

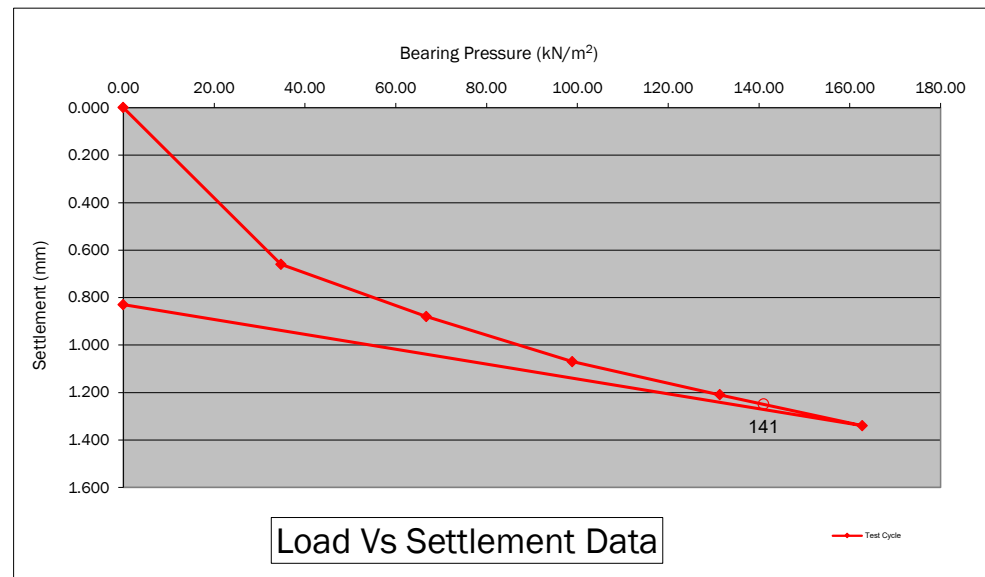
Appendix 9 : CBR Test Certificates

Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)		Contract Test Reference: DN3565/1A	REPORT NO: DNR/78336A
		Clients Reference: DN3565/1A	Report Date: 28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	1	Supplier/Source:	Not Stated
Weather	Overcast		

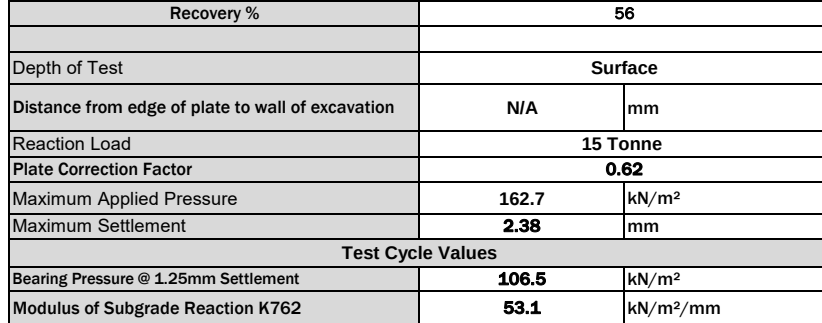
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Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	162.7	kN/m²			
Maximum Settlement	1.34	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	141.0	kN/m²	15.3		
Modulus of Subgrade Reaction K762	70.3	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

Needwood Close, Manchester

[illegible]

9.4

J. L. L.

Template Version: 2.8

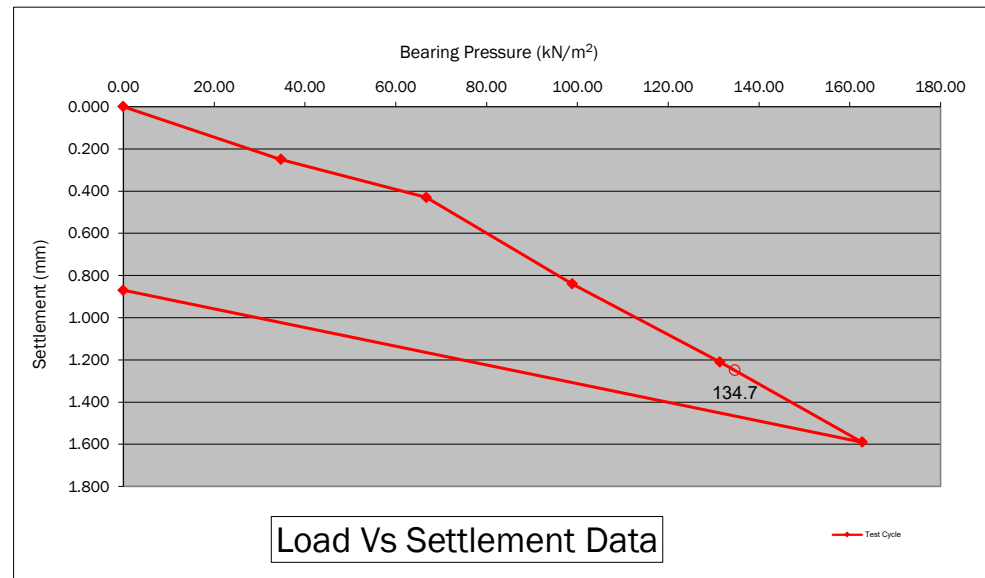
Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)	Contract Test Reference:	DN3565/1C	REPORT NO:	DNR/78336C
	Clients Reference:	DN3565/1C	Report Date:	28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	3	Supplier/Source:	Not Stated
Weather	Overcast		

Test Cycle		
Bearing Pressure (See Notes below)	Settlement	
kN/m^2	mm	
34.71	0.25	
66.71	0.43	
98.90	0.84	
131.35	1.21	
162.72	1.59	
0.00	0.87	
Recovery %	45	
Depth of Test	Surface	
Distance from edge of plate to wall of excavation	N/A	mm
Reaction Load	15 Tonne	
Plate Correction Factor	0.62	
Maximum Applied Pressure	162.7	kN/m^2
Maximum Settlement	1.59	mm
Test Cycle Values		
Bearing Pressure @ 1.25mm Settlement	134.7	kN/m^2
Modulus of Subgrade Reaction K762	67.1	$kN/m^2/mm$



Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	162.7	kN/m²			
Maximum Settlement	1.59	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	134.7	kN/m²	14.1		
Modulus of Subgrade Reaction K762	67.1	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

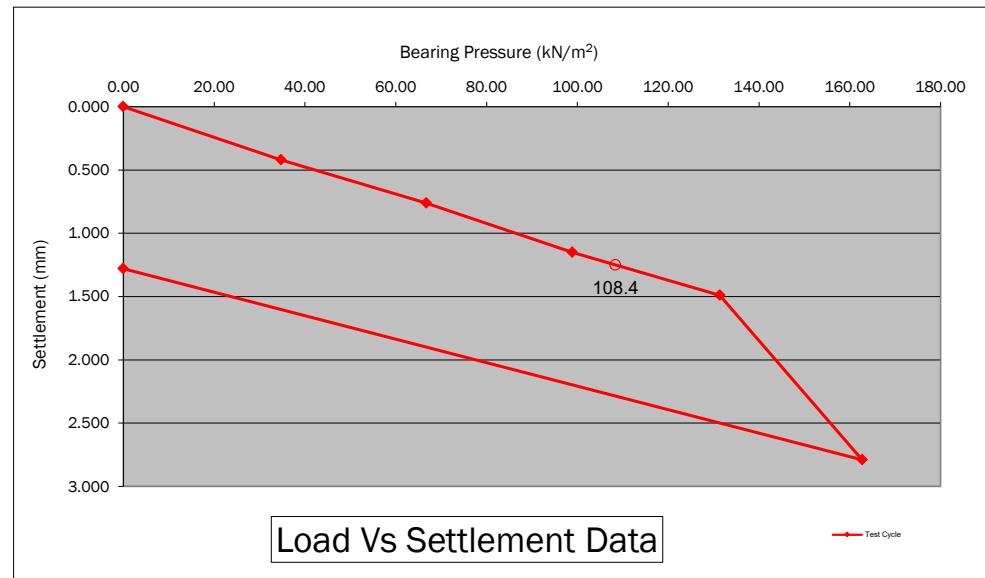
Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)		Contract Test Reference: DN3565/1D	REPORT NO: DNR/78336D
		Clients Reference: DN3565/1D	Report Date: 28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	4	Supplier/Source:	Not Stated
Weather	Overcast		

Test Cycle	
Bearing Pressure (See Notes below)	Settlement
kN/m^2	mm
34.71	0.42
66.71	0.76
98.90	1.15
131.35	1.49
162.72	2.79
0.00	1.28
Recovery %	54



Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	162.7	kN/m²			
Maximum Settlement	2.79	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	108.4	kN/m²	9.7		
Modulus of Subgrade Reaction K762	54.0	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

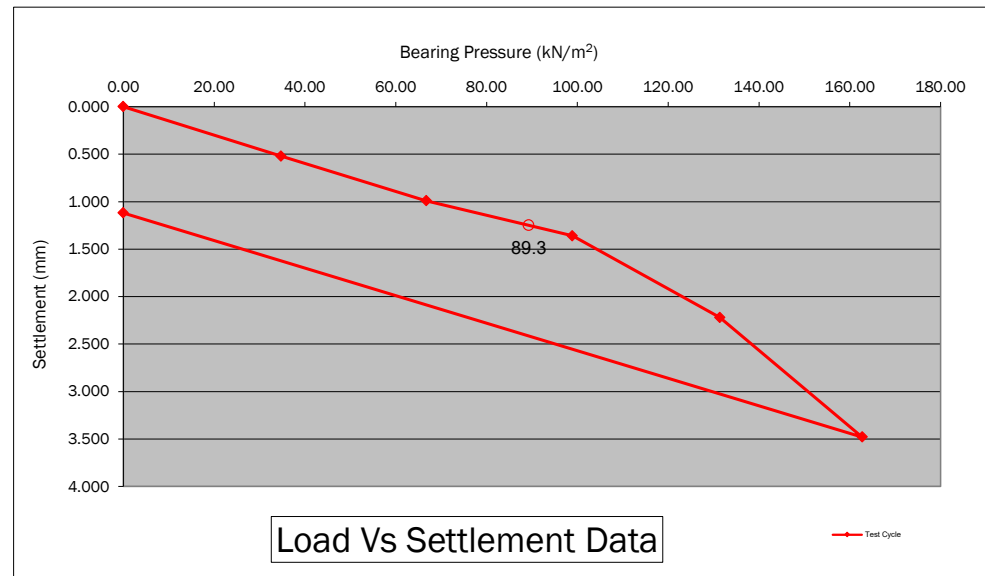
Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)		Contract Test Reference: DN3565/1E	REPORT NO: DNR/78336E
		Clients Reference: DN3565/1E	Report Date: 28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	5	Supplier/Source:	Not Stated
Weather	Overcast		

Test Cycle		
Bearing Pressure (See Notes below)	Settlement	
kN/m^2	mm	
34.71	0.52	
66.71	0.99	
98.90	1.36	
131.35	2.22	
162.72	3.48	
0.00	1.12	
Recovery %	68	
Depth of Test	Surface	
Distance from edge of plate to wall of excavation	N/A	mm
Reaction Load	15 Tonne	
Plate Correction Factor	0.62	
Maximum Applied Pressure	162.7	kN/m^2
Maximum Settlement	3.48	mm
Test Cycle Values		
Bearing Pressure @ 1.25mm Settlement	89.3	kN/m^2
Modulus of Subgrade Reaction K762	44.5	$kN/m^2/mm$

