		
10		0.020	57.3		
6.3		0.006	34.1		
5.0	100.0	0.002	13.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
SILT			SAND			GRAVEL				

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433656

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class9/L32/5CF
Date and Time of Sampling:	18/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

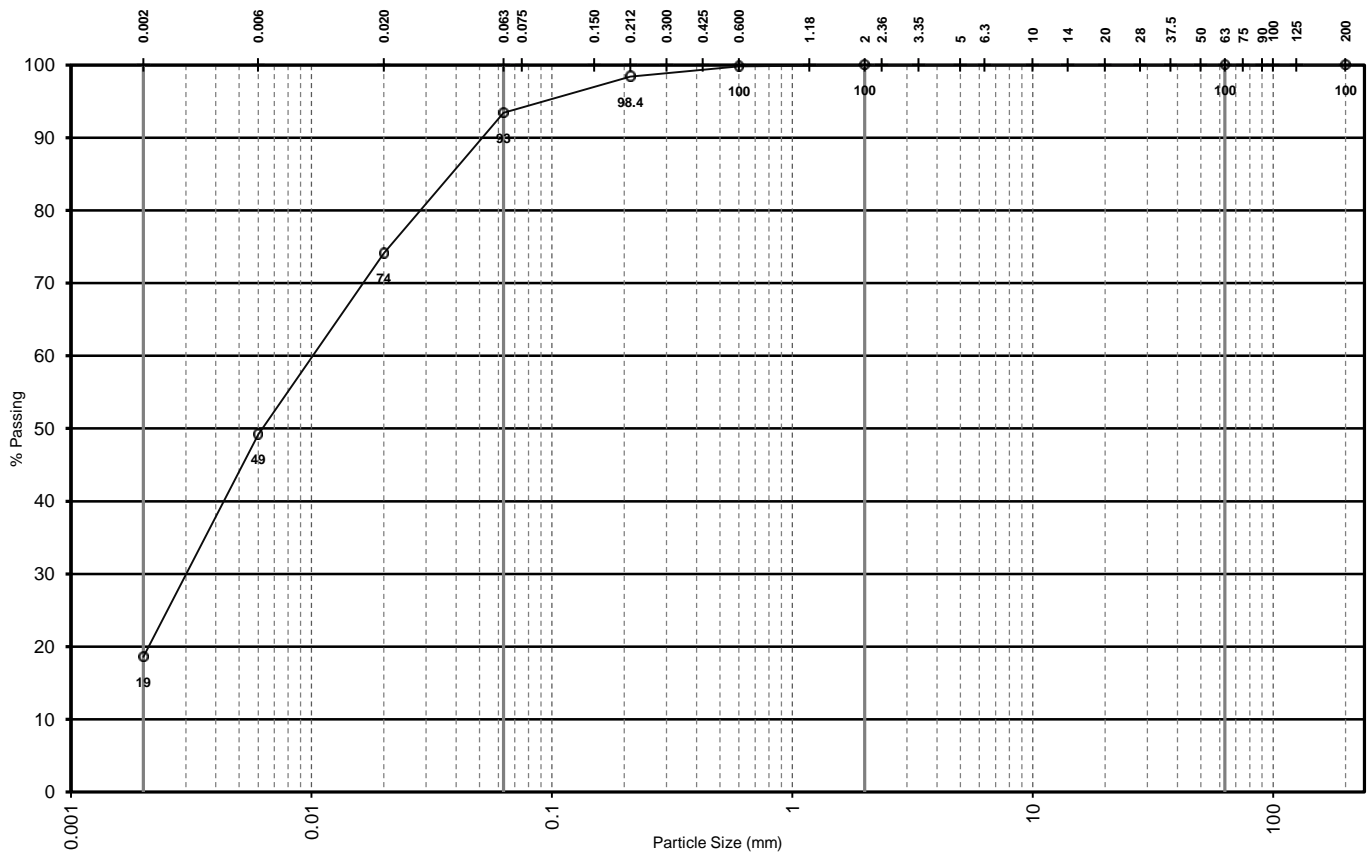
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 433656: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	6.6
200	100.0	3.35		Silt	74.8
125		2.36		Clay	18.6
100		2.0	100.0		
90		1.18			
75		0.600	99.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.4		
28		0.150			
20		0.075			
14		0.063	93.4		
10		0.020	74.1		
6.3		0.006	49.2		
5.0		0.002	18.6		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433659

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class10/L1/5B
Date and Time of Sampling:	20/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



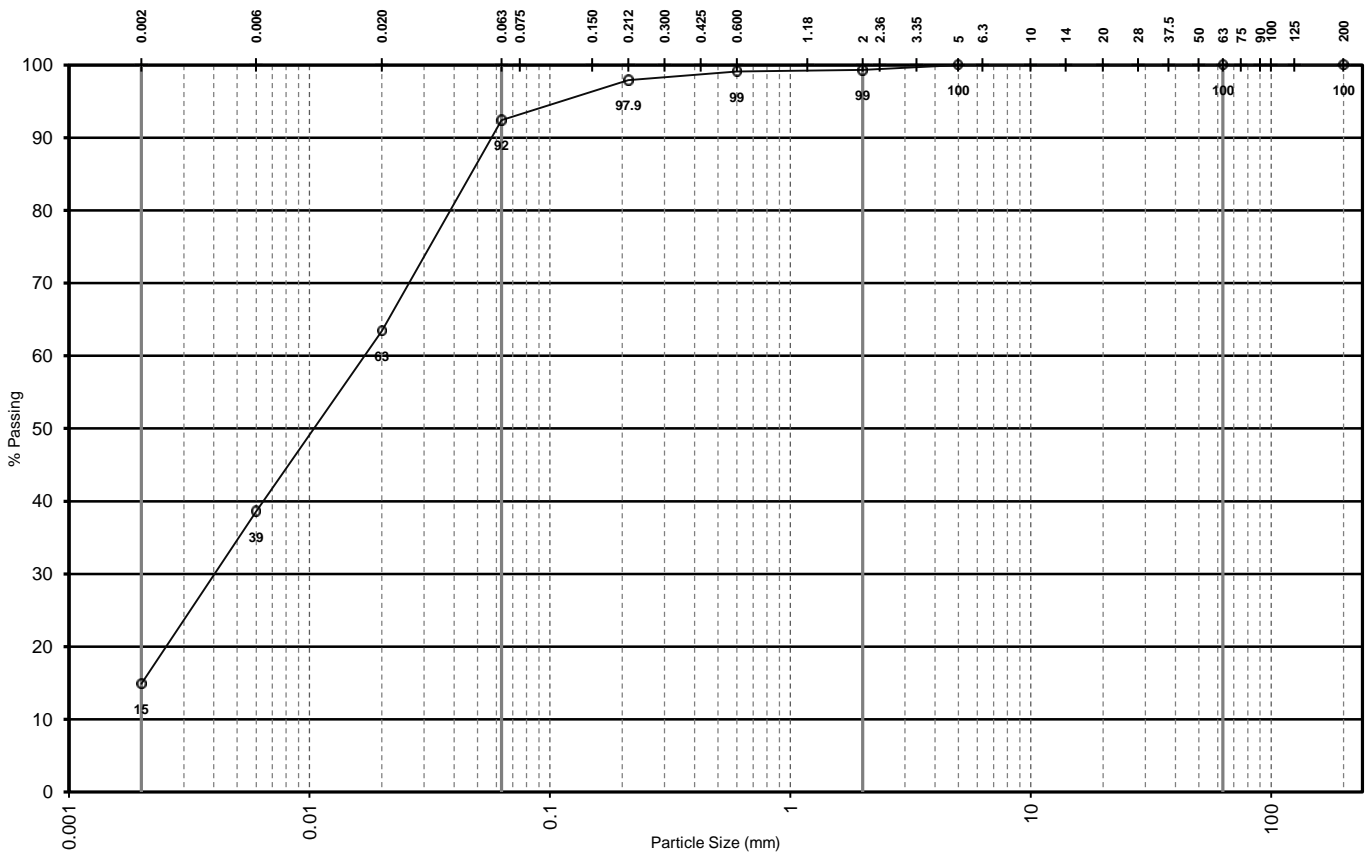
Eric Goulden
Technical Manager

Test Report Ref: STR 433659: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.7
				Sand	6.9
200	100.0	3.35		Silt	77.5
125		2.36		Clay	14.9
100		2.0	99.3		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.9		
28		0.150			
20		0.075			
14		0.063	92.4		
10		0.020	63.4		
6.3		0.006	38.6		
5.0	100.0	0.002	14.9		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433662

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class11/L3/4B
Date and Time of Sampling:	21/08/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

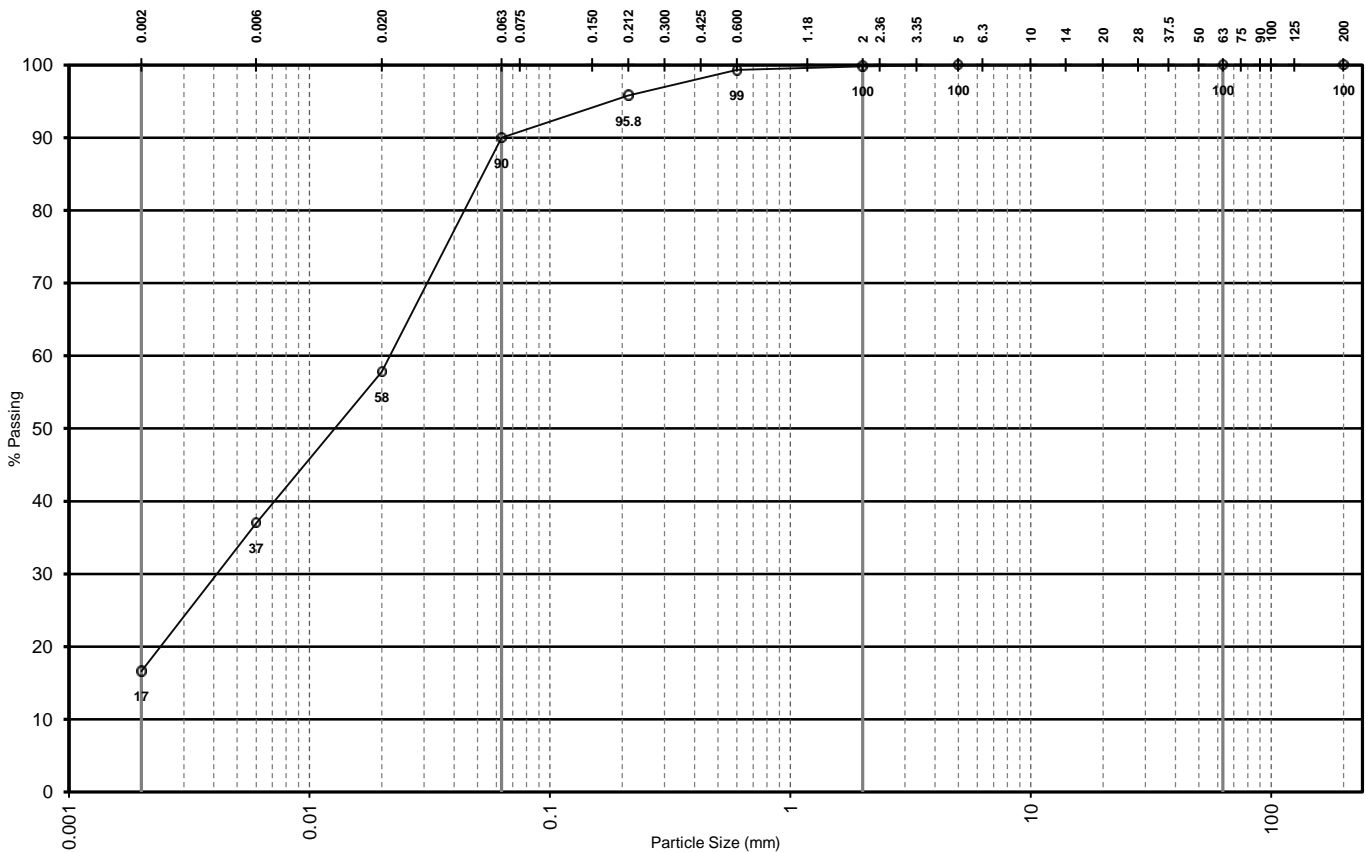
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 433662: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	9.8
200	100.0	3.35		Silt	73.4
125		2.36		Clay	16.6
100		2.0	99.8		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	95.8		
28		0.150			
20		0.075			
14		0.063	90.0		
10		0.020	57.8		
6.3		0.006	37.0		
5.0	100.0	0.002	16.6		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 433665

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55020
Client Ref. No:	Class12/L1/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	29/09/2015
Date of Start of Test:	05/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Stratus
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

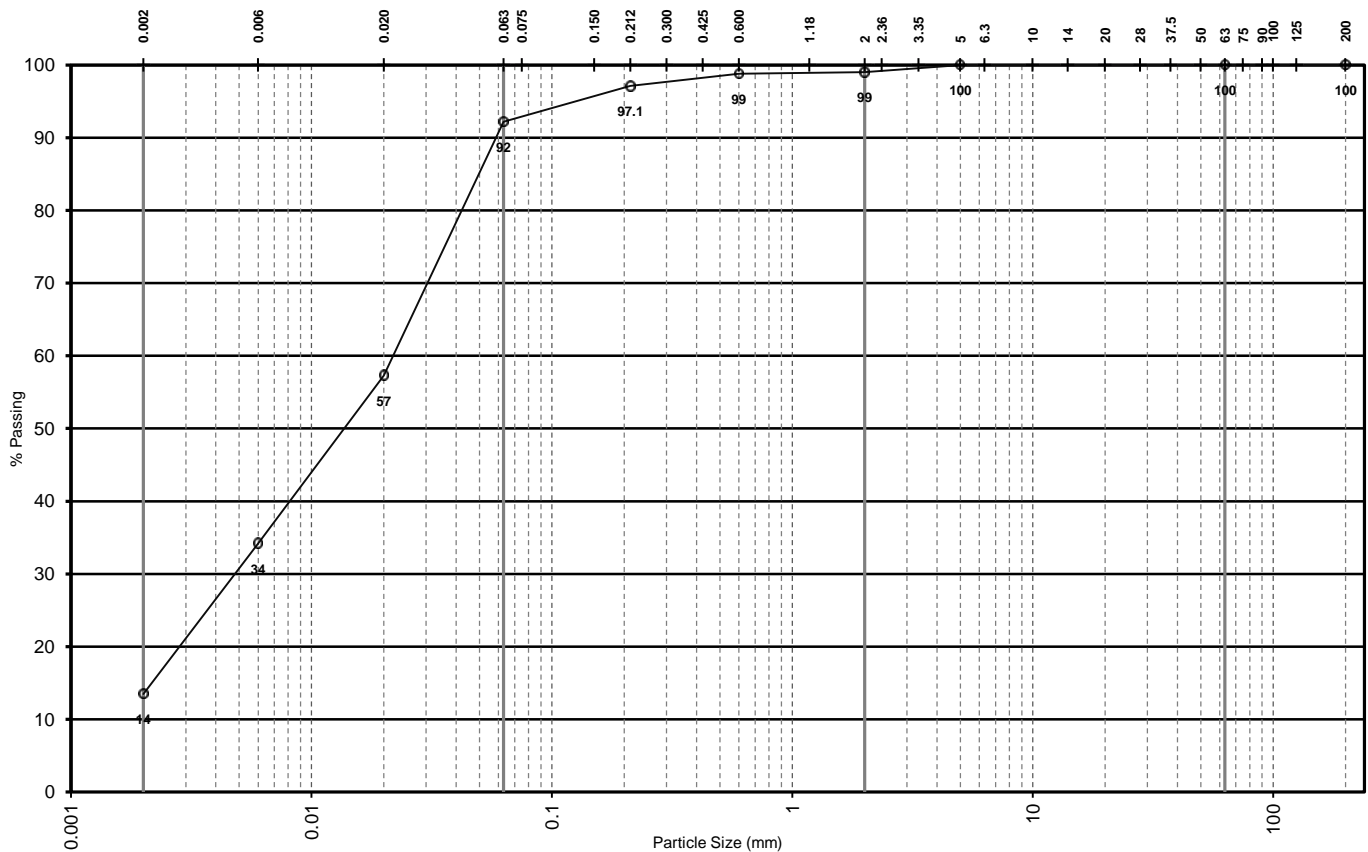
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 433665: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.0
				Sand	6.8
200	100.0	3.35		Silt	78.7
125		2.36		Clay	13.5
100		2.0	99.0		
90		1.18			
75		0.600	98.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.1		
28		0.150			
20		0.075			
14		0.063	92.2		
10		0.020	57.3		
6.3		0.006	34.2		
5.0	100.0	0.002	13.5		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435547

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class13/L2/2GH
Date and Time of Sampling:	24/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	22/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



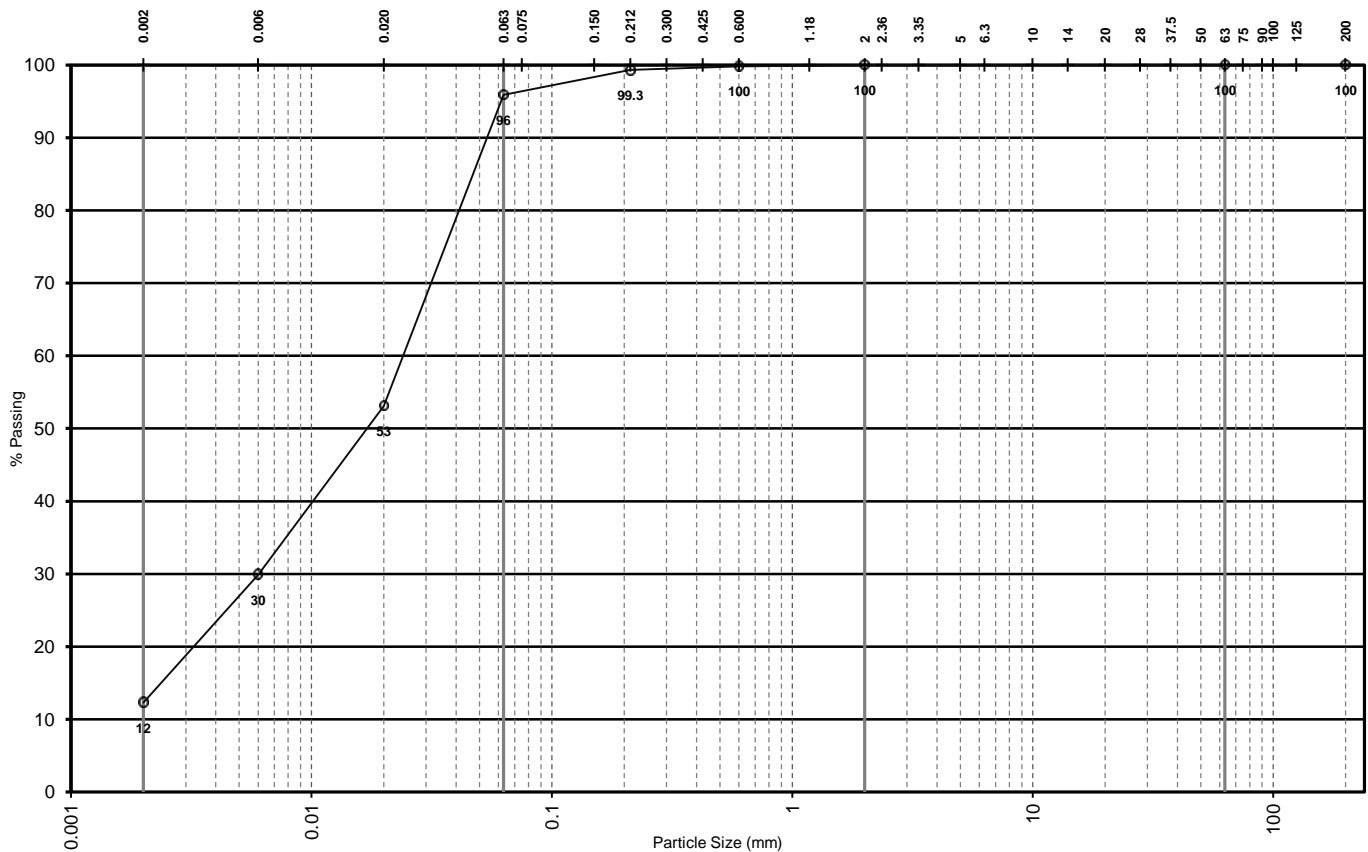
Eric Goulden
Technical Manager

Test Report Ref: STR 435547: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	4.1
200	100.0	3.35		Silt	83.6
125		2.36		Clay	12.3
100		2.0	100.0		
90		1.18			
75		0.600	99.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	99.3		
28		0.150			
20		0.075			
14		0.063	95.9		
10		0.020	53.1		
6.3		0.006	29.9		
5.0		0.002	12.3		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435550

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class14/L3/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	22/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



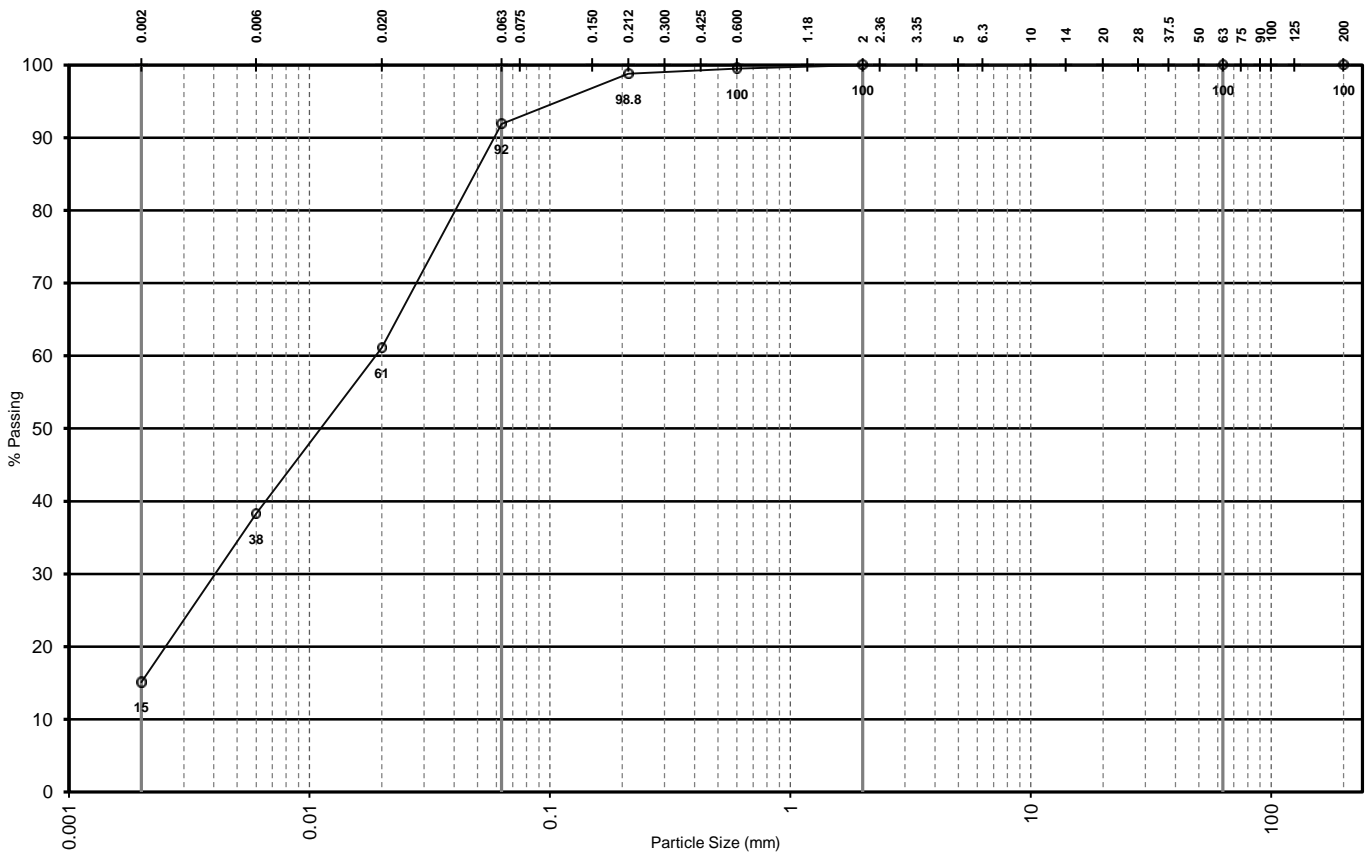
Eric Goulden
Technical Manager

Test Report Ref: STR 435550: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	8.1
200	100.0	3.35		Silt	76.8
125		2.36		Clay	15.1
100		2.0	100.0		
90		1.18			
75		0.600	99.5		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.8		
28		0.150			
20		0.075			
14		0.063	91.9		
10		0.020	61.1		
6.3		0.006	38.3		
5.0		0.002	15.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435553

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class15/L3/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	22/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



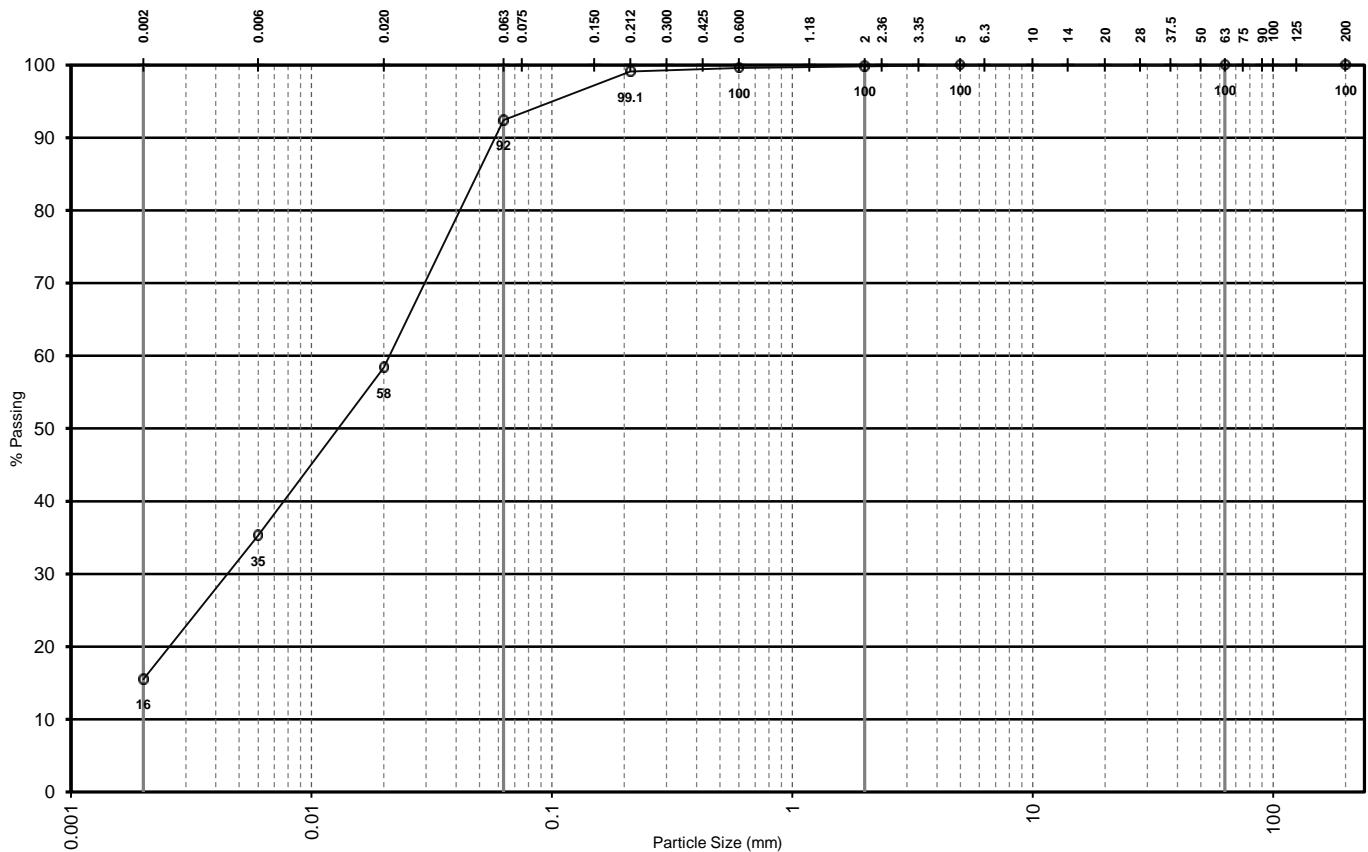
Eric Goulden
Technical Manager

Test Report Ref: STR 435553: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	7.4
200	100.0	3.35		Silt	76.9
125		2.36		Clay	15.5
100		2.0	99.8		
90		1.18			
75		0.600	99.6		
63	100.0	0.425			
50		0.300			
37.5		0.212	99.1		
28		0.150			
20		0.075			
14		0.063	92.4		
10		0.020	58.4		
6.3		0.006	35.3		
5.0	100.0	0.002	15.5		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435556

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class16/L8/2G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	22/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

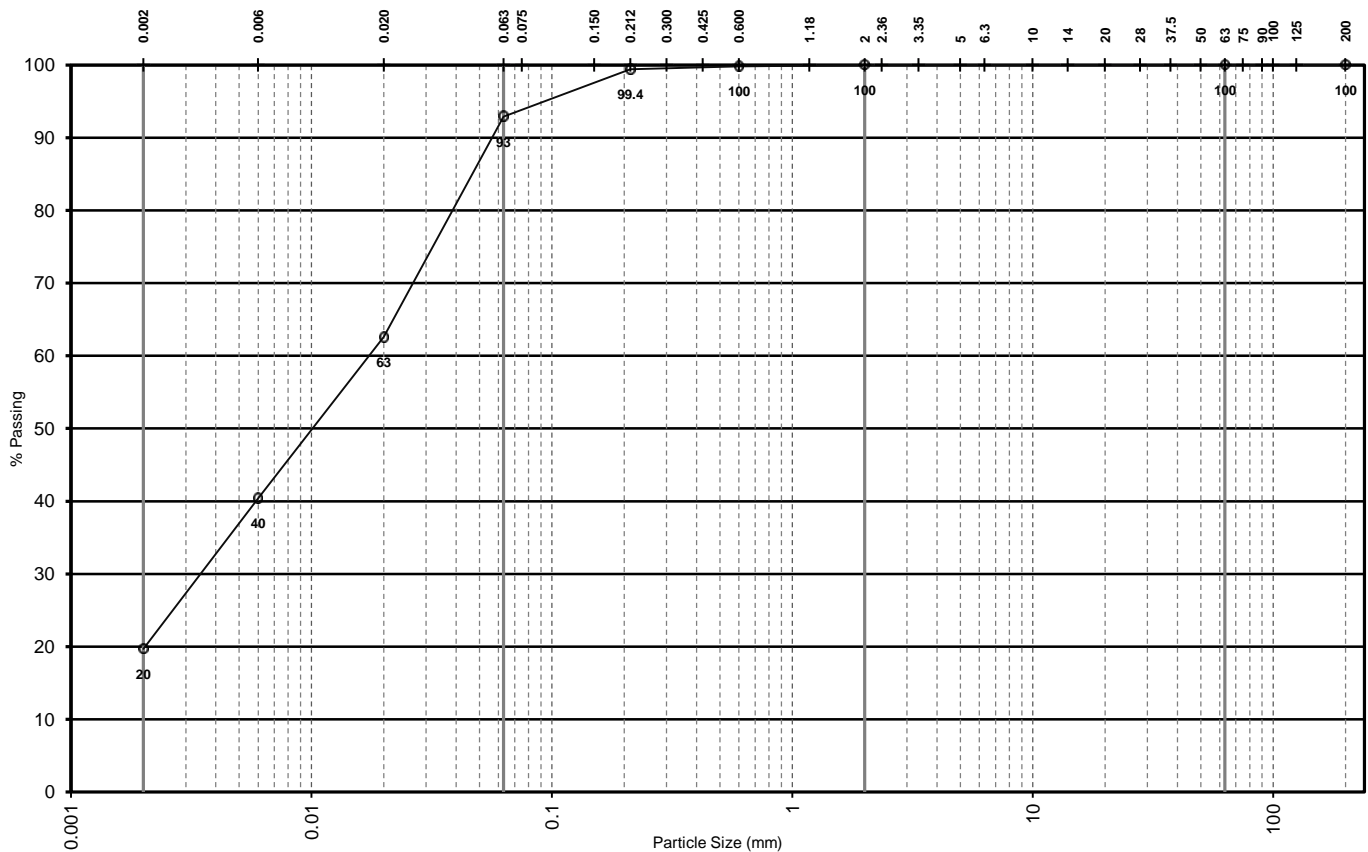
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435556: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	7.1
200	100.0	3.35		Silt	73.2
125		2.36		Clay	19.7
100		2.0	100.0		
90		1.18			
75		0.600	99.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	99.4		
28		0.150			
20		0.075			
14		0.063	92.9		
10		0.020	62.6		
6.3		0.006	40.4		
5.0		0.002	19.7		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435559

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55186
Client Ref. No:	Class17/L4/3GH
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	08/10/2015
Date of Start of Test:	22/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