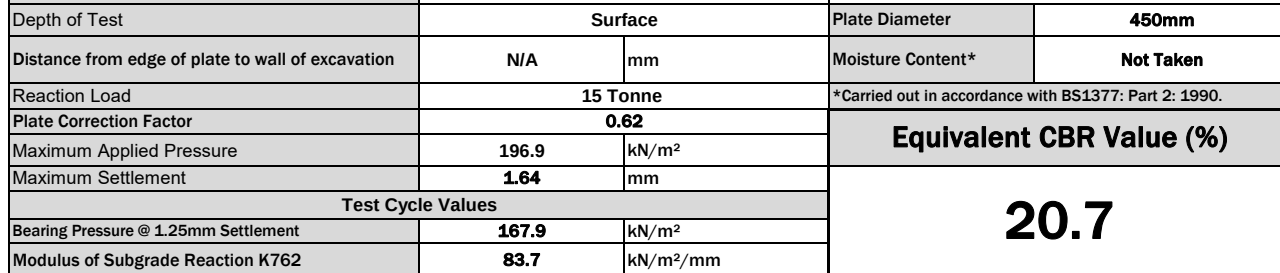


Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	162.7	kN/m²			
Maximum Settlement	3.48	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	89.3	kN/m²	6.9		
Modulus of Subgrade Reaction K762	44.5	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

Needwood Close, Manchester

[illegible]

J. L. L.

Template Version: 2.8

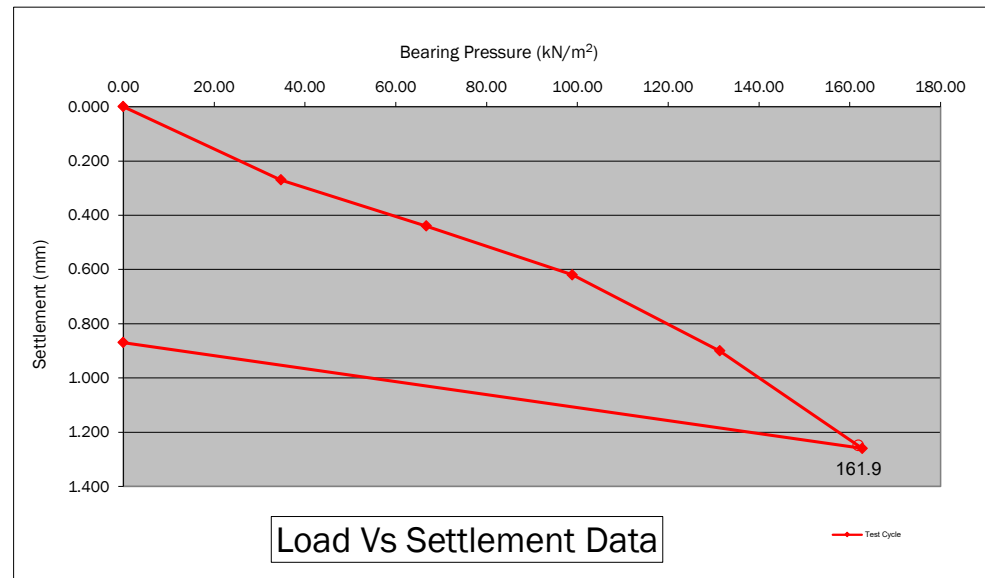
Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)		Contract Test Reference: DN3565/1G	REPORT NO: DNR/78336G
		Clients Reference: DN3565/1G	Report Date: 28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	7	Supplier/Source:	Not Stated
Weather	Overcast		

Test Cycle		
Bearing Pressure (See Notes below)	Settlement	
kN/m^2	mm	
34.71	0.27	
66.71	0.44	
98.90	0.62	
131.35	0.90	
162.72	1.26	
0.00	0.87	
Recovery %	31	
Depth of Test	Surface	
Distance from edge of plate to wall of excavation	N/A	mm
Reaction Load	15 Tonne	
Plate Correction Factor	0.62	
Maximum Applied Pressure	162.7	kN/m^2
Maximum Settlement	1.26	mm
Test Cycle Values		
Bearing Pressure @ 1.25mm Settlement	161.9	kN/m^2
Modulus of Subgrade Reaction K762	80.7	$kN/m^2/mm$



Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	162.7	kN/m²			
Maximum Settlement	1.26	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	161.9	kN/m²	19.4		
Modulus of Subgrade Reaction K762	80.7	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

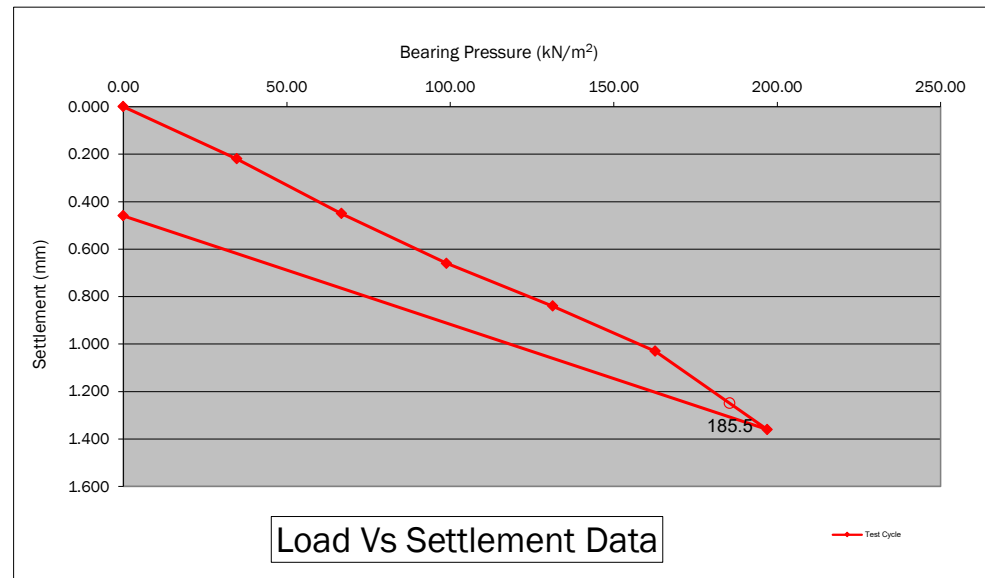
Needwood Close, Manchester



Plate Loading Test to determine equivalent CBR Value In accordance with CTS' In-house procedure based on HD 25/94 (replaced by IAN 73/06 Revision 1 :2009)		Contract Test Reference: DN3565/1H	REPORT NO: DNR/78336H
		Clients Reference: DN3565/1H	Report Date: 28/07/2021

Material Description:	Soil/Mix	Date Tested:	27/06/2021
Test Location:	8	Supplier/Source:	Not Stated
Weather	Overcast		