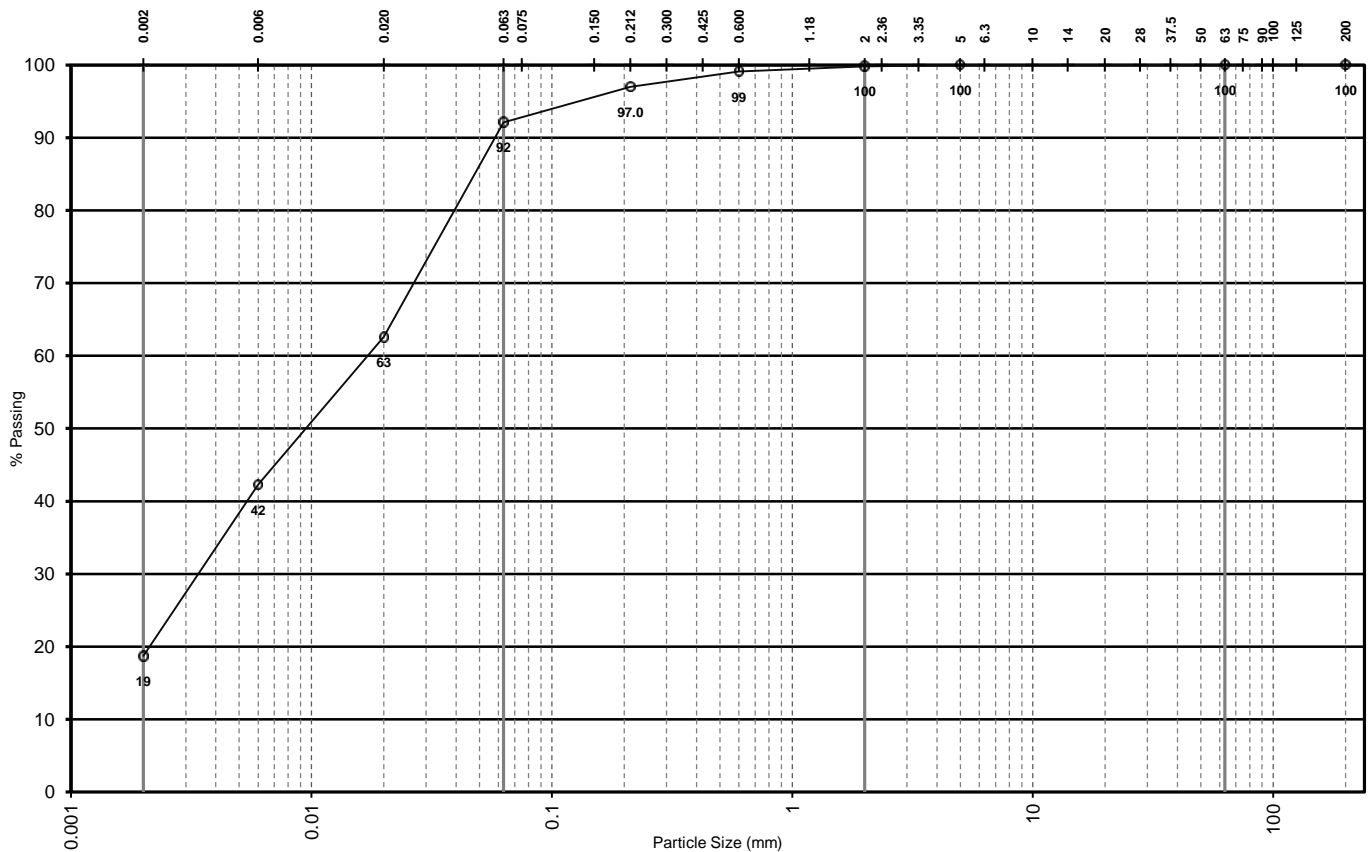
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435559: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	7.7
200	100.0	3.35		Silt	73.4
125		2.36		Clay	18.7
100		2.0	99.8		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.0		
28		0.150			
20		0.075			
14		0.063	92.1		
10		0.020	62.6		
6.3		0.006	42.3		
5.0	100.0	0.002	18.7		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435650

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class18/L13/3G
Date and Time of Sampling:	29/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



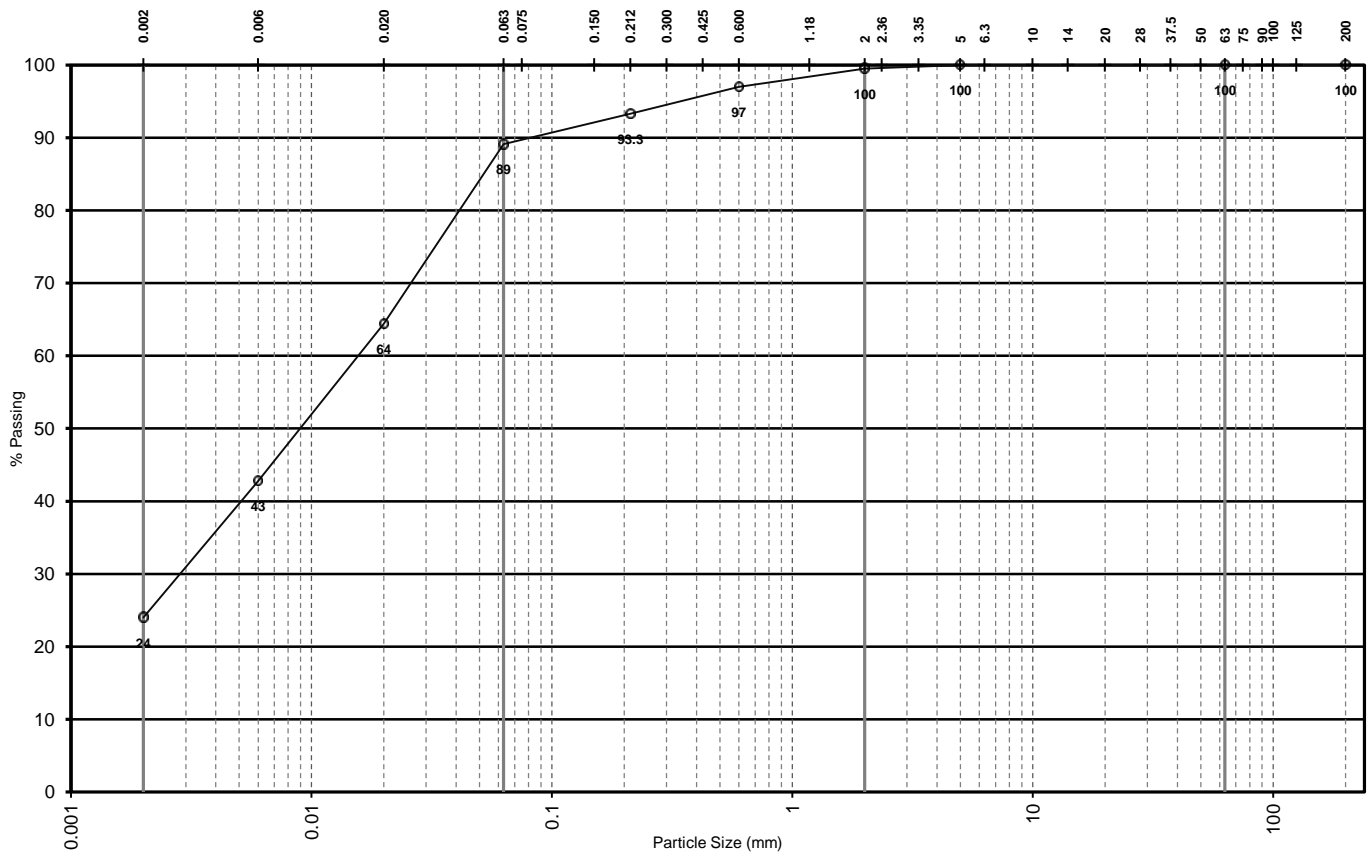
Eric Goulden
Technical Manager

Test Report Ref: STR 435650: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	10.4
200	100.0	3.35		Silt	65.1
125		2.36		Clay	24.0
100		2.0	99.5		
90		1.18			
75		0.600	97.0		
63	100.0	0.425			
50		0.300			
37.5		0.212	93.3		
28		0.150			
20		0.075			
14		0.063	89.1		
10		0.020	64.4		
6.3		0.006	42.8		
5.0	100.0	0.002	24.0		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	63 200
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435653

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class19/L19/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

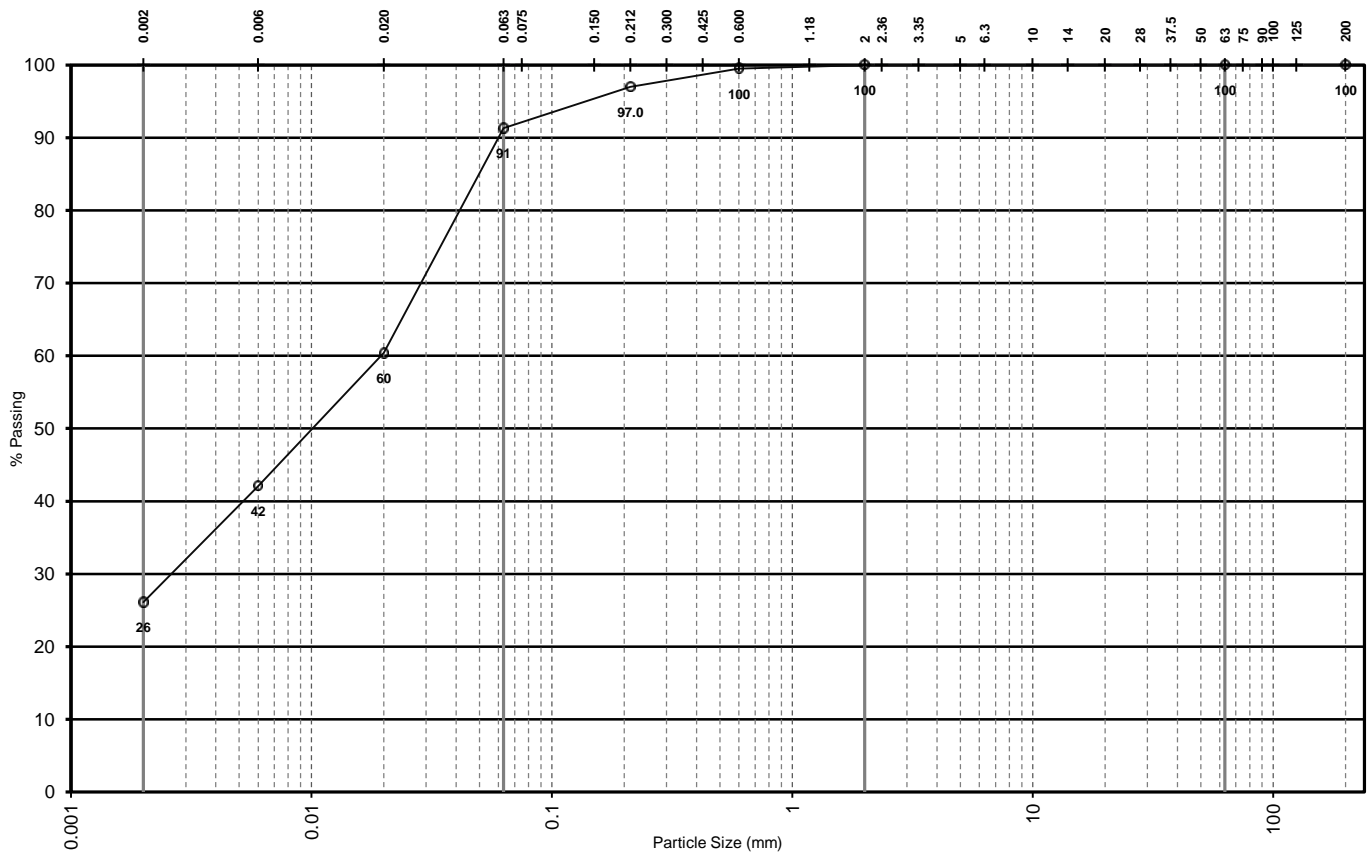
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435653: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	8.7
200	100.0	3.35		Silt	65.2
125		2.36		Clay	26.1
100		2.0	100.0		
90		1.18			
75		0.600	99.5		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.0		
28		0.150			
20		0.075			
14		0.063	91.3		
10		0.020	60.4		
6.3		0.006	42.1		
5.0		0.002	26.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435656

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class20/L21/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



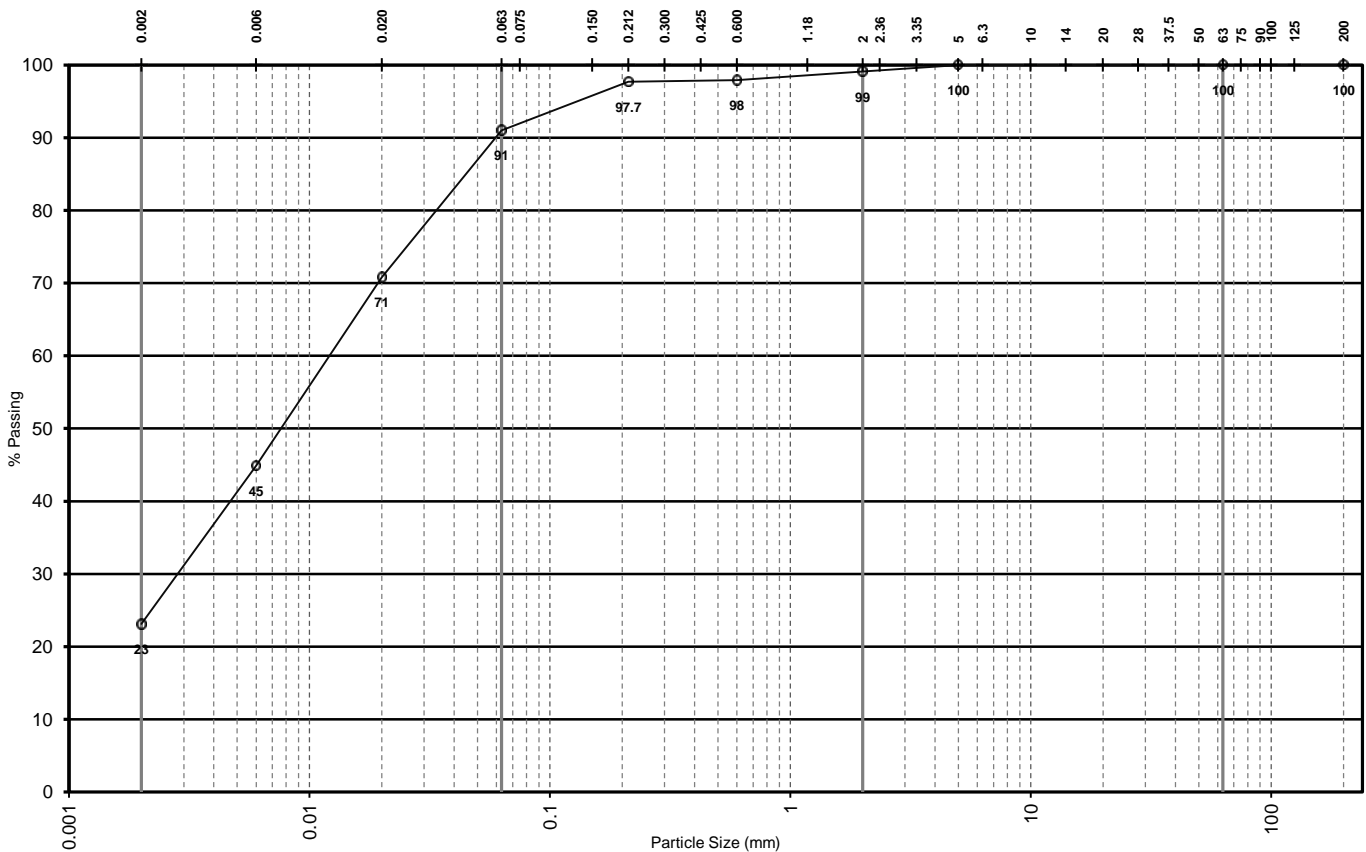
Eric Goulden
Technical Manager

Test Report Ref: STR 435656: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.9
				Sand	8.1
200	100.0	3.35		Silt	67.9
125		2.36		Clay	23.1
100		2.0	99.1		
90		1.18			
75		0.600	97.9		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.7		
28		0.150			
20		0.075			
14		0.063	91.0		
10		0.020	70.8		
6.3		0.006	44.9		
5.0	100.0	0.002	23.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435660

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class21/L23/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



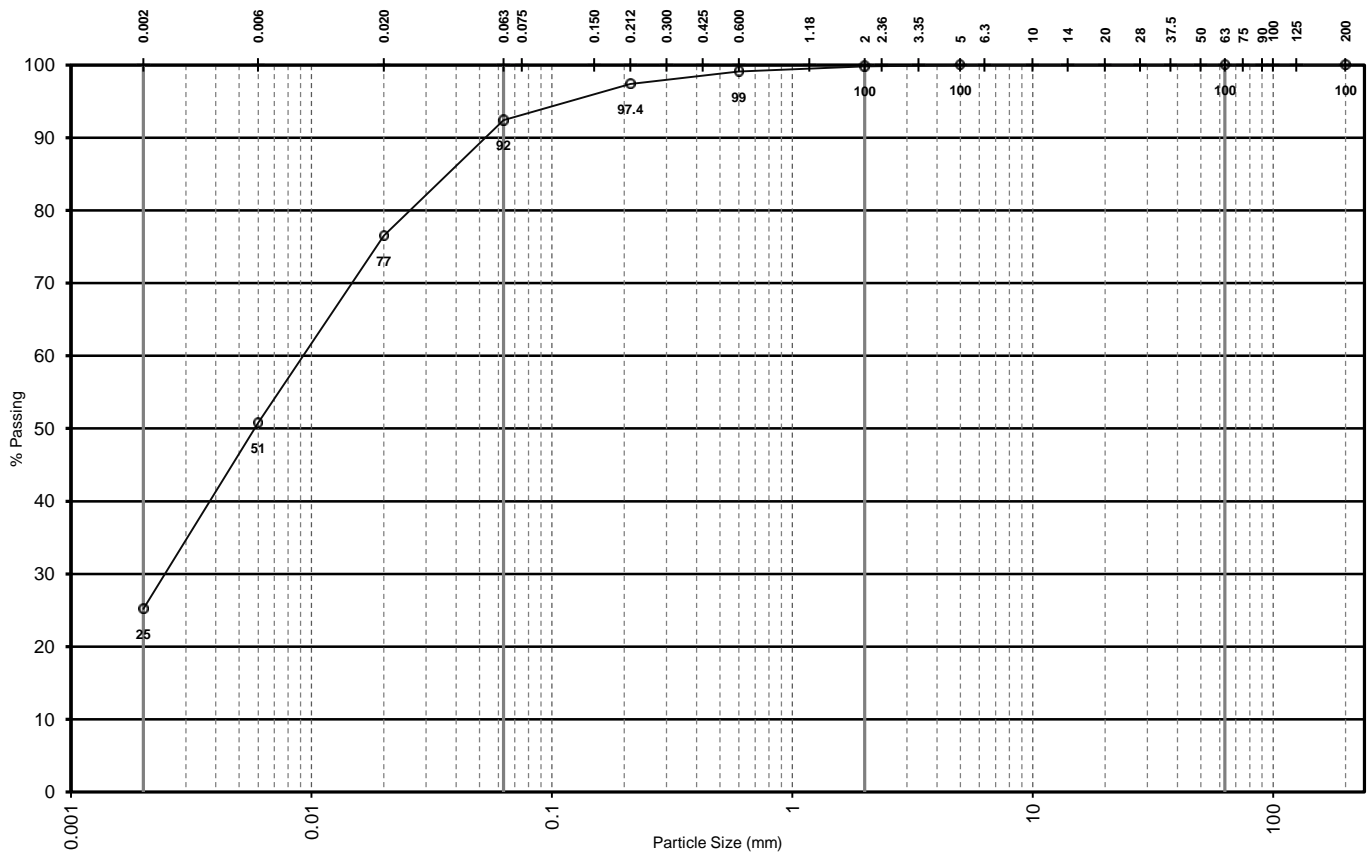
Eric Goulden
Technical Manager

Test Report Ref: STR 435660: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	7.4
200	100.0	3.35		Silt	67.2
125		2.36		Clay	25.2
100		2.0	99.8		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.4		
28		0.150			
20		0.075			
14		0.063	92.4		
10		0.020	76.5		
6.3		0.006	50.8		
5.0	100.0	0.002	25.2		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435665

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class22/L25/4GH
Date and Time of Sampling:	30/09/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

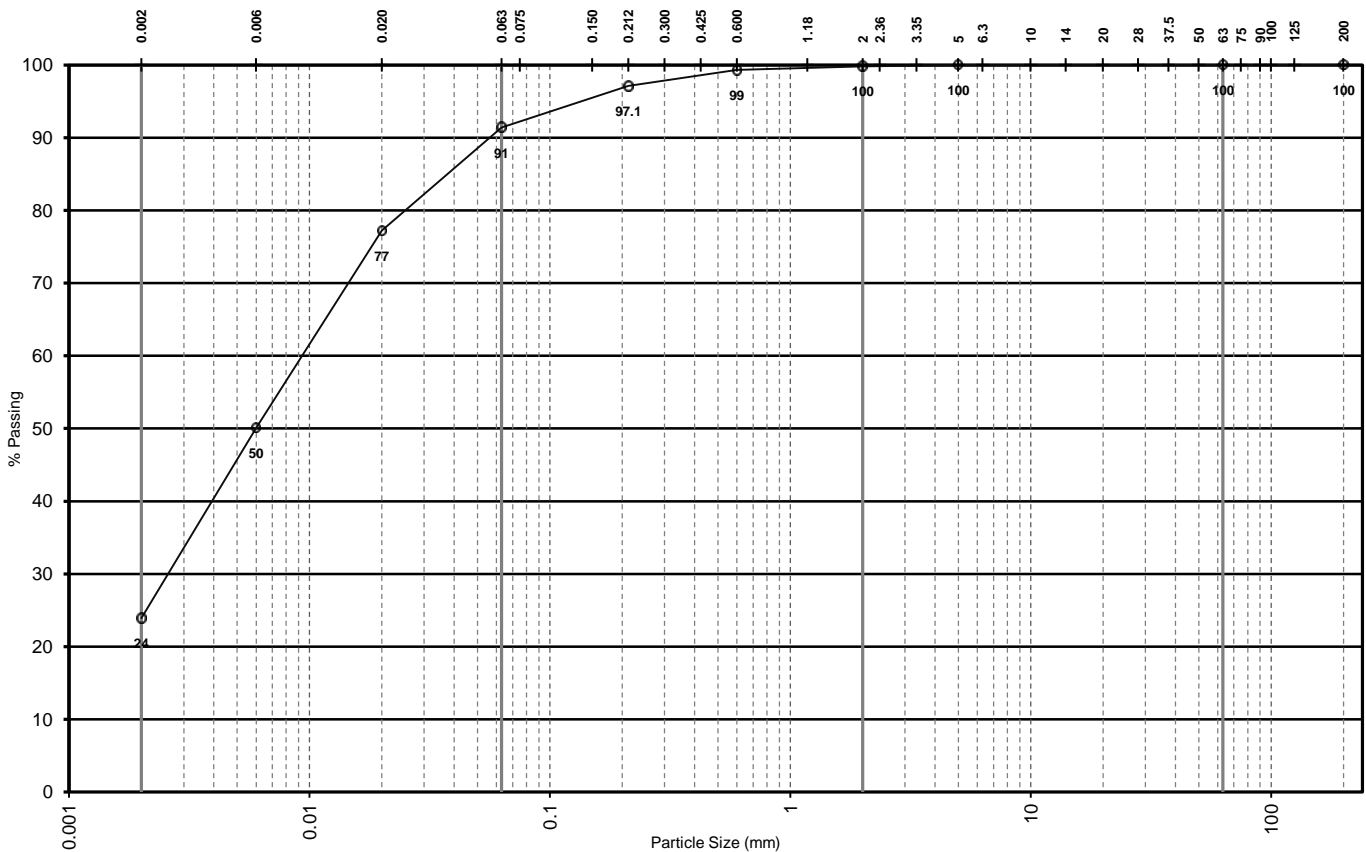
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435665: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	8.4
200	100.0	3.35		Silt	67.5
125		2.36		Clay	23.9
100		2.0	99.8		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.1		
28		0.150			
20		0.075			
14		0.063	91.4		
10		0.020	77.2		
6.3		0.006	50.1		
5.0	100.0	0.002	23.9		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	63 200
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435668

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class23/L27/4GH
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



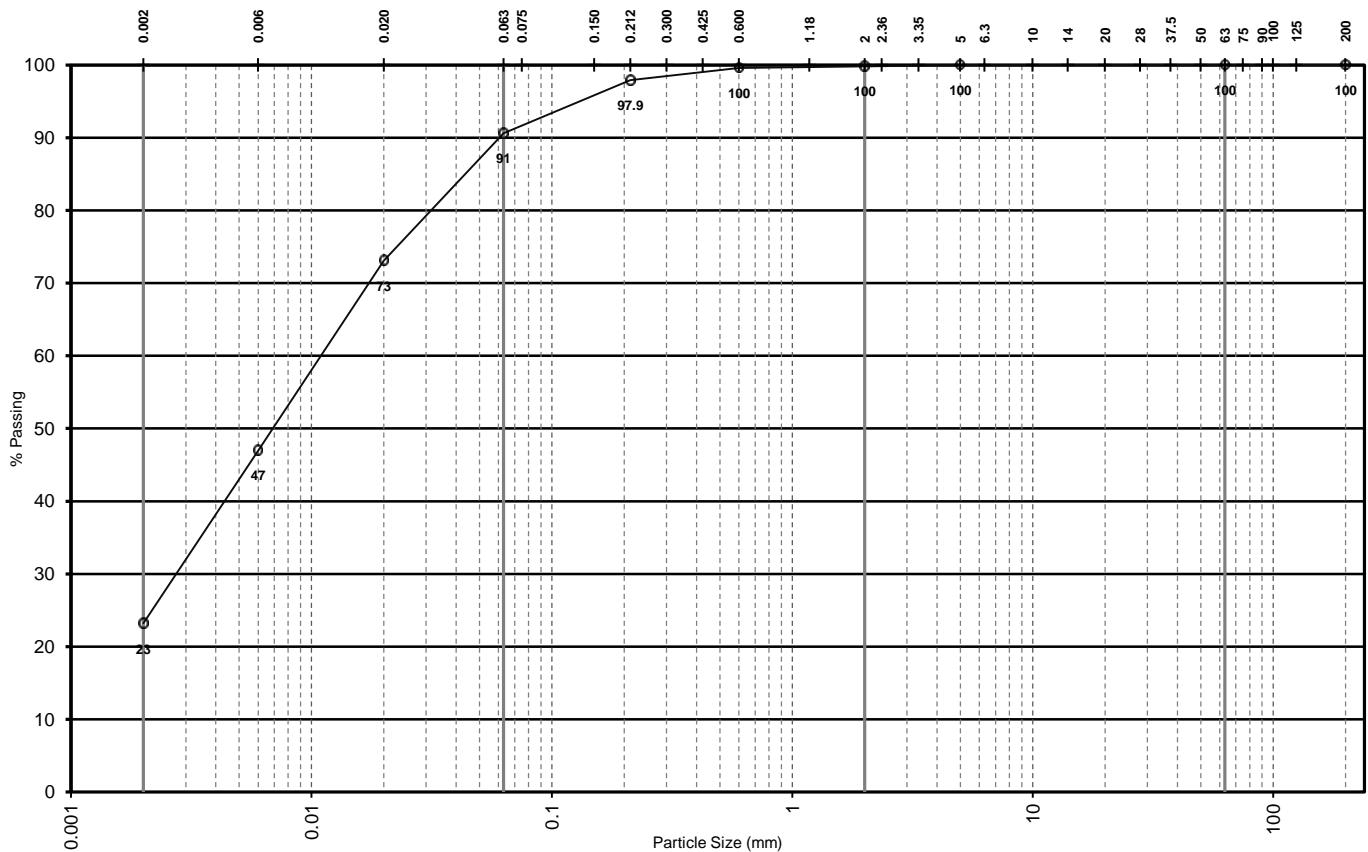
Eric Goulden
Technical Manager

Test Report Ref: STR 435668: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	9.2
200	100.0	3.35		Silt	67.4
125		2.36		Clay	23.2
100		2.0	99.8		
90		1.18			
75		0.600	99.6		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.9		
28		0.150			
20		0.075			
14		0.063	90.6		
10		0.020	73.1		
6.3		0.006	47.0		
5.0	100.0	0.002	23.2		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435671

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class24/L29/4GH
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



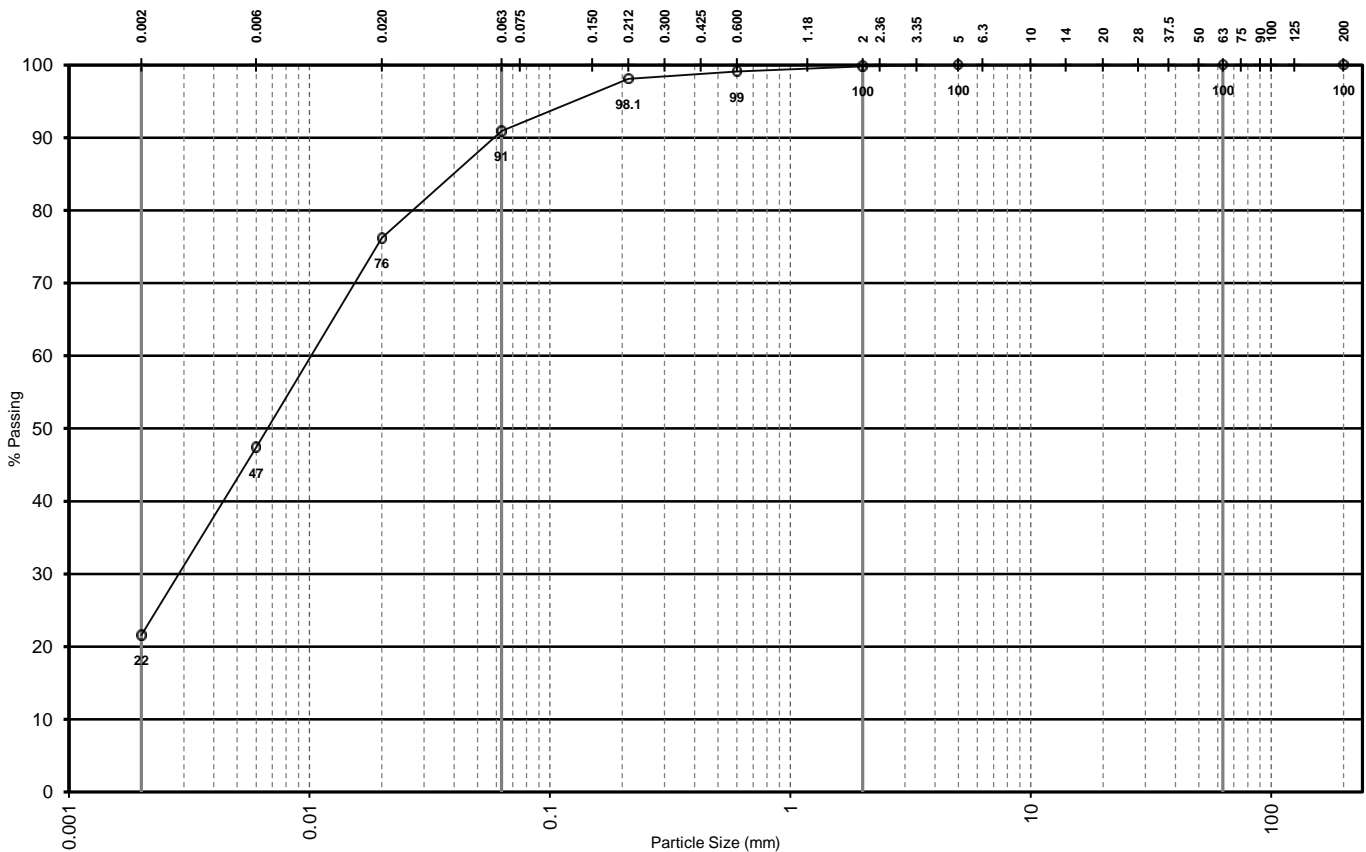
Eric Goulden
Technical Manager

Test Report Ref: STR 435671: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	8.9
200	100.0	3.35		Silt	69.3
125		2.36		Clay	21.6
100		2.0	99.8		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.1		
28		0.150			
20		0.075			
14		0.063	90.9		
10		0.020	76.2		
6.3		0.006	47.4		
5.0	100.0	0.002	21.6		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435674

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class25/L31/4GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