Test Cycle		
Bearing Pressure (See Notes below)	Settlement	
kN/m^2	mm	
34.71	0.22	
66.71	0.45	
98.90	0.66	
131.35	0.84	
162.72	1.03	
196.93	1.36	
0.00	0.46	
Recovery %	66	
Depth of Test	Surface	
Distance from edge of plate to wall of excavation	N/A	mm
Reaction Load	15 Tonne	
Plate Correction Factor	0.62	
Maximum Applied Pressure	196.9	kN/m^2
Maximum Settlement	1.36	mm
Test Cycle Values		
Bearing Pressure @ 1.25mm Settlement	185.5	kN/m^2
Modulus of Subgrade Reaction K762	92.5	$kN/m^2/mm$



Depth of Test	Surface		Plate Diameter	450mm	Authorised Signatory  J Williams - Field Services Manager
Distance from edge of plate to wall of excavation	N/A	mm	Moisture Content*	Not Taken	
Reaction Load	15 Tonne		*Carried out in accordance with BS1377: Part 2: 1990.		
Plate Correction Factor	0.62		Equivalent CBR Value (%)		
Maximum Applied Pressure	196.9	kN/m²			
Maximum Settlement	1.36	mm			
Test Cycle Values					
Bearing Pressure @ 1.25mm Settlement	185.5	kN/m²	24.6		
Modulus of Subgrade Reaction K762	92.5	kN/m²/mm			

Notes: Initial load applied by test equipment calculated to be less than 0.5 kN

Template Version: 2.8

Needwood Close, Manchester



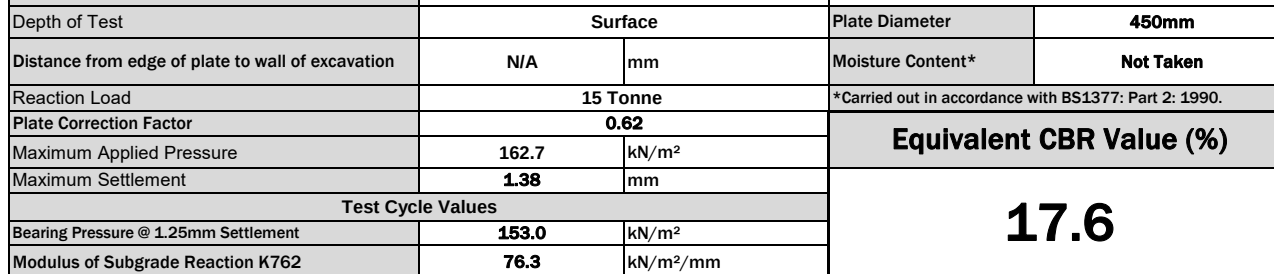
Contract Test Reference:

DN3565/1I

DNR/78336I

28/07/2021

Test Cycle	
Bearing Pressure (See Notes below)	Settlement
kN/m^2	mm
34.71	0.34
66.71	0.52
98.90	0.68
131.35	0.96
162.72	1.38
0.00	0.65
Recovery %	53



J. Lusk

Template Version: 2.8

Needwood Close, Manchester



Contract Test Reference:

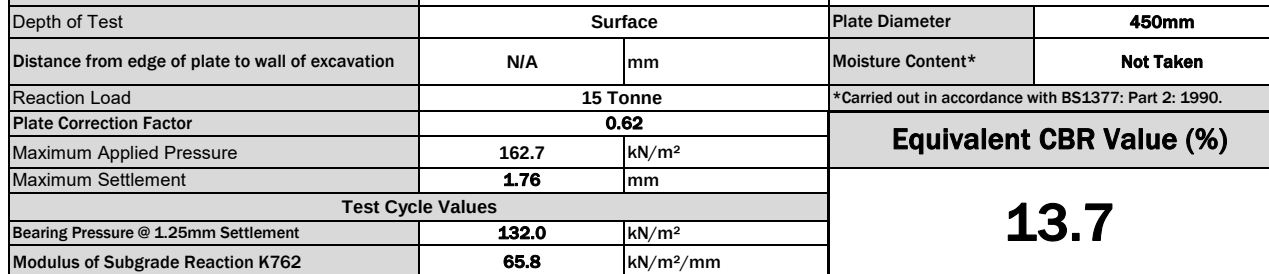
DN3565/1J

DNR/78336J

DN3565/1J

28/07/2021

Test Cycle	
Bearing Pressure (See Notes below)	Settlement
kN/m^2	mm
34.71	0.30
66.71	0.52
98.90	0.82
131.35	1.24
162.72	1.76
0.00	1.10
Recovery %	38



J. Lusk

Notes:	Initial load applied by test equipment calculated to be less than 0.5 kN
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Template Version: 2.8



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-1

Report Date: 14/09/2021

Client: LK Group
Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 1

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: Ground Level

Plate Diameter (mm): 610

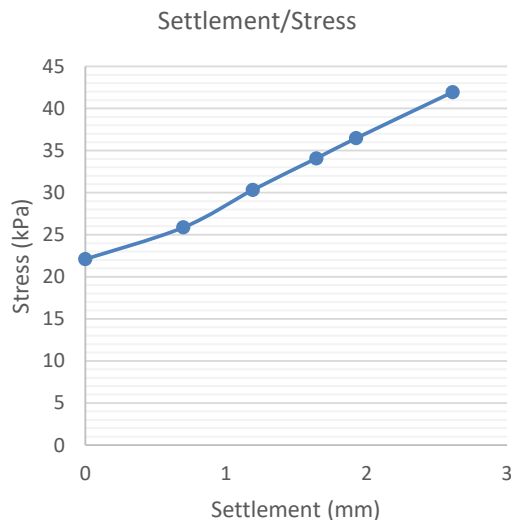
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
180	0.70	26
420	1.19	30
660	1.64	34
900	1.93	36
1200	2.61	42

Maximum Applied Stress (kPa):	42
Maximum Settlement (mm):	2.61
Equivalent CBR Value (%):	2
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	20