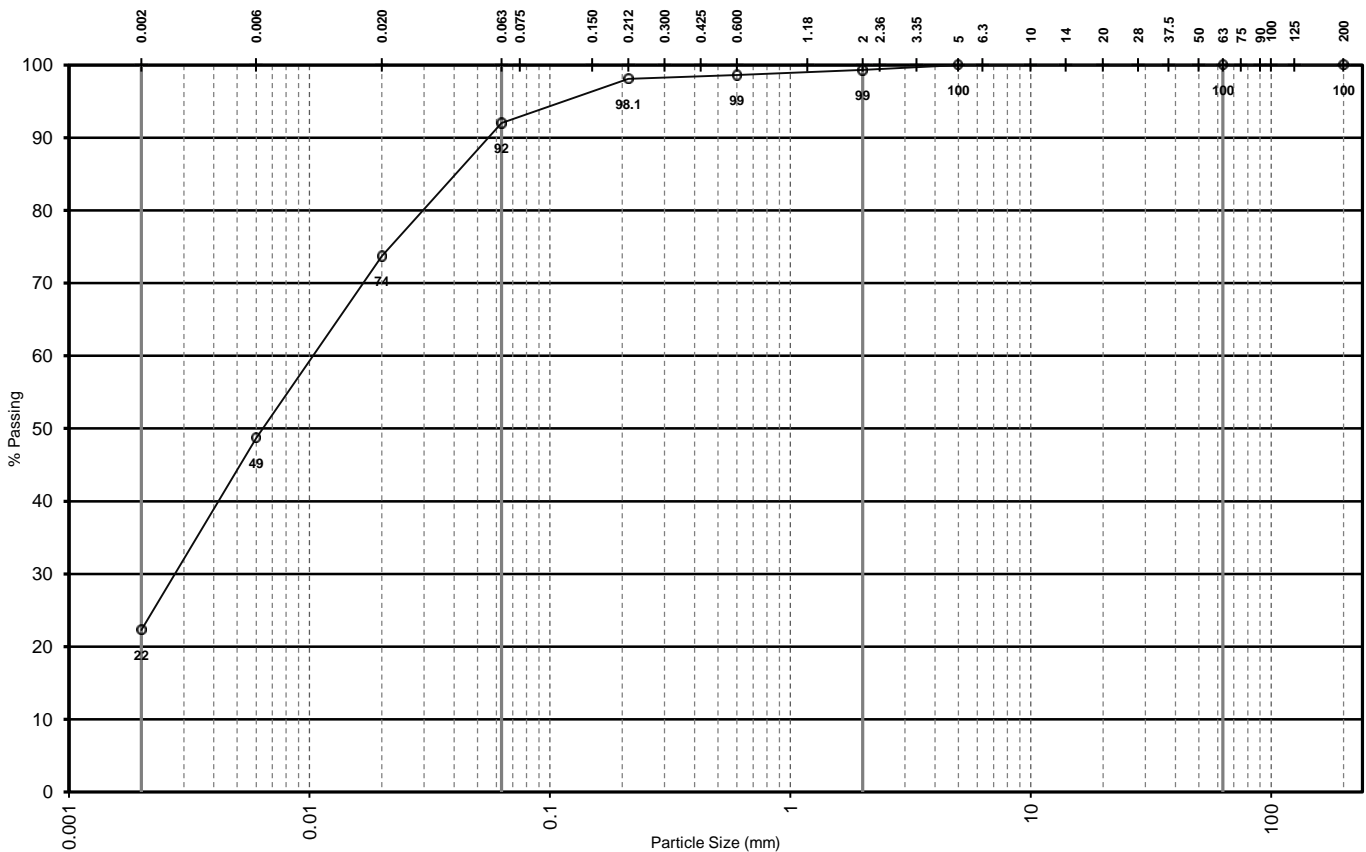
Eric Goulden
Technical Manager

Test Report Ref: STR 435674: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.7
				Sand	7.3
200	100.0	3.35		Silt	69.7
125		2.36		Clay	22.3
100		2.0	99.3		
90		1.18			
75		0.600	98.6		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.1		
28		0.150			
20		0.075			
14		0.063	92.0		
10		0.020	73.7		
6.3		0.006	48.7		
5.0	100.0	0.002	22.3		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
SILT			SAND			GRAVEL				

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435703

LS15 8GB

Page 1 of 2

Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class26/L33/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

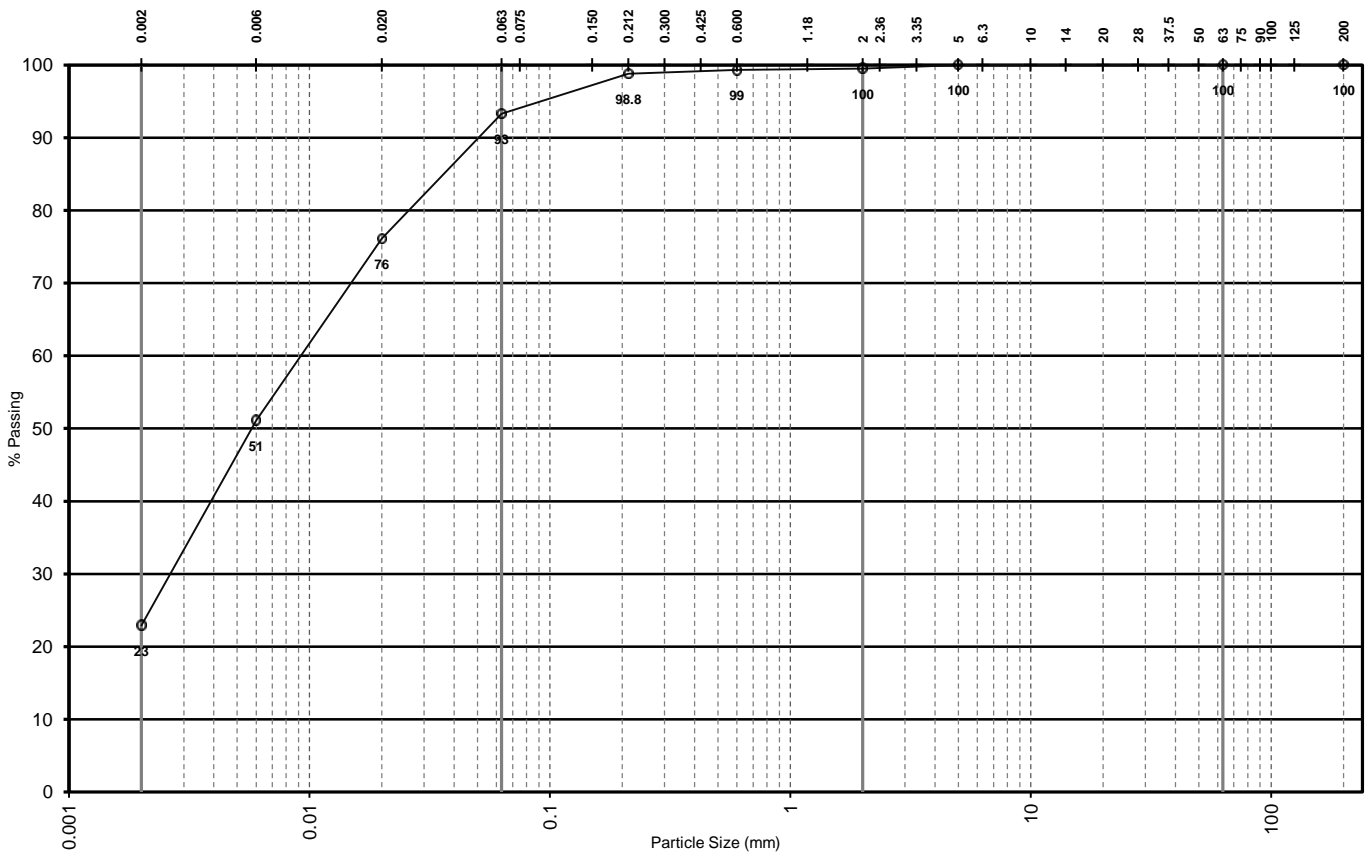
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435703: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	6.2
200	100.0	3.35		Silt	70.4
125		2.36		Clay	22.9
100		2.0	99.5		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.8		
28		0.150			
20		0.075			
14		0.063	93.3		
10		0.020	76.1		
6.3		0.006	51.1		
5.0	100.0	0.002	22.9		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435706

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class27/L34/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

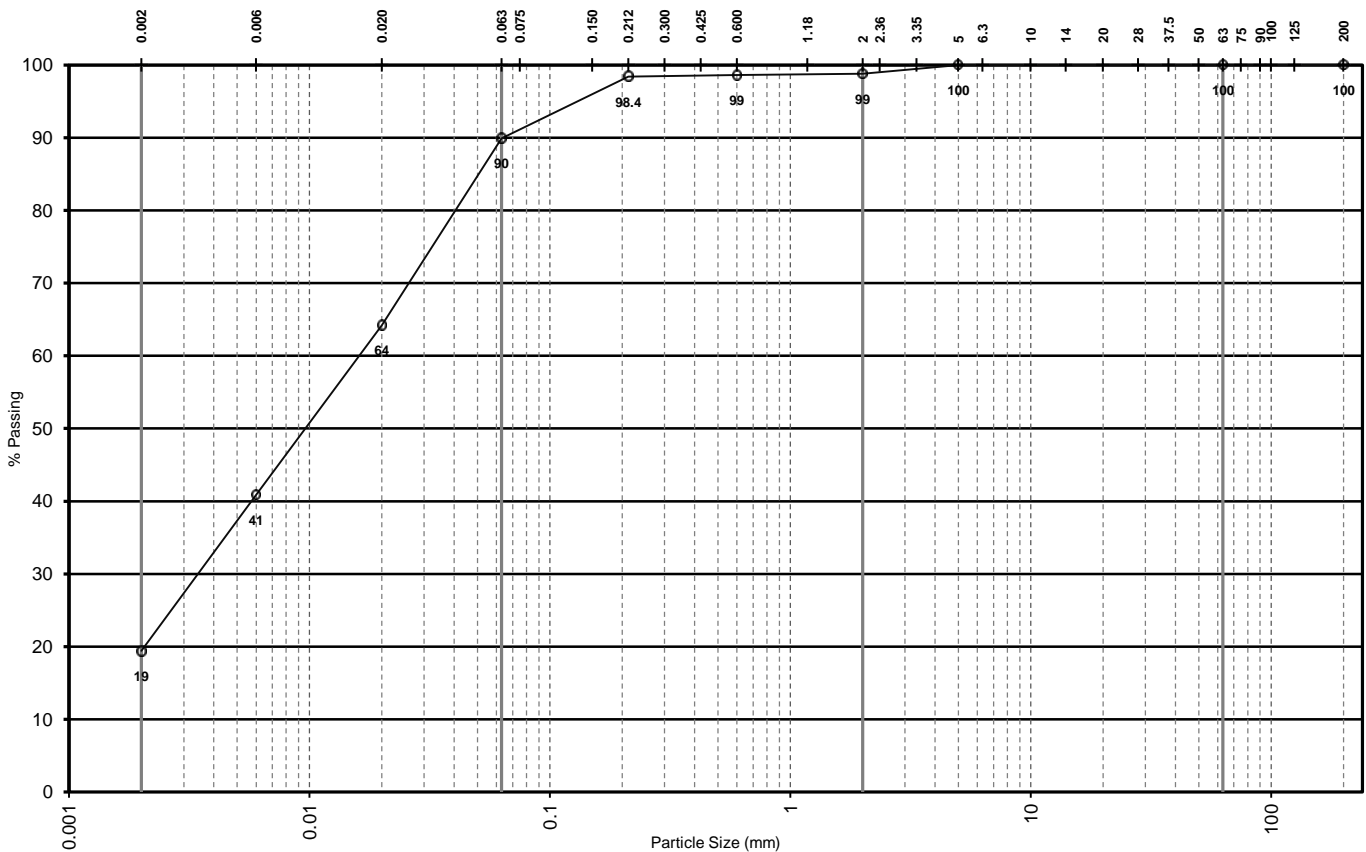
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435706: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.2
				Sand	8.9
200	100.0	3.35		Silt	70.5
125		2.36		Clay	19.4
100		2.0	98.8		
90		1.18			
75		0.600	98.6		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.4		
28		0.150			
20		0.075			
14		0.063	89.9		
10		0.020	64.2		
6.3		0.006	40.9		
5.0	100.0	0.002	19.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 435709

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55256
Client Ref. No:	Class28/L35/5GH
Date and Time of Sampling:	05/10/2015
Date of Receipt at Lab:	12/10/2015
Date of Start of Test:	16/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

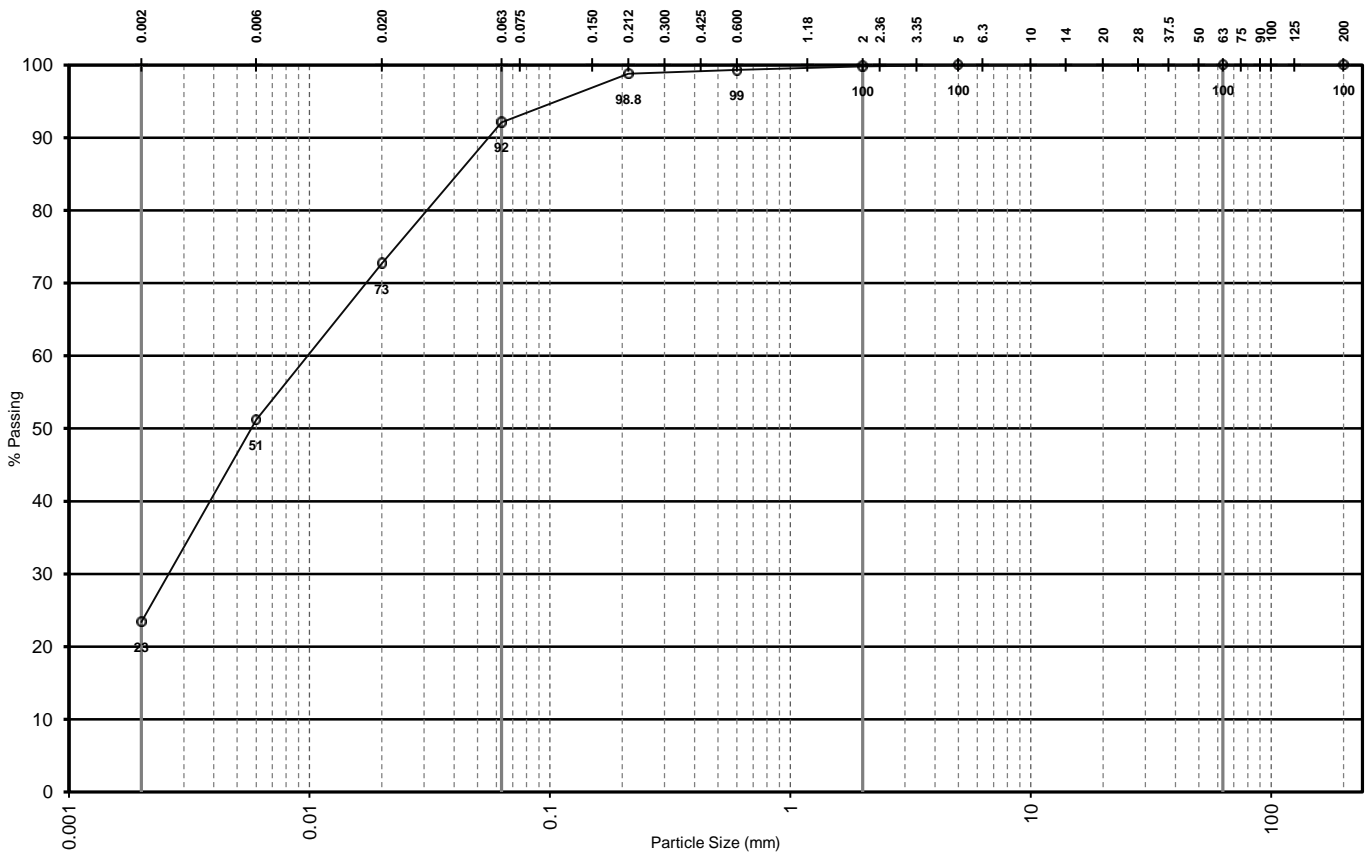
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 435709: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	7.7
200	100.0	3.35		Silt	68.7
125		2.36		Clay	23.4
100		2.0	99.8		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.8		
28		0.150			
20		0.075			
14		0.063	92.1		
10		0.020	72.7		
6.3		0.006	51.2		
5.0	100.0	0.002	23.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436393

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class29/L1/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

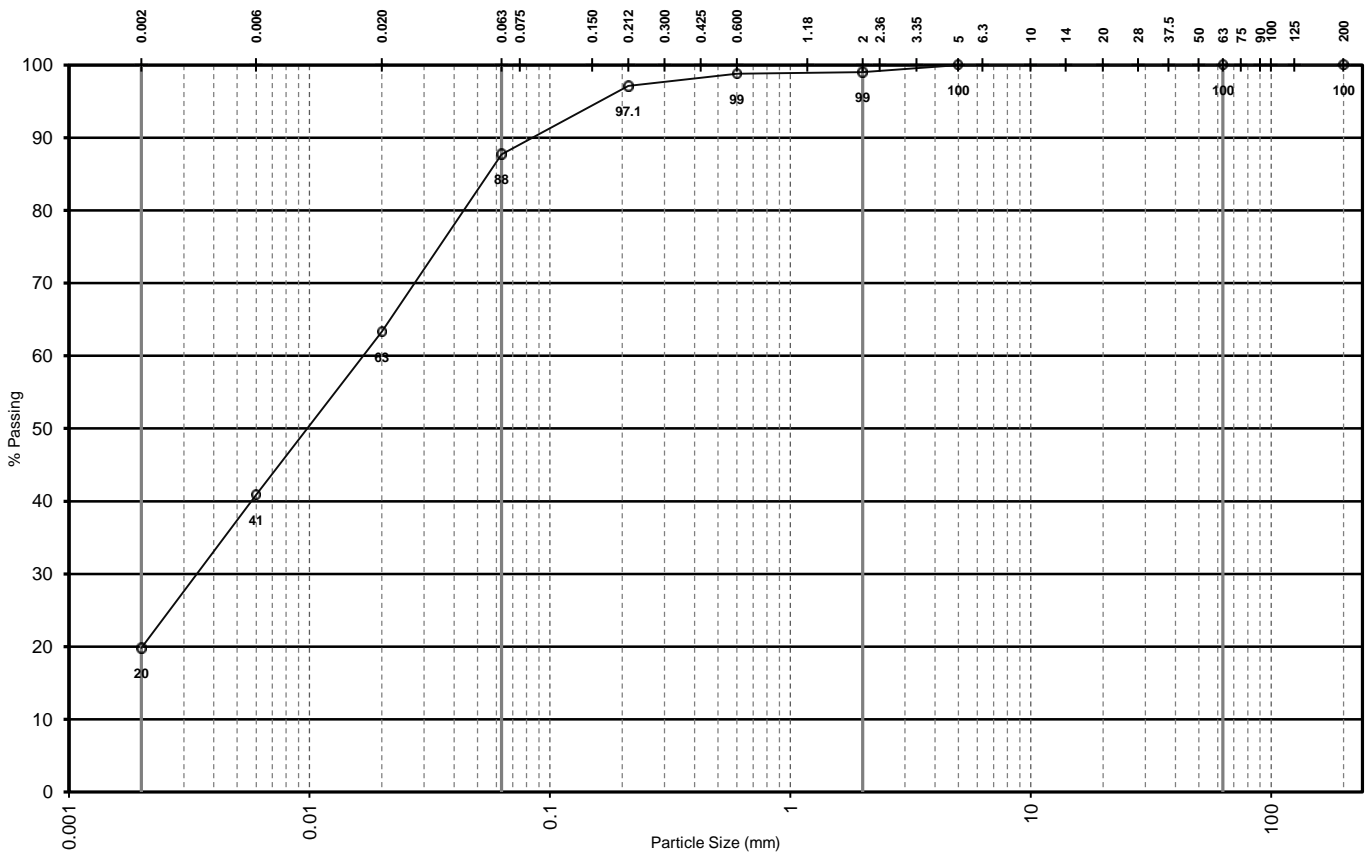
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 436393: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.0
				Sand	11.3
				Silt	67.9
				Clay	19.8
200	100.0	3.35			
125		2.36			
100		2.0	99.0		
90		1.18			
75		0.600	98.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.1		
28		0.150			
20		0.075			
14		0.063	87.7		
10		0.020	63.3		
6.3		0.006	40.9		
5.0	100.0	0.002	19.8		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436396

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class30/L2/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



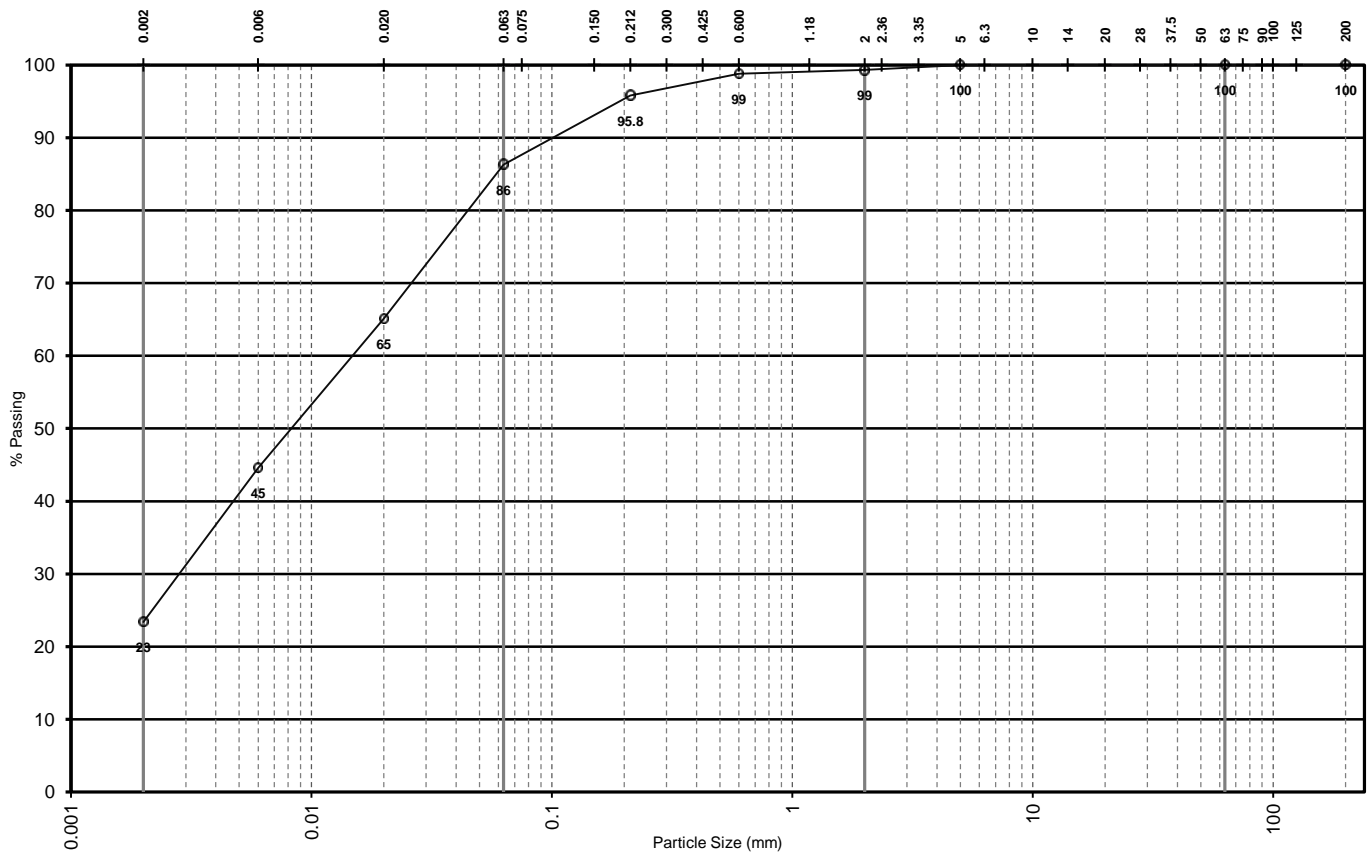
Eric Goulden
Technical Manager

Test Report Ref: STR 436396: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.7
				Sand	13.0
				Silt	62.9
				Clay	23.4
200	100.0	3.35			
125		2.36			
100		2.0	99.3		
90		1.18			
75		0.600	98.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	95.8		
28		0.150			
20		0.075			
14		0.063	86.3		
10		0.020	65.1		
6.3		0.006	44.6		
5.0	100.0	0.002	23.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436401

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class31/L3/3CF
Date and Time of Sampling:	01/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

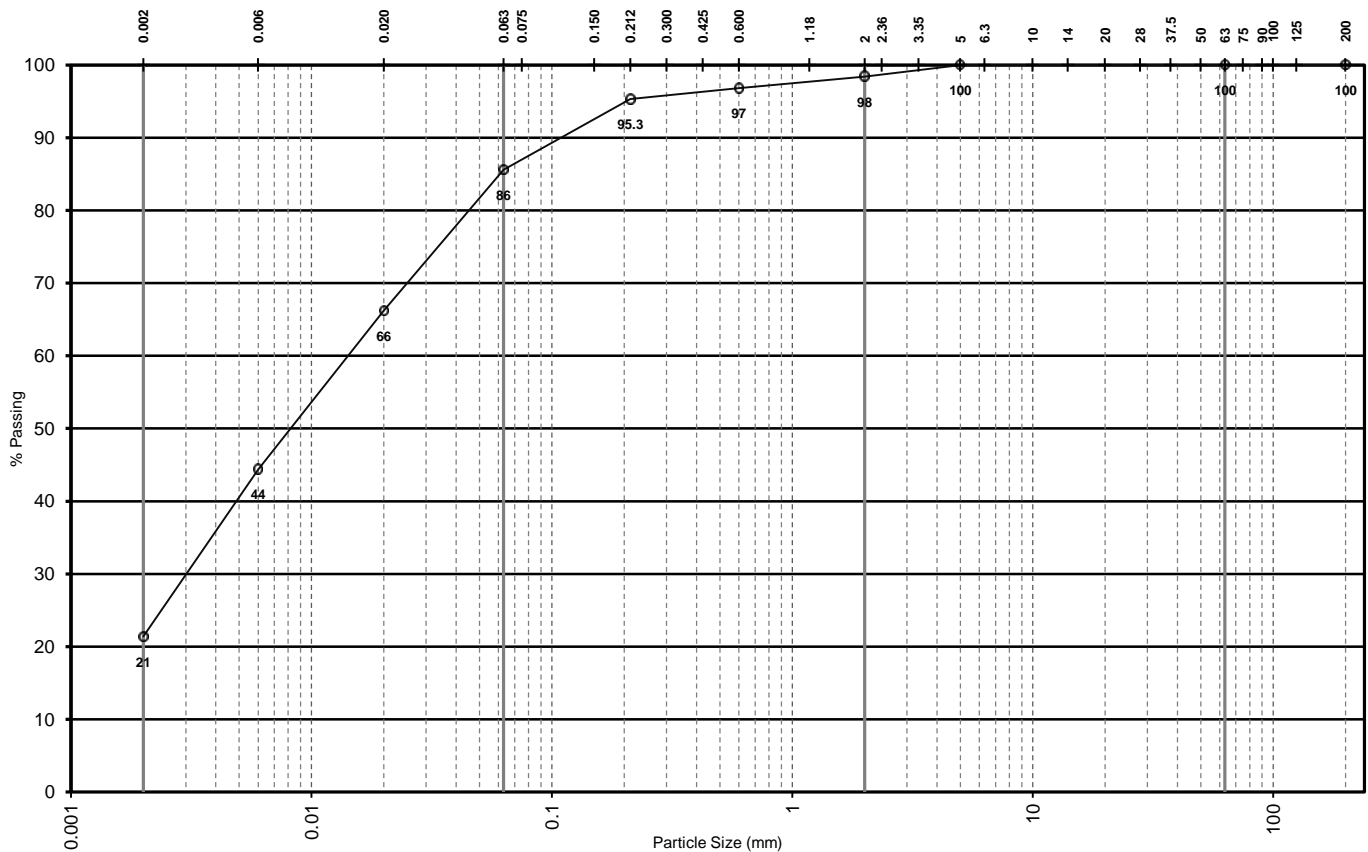
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 436401: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.6
				Sand	12.8
				Silt	64.2
				Clay	21.4
200	100.0	3.35			
125		2.36			
100		2.0	98.4		
90		1.18			
75		0.600	96.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	95.3		
28		0.150			
20		0.075			
14		0.063	85.6		
10		0.020	66.2		
6.3		0.006	44.4		
5.0	100.0	0.002	21.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436404

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class32/L4/3CF
Date and Time of Sampling:	02/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



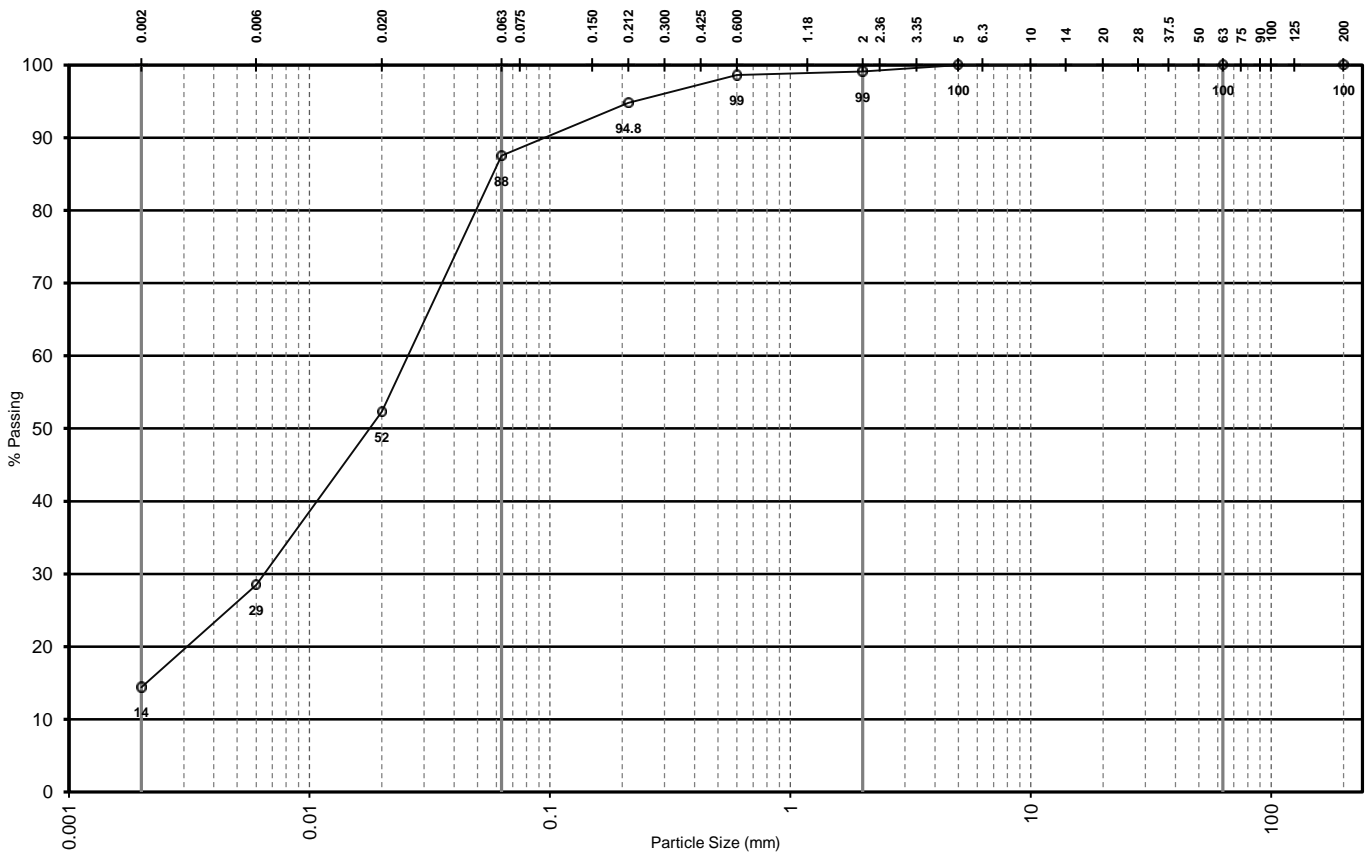
Eric Goulden
Technical Manager

Test Report Ref: STR 436404: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.9
				Sand	11.6
				Silt	73.1
				Clay	14.4
200	100.0	3.35			
125		2.36			
100		2.0	99.1		
90		1.18			
75		0.600	98.6		
63	100.0	0.425			
50		0.300			
37.5		0.212	94.8		
28		0.150			
20		0.075			
14		0.063	87.5		
10		0.020	52.3		
6.3		0.006	28.5		
5.0	100.0	0.002	14.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	63 200
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436408

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class33/L36/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