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-2

Report Date: 14/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 2

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: 500mm BGL

Plate Diameter (mm): 610

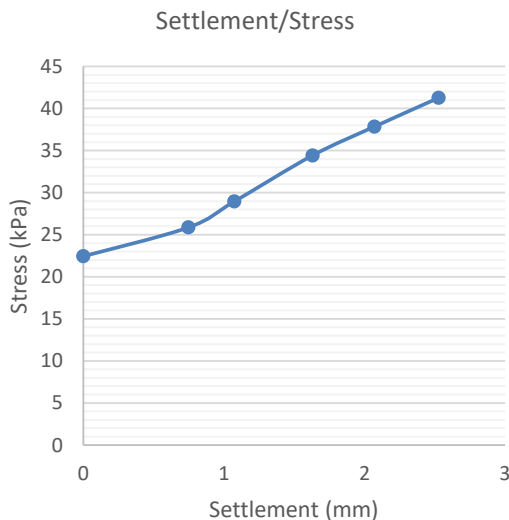
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
300	0.75	26
480	1.07	29
660	1.63	34
840	2.07	38
1080	2.53	41

Maximum Applied Stress (kPa):	41
Maximum Settlement (mm):	2.53
Equivalent CBR Value (%):	2
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	20

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-3

Report Date: 14/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 3

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: 1000mm BGL

Plate Diameter (mm): 610

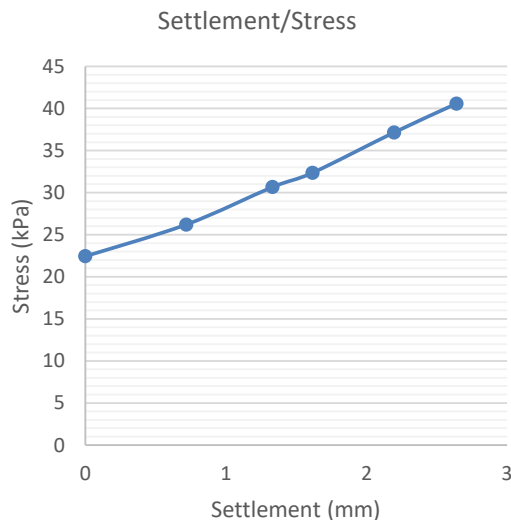
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
180	0.72	26
480	1.33	31
660	1.62	32
840	2.20	37
1020	2.64	41

Maximum Applied Stress (kPa):	41
Maximum Settlement (mm):	2.64
Equivalent CBR Value (%):	2
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	20

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-4

Report Date: 14/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 4

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: Ground Level

Plate Diameter (mm): 610

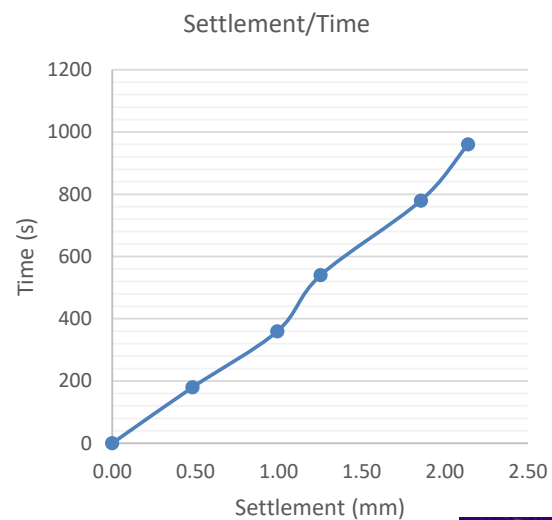
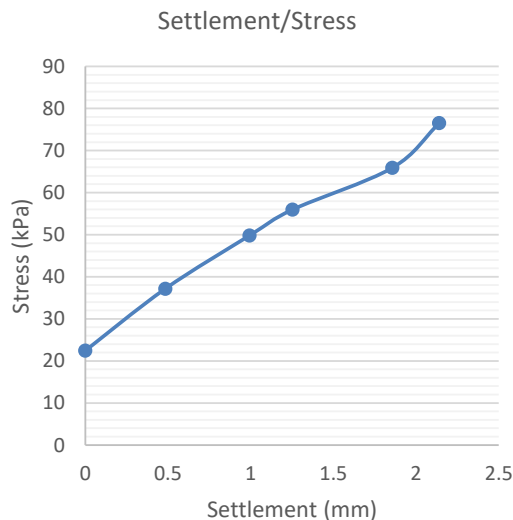
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
180	0.48	37
360	0.99	50
540	1.25	56
780	1.86	66
960	2.14	77

Maximum Applied Stress (kPa):	77
Maximum Settlement (mm):	2.14
Equivalent CBR Value (%):	5
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	37

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-5

Report Date: 14/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 5

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: 500mm BGL

Plate Diameter (mm): 610

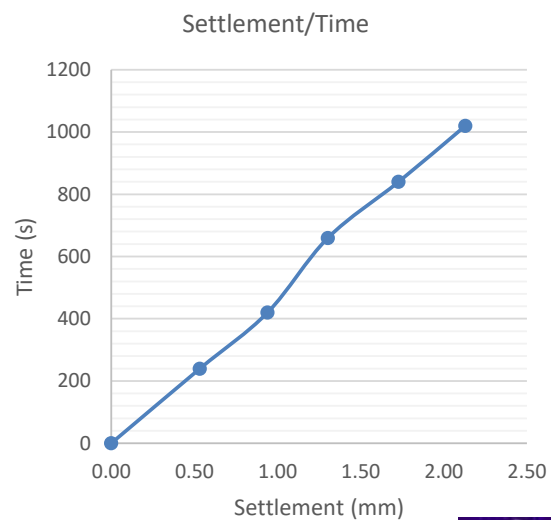
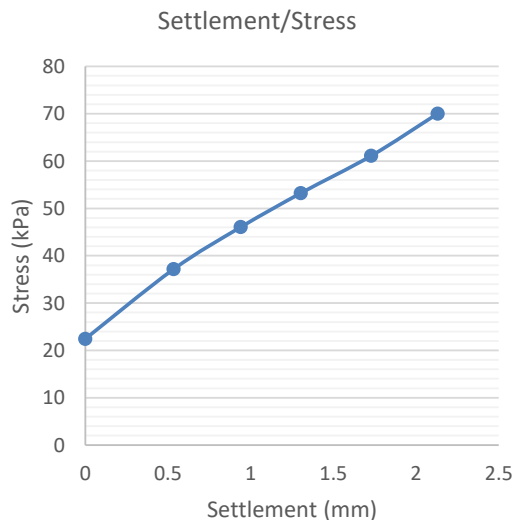
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
240	0.53	37
420	0.94	46
660	1.30	53
840	1.73	61
1020	2.13	70

Maximum Applied Stress (kPa):	70
Maximum Settlement (mm):	2.13
Equivalent CBR Value (%):	4
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	34

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6234-6

Report Date: 14/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 6

Date of Test: 14/09/2021

Description: Brown CLAY with crushed brick/concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Dry

Layer: 1000mm BGL

Plate Diameter (mm): 610

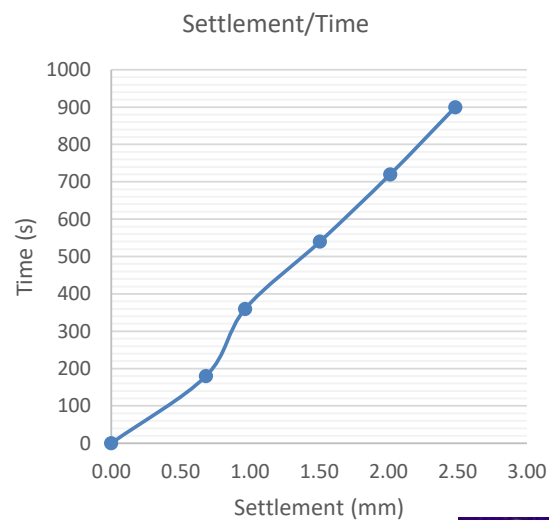
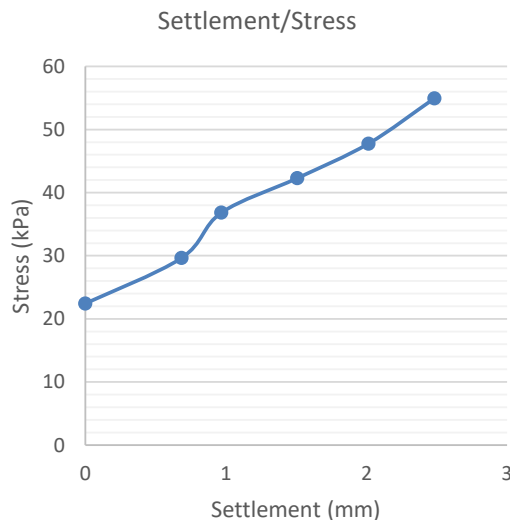
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	22
180	0.68	30
360	0.97	37
540	1.51	42
720	2.01	48
900	2.48	55

Maximum Applied Stress (kPa):	55
Maximum Settlement (mm):	2.48
Equivalent CBR Value (%):	3
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	26

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



Issued subject to Hixtra Terms and Conditions available at www.hixtra.com

HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-1

Report Date: 21/09/2021

Client: LK Group
Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 8

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

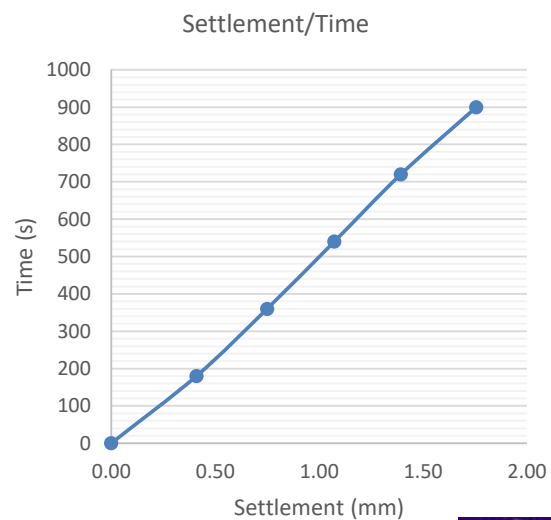
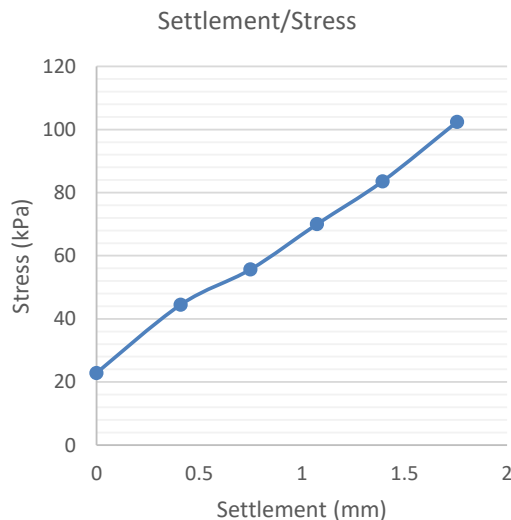
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.41	44
360	0.75	56
540	1.07	70
720	1.39	84
900	1.76	102

Maximum Applied Stress (kPa):	102
Maximum Settlement (mm):	1.76
Equivalent CBR Value (%):	9
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	50

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



Issued subject to Hixtra Terms and Conditions available at www.hixtra.com

HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-2

Report Date: 21/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 17

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

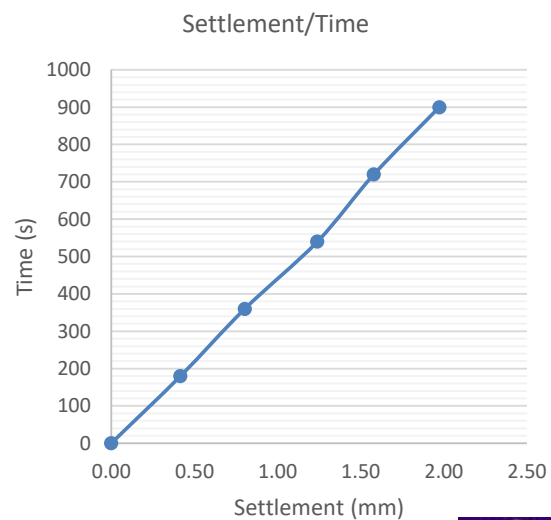
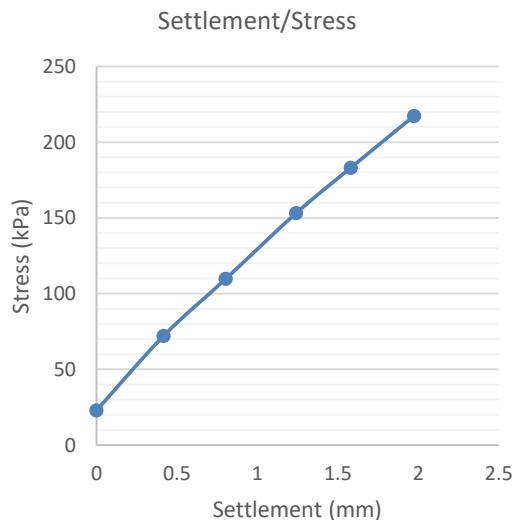
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.42	72
360	0.80	110
540	1.24	153
720	1.58	183
900	1.97	217

Maximum Applied Stress (kPa):	217
Maximum Settlement (mm):	1.97
Equivalent CBR Value (%):	28
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	100

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-3

Report Date: 21/09/2021

Client: LK Group
Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 14
Description: Brown CLAY with Crushed Brick and Concrete
Material Class: Formation
Layer: Ground Level
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

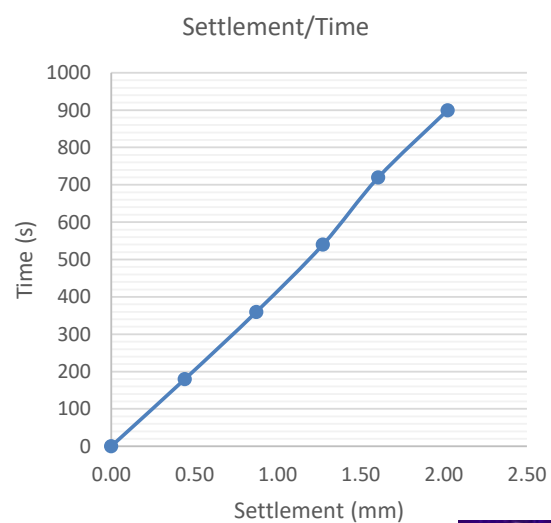
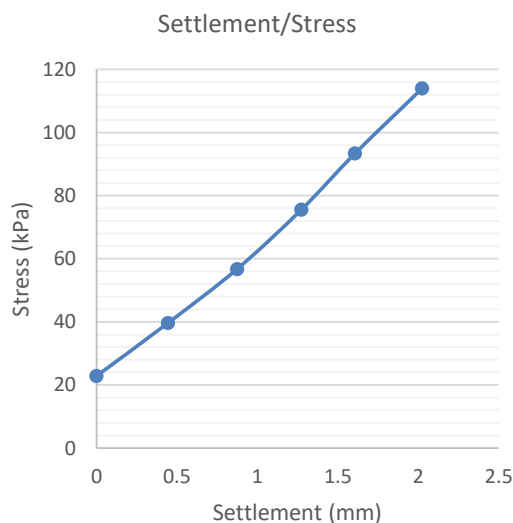
Date of Test: 21/09/2021
Reaction Load: 13 Tonne Roller
Weather: Sunny
Plate Diameter (mm): 604

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.44	40
360	0.87	57
540	1.27	76
720	1.61	93
900	2.02	114

Maximum Applied Stress (kPa):	114
Maximum Settlement (mm):	2.02
Equivalent CBR Value (%):	8
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	48

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-4

Report Date: 21/09/2021

Client: LK Group
Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 41

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

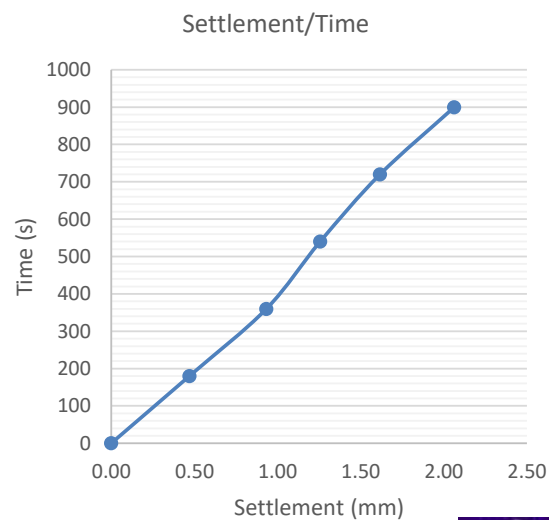
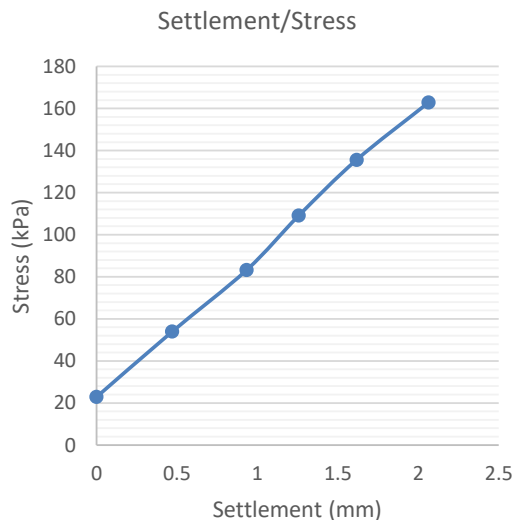
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.47	54
360	0.93	83
540	1.26	109
720	1.62	136
900	2.06	163

Maximum Applied Stress (kPa):	163
Maximum Settlement (mm):	2.06
Equivalent CBR Value (%):	15
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	70

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-5

Report Date: 21/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 38

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

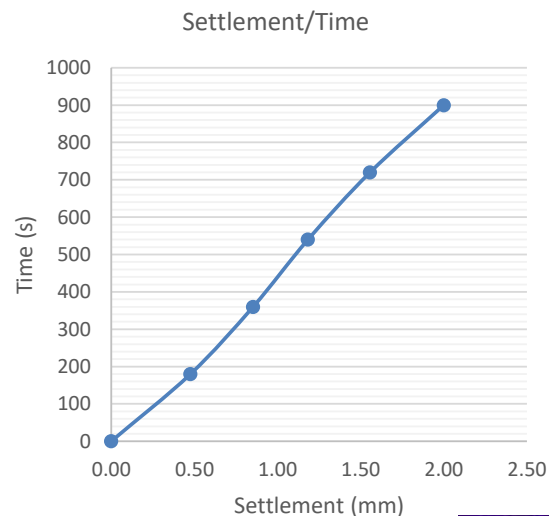
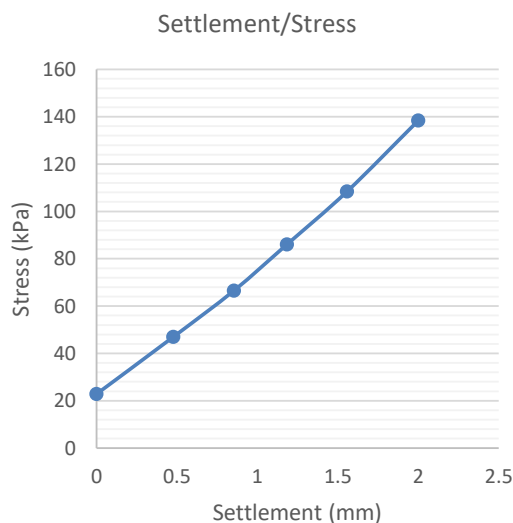
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.48	47
360	0.85	66
540	1.18	86
720	1.56	108
900	2.00	138

Maximum Applied Stress (kPa):	138
Maximum Settlement (mm):	2.00
Equivalent CBR Value (%):	11
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	58

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-6

Report Date: 21/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 7

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

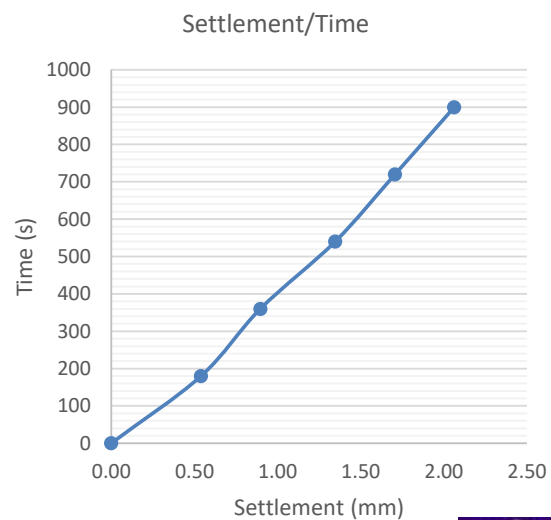
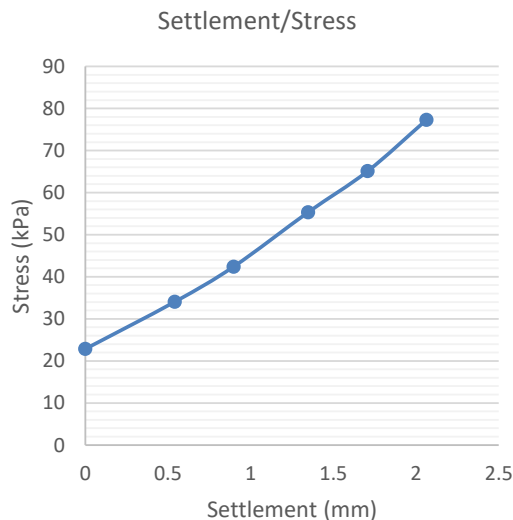
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.54	34
360	0.90	42
540	1.35	55
720	1.71	65
900	2.06	77

Maximum Applied Stress (kPa):	77
Maximum Settlement (mm):	2.06
Equivalent CBR Value (%):	4
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	34

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-7

Report Date: 21/09/2021

Client: LK Group
Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 36
Description: Brown CLAY with Crushed Brick and Concrete
Material Class: Formation
Layer: Ground Level
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

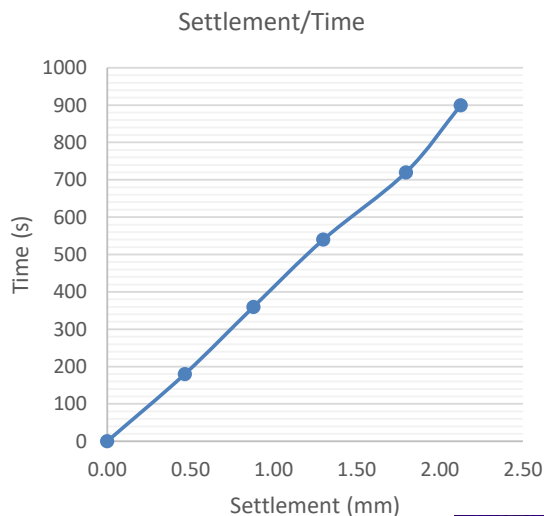
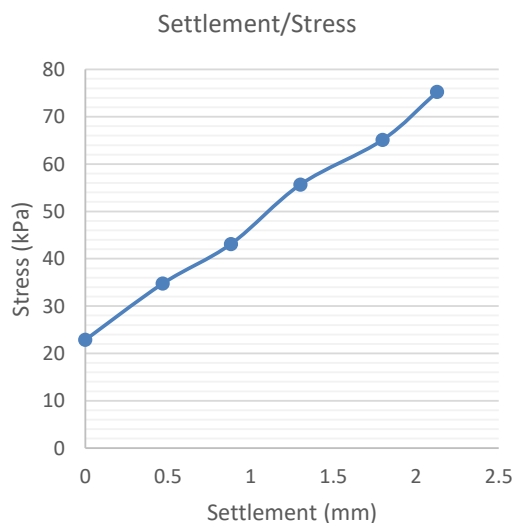
Date of Test: 21/09/2021
Reaction Load