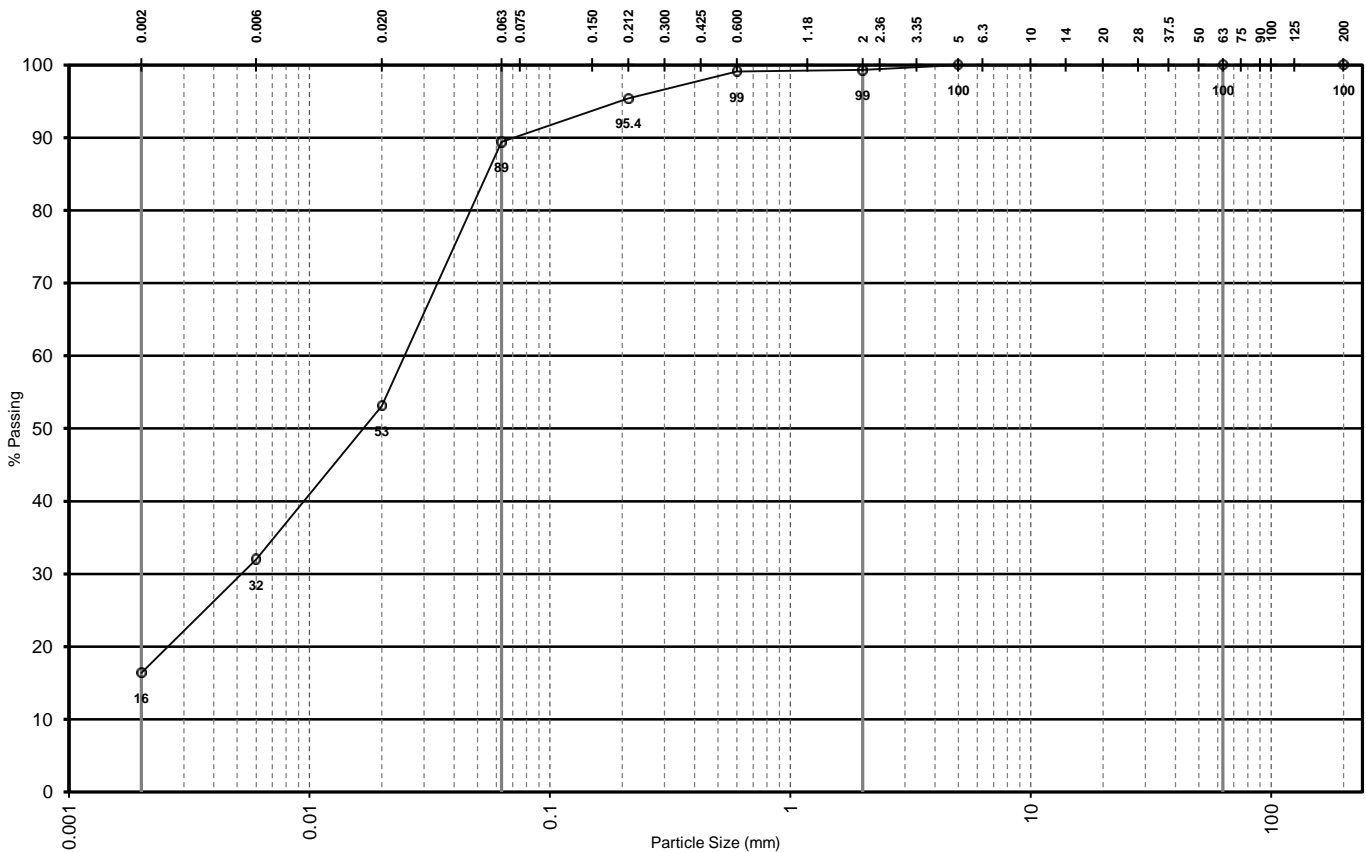
Eric Goulden
Technical Manager

Test Report Ref: STR 436408: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.7
				Sand	9.9
200	100.0	3.35		Silt	73.0
125		2.36		Clay	16.4
100		2.0	99.3		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	95.4		
28		0.150			
20		0.075			
14		0.063	89.4		
10		0.020	53.1		
6.3		0.006	32.0		
5.0	100.0	0.002	16.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436411

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class34/L38/5GH
Date and Time of Sampling:	06/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



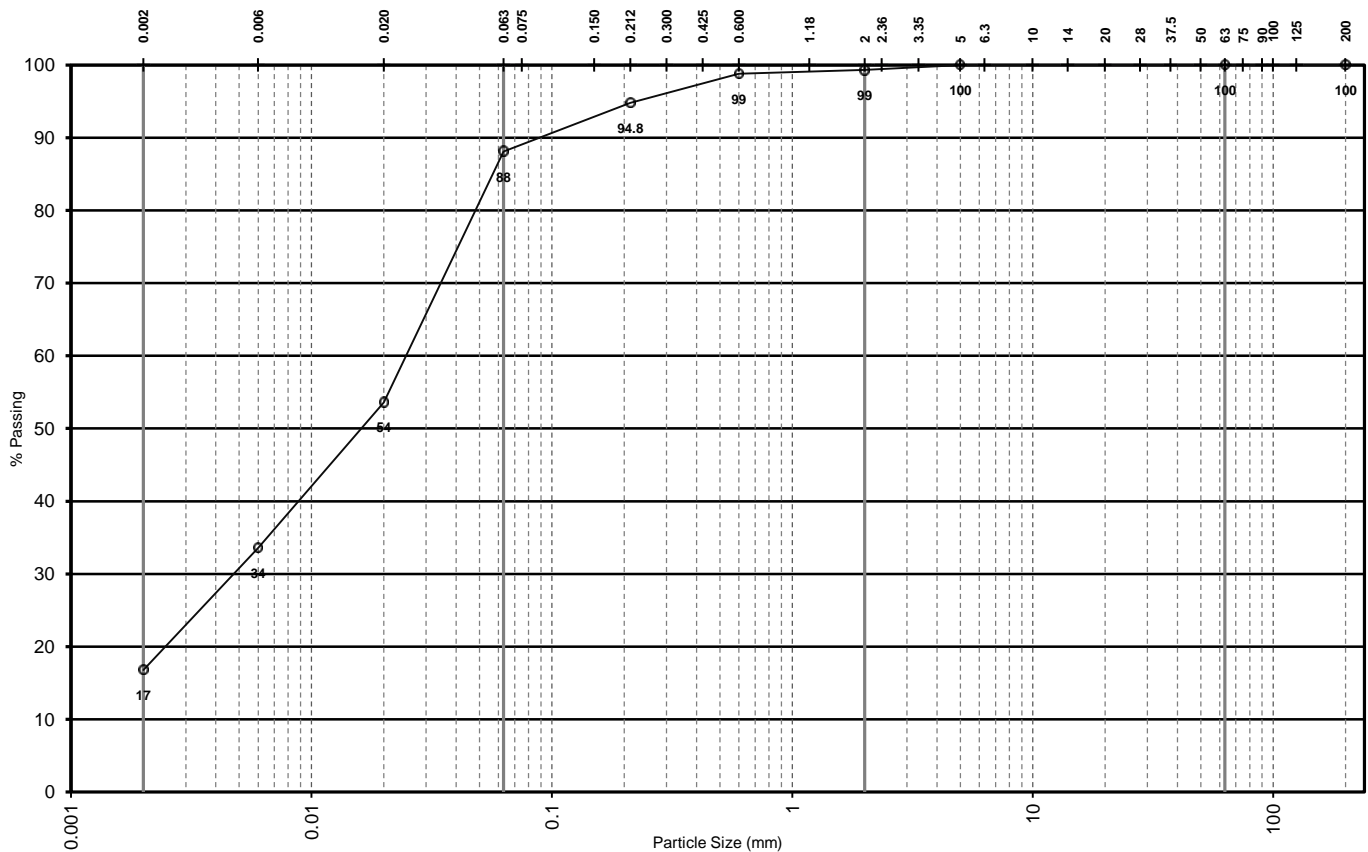
Eric Goulden
Technical Manager

Test Report Ref: STR 436411: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.7
				Sand	11.2
200	100.0	3.35		Silt	71.3
125		2.36		Clay	16.8
100		2.0	99.3		
90		1.18			
75		0.600	98.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	94.8		
28		0.150			
20		0.075			
14		0.063	88.1		
10		0.020	53.6		
6.3		0.006	33.6		
5.0	100.0	0.002	16.8		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436415

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class35/L39/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

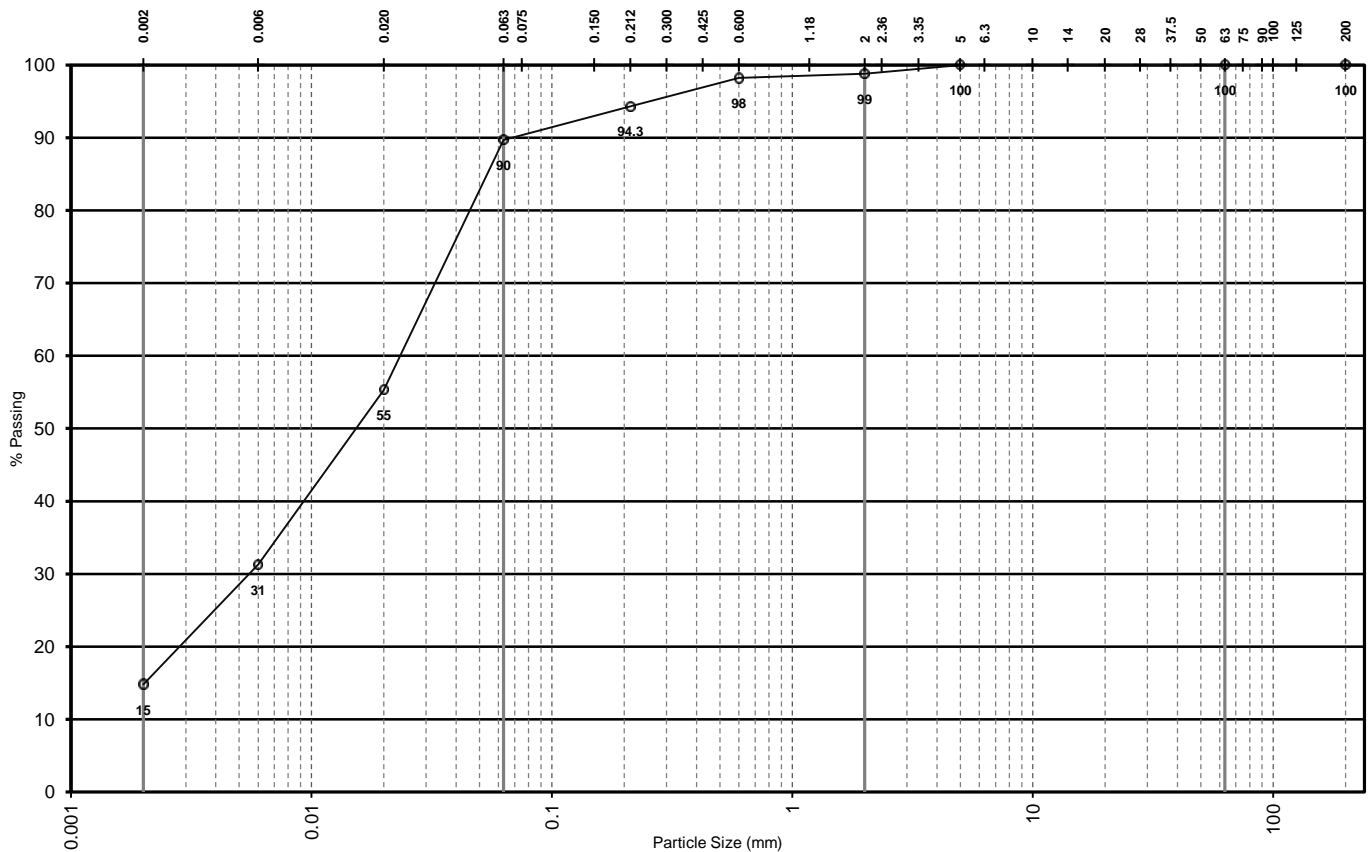
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 436415: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	1.2
				Sand	9.1
200	100.0	3.35		Silt	74.9
125		2.36		Clay	14.8
100		2.0	98.8		
90		1.18			
75		0.600	98.2		
63	100.0	0.425			
50		0.300			
37.5		0.212	94.3		
28		0.150			
20		0.075			
14		0.063	89.7		
10		0.020	55.3		
6.3		0.006	31.3		
5.0	100.0	0.002	14.8		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436418

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class36/L40/5GH
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



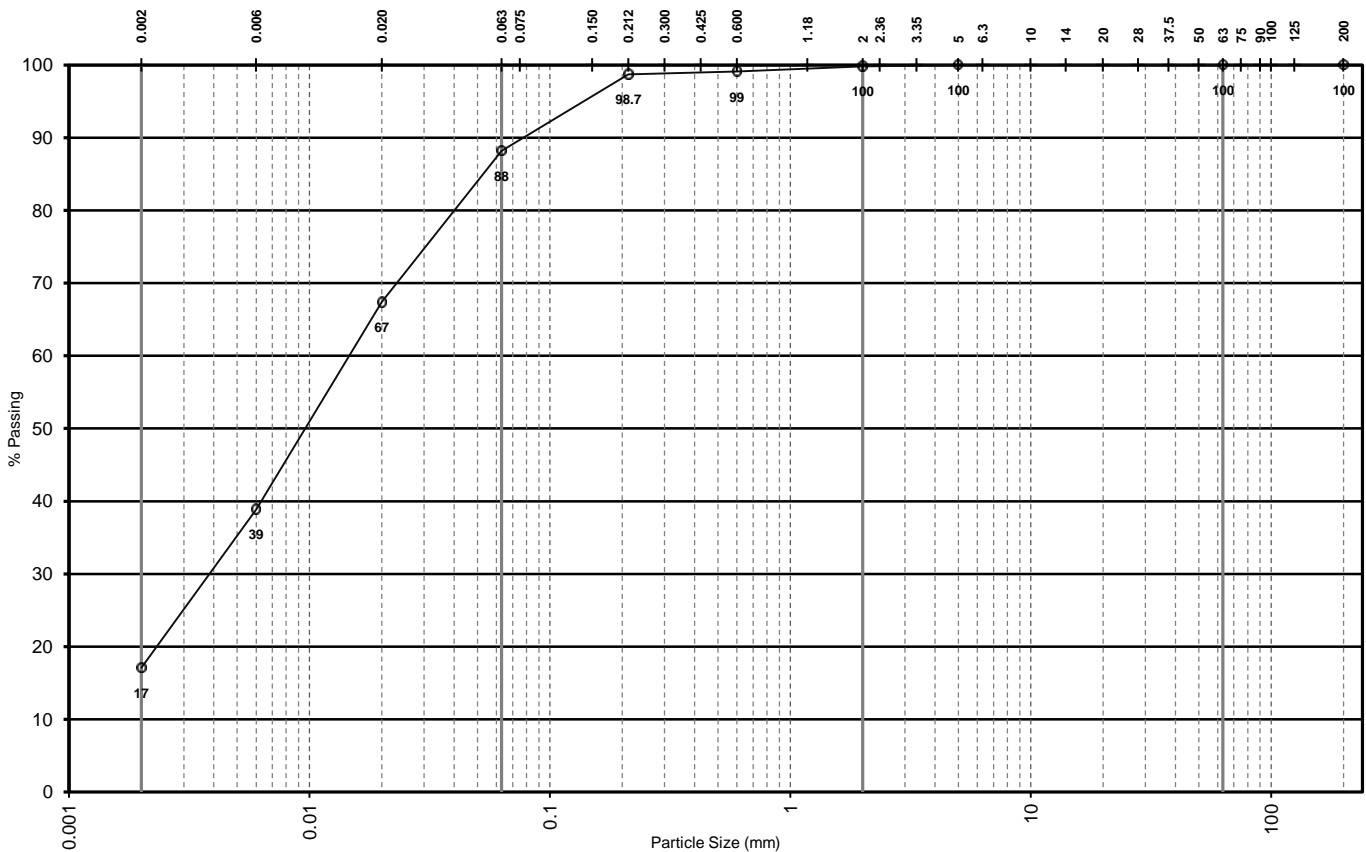
Eric Goulden
Technical Manager

Test Report Ref: STR 436418: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.2
				Sand	11.6
				Silt	71.1
				Clay	17.1
200	100.0	3.35			
125		2.36			
100		2.0	99.8		
90		1.18			
75		0.600	99.1		
63	100.0	0.425			
50		0.300			
37.5		0.212	98.7		
28		0.150			
20		0.075			
14		0.063	88.2		
10		0.020	67.4		
6.3		0.006	38.9		
5.0	100.0	0.002	17.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436422

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class37/L1/3CF
Date and Time of Sampling:	08/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



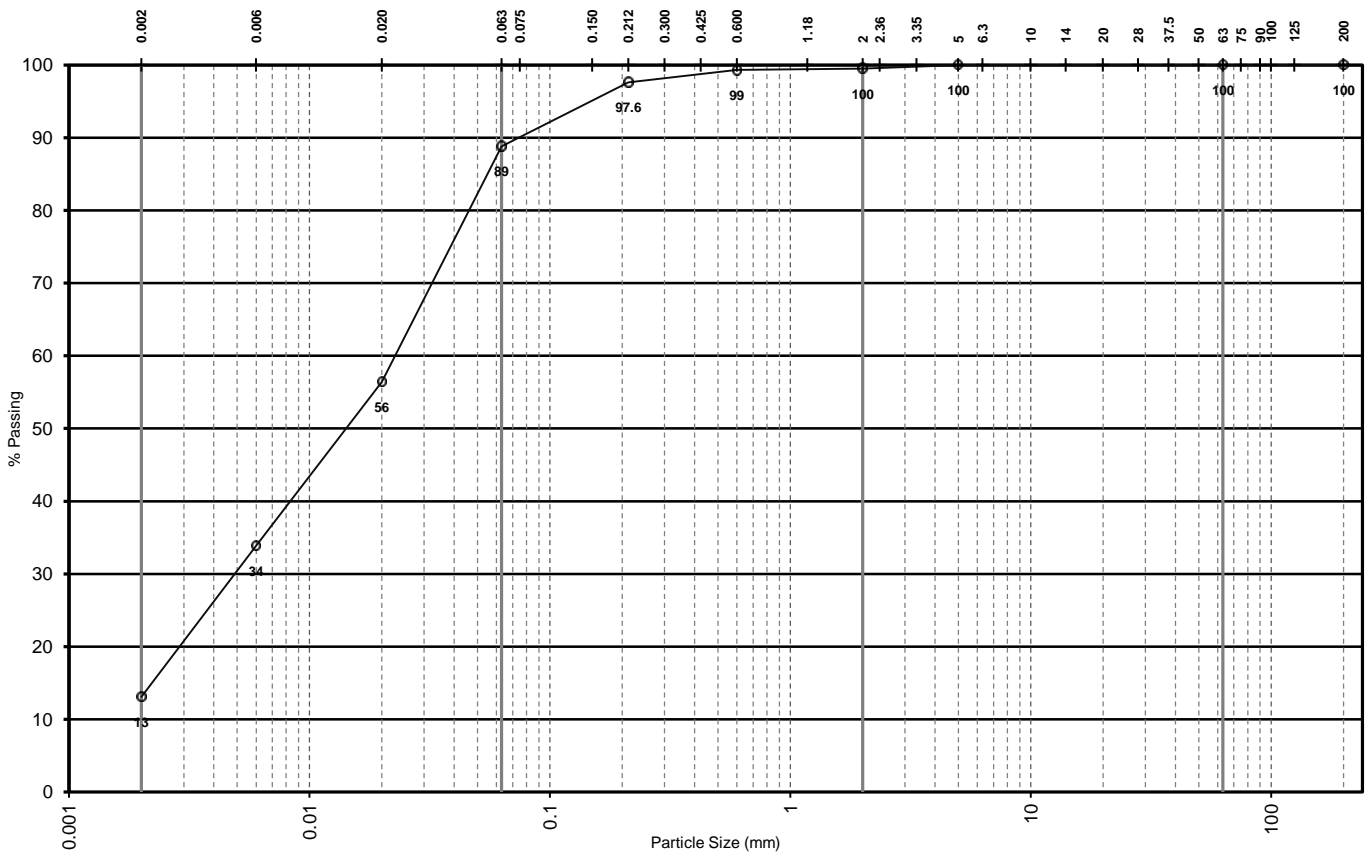
Eric Goulden
Technical Manager

Test Report Ref: STR 436422: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	10.7
				Silt	75.7
				Clay	13.1
200	100.0	3.35			
125		2.36			
100		2.0	99.5		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.6		
28		0.150			
20		0.075			
14		0.063	88.8		
10		0.020	56.4		
6.3		0.006	33.9		
5.0	100.0	0.002	13.1		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20		
	SILT			SAND			GRAVEL				
										63	200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436425

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class38/L2/3CF
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



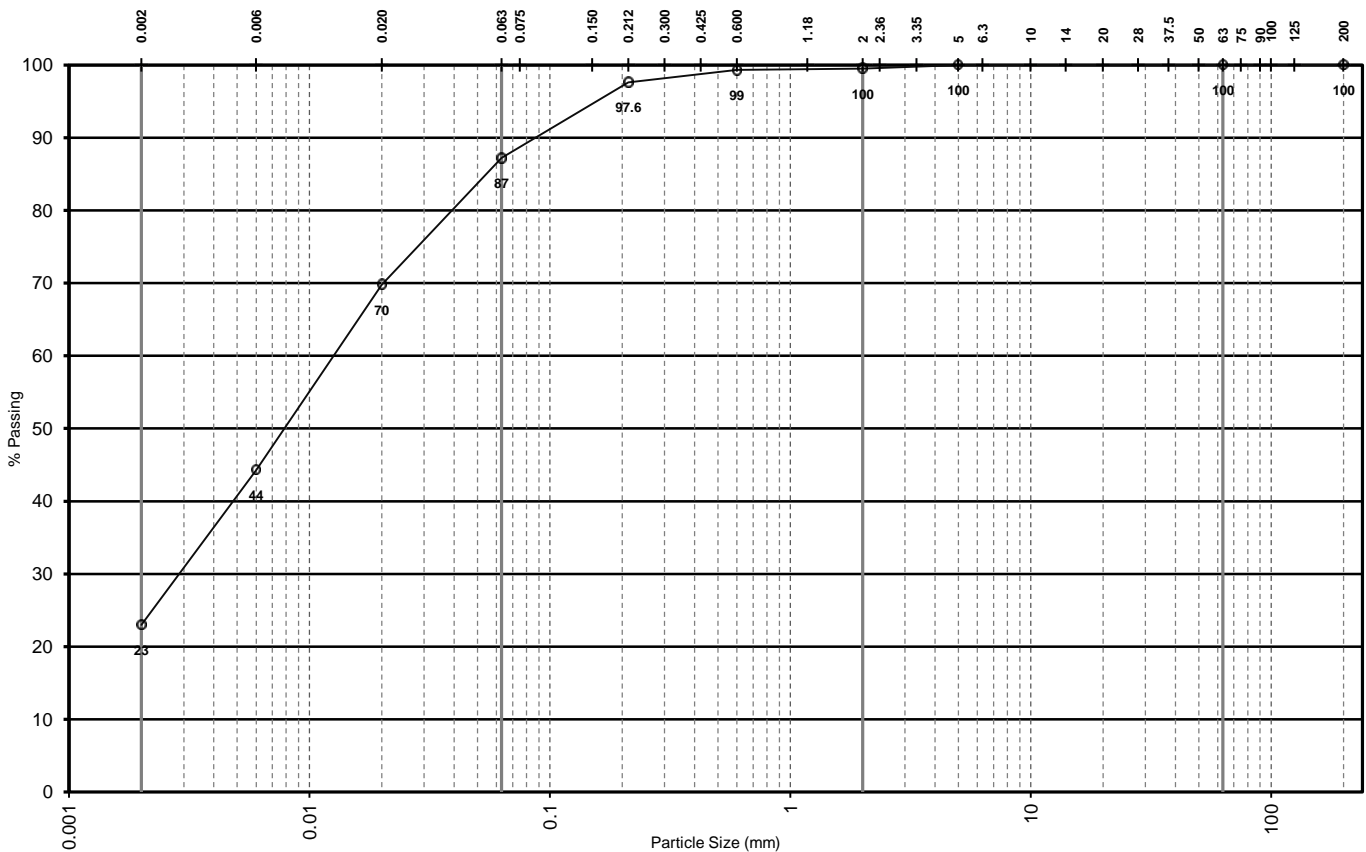
Eric Goulden
Technical Manager

Test Report Ref: STR 436425: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	12.3
				Silt	64.2
				Clay	23.0
200	100.0	3.35			
125		2.36			
100		2.0	99.5		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.6		
28		0.150			
20		0.075			
14		0.063	87.2		
10		0.020	69.8		
6.3		0.006	44.3		
5.0	100.0	0.002	23.0		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436428

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class39/L3/4B
Date and Time of Sampling:	09/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:-



Meical Owen
Assistant Laboratory Manager

Approved by: -



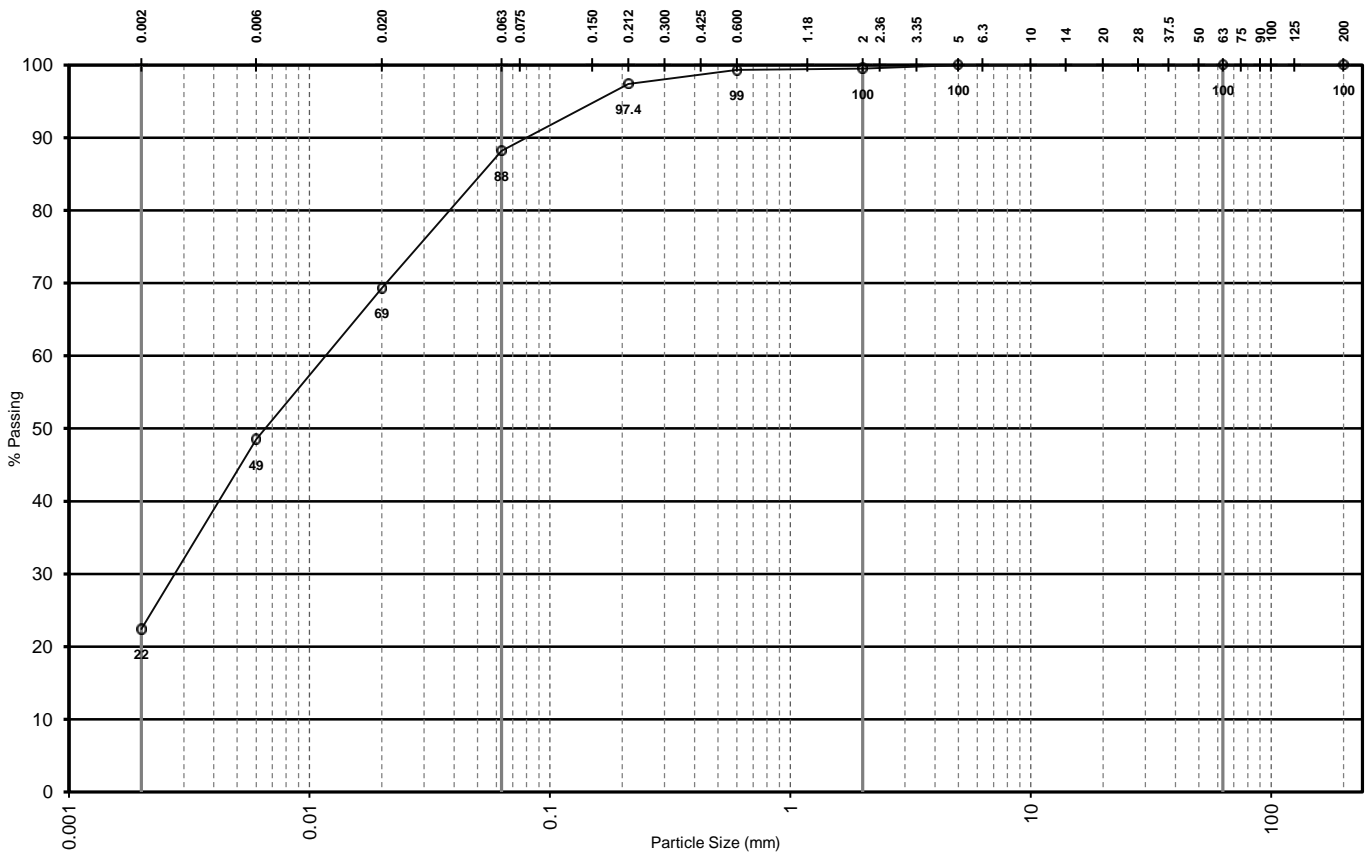
Eric Goulden
Technical Manager

Test Report Ref: STR 436428: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.5
				Sand	11.3
200	100.0	3.35		Silt	65.8
125		2.36		Clay	22.4
100		2.0	99.5		
90		1.18			
75		0.600	99.3		
63	100.0	0.425			
50		0.300			
37.5		0.212	97.4		
28		0.150			
20		0.075			
14		0.063	88.2		
10		0.020	69.3		
6.3		0.006	48.5		
5.0	100.0	0.002	22.4		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			
										63 200

Stratus Environmental Limited
4245 Park Approach
Thorpe Park
Leeds

Date: 20 November 2015
Test Report Ref: STR 436433

LS15 8GB

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Contract: Hafod Landfill - Cell 4 Phase 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a soil sample-washing and sieving method in accordance with **BS1377-Part2-1990 Clause 9.2**
Sedimentation by pipette method to **BS 1377: Part 2: 1990: clause 9.4.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S55323
Client Ref. No:	Class40/L4/3CF
Date and Time of Sampling:	12/10/2015
Date of Receipt at Lab:	15/10/2015
Date of Start of Test:	19/10/2015
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Disturbed Bulk Sample
Sampled By:	Client
Material Description:	Red/brown sandy very silty CLAY
Target Specification:	N/A


RESULTS:

SEE ATTACHED

Comments

None

Certificate
Prepared by:- 
Meical Owen
Assistant Laboratory Manager

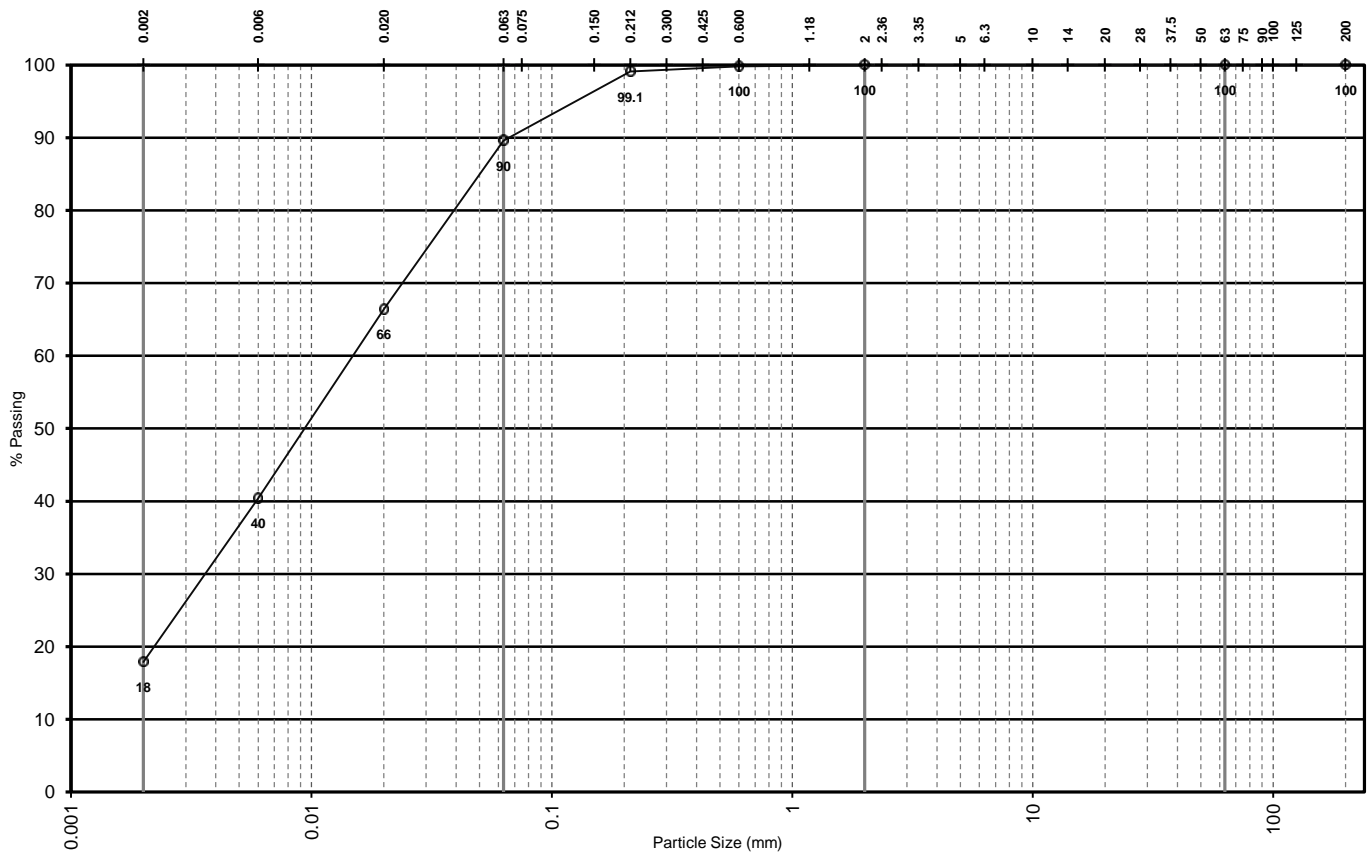
Approved by: - 
Eric Goulden
Technical Manager

Test Report Ref: STR 436433: Page 2 of 2

MATERIAL DESCRIPTION

Red/brown sandy very silty CLAY

Method of pre-treatment:		N/A			
Sieve Size mm	% Passing	Sieve Size mm	% Passing	Cobbles	0.0
				Gravel	0.0
				Sand	10.4
200	100.0	3.35		Silt	71.7
125		2.36		Clay	17.9
100		2.0	100.0		
90		1.18			
75		0.600	99.8		
63	100.0	0.425			
50		0.300			
37.5		0.212	99.1		
28		0.150			
20		0.075			
14		0.063	89.6		
10		0.020	66.4		
6.3		0.006	40.4		
5.0		0.002	17.9		



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	0.002	0.006	0.02	0.063	0.2	0.63	2.0	6.3	20	
	SILT			SAND			GRAVEL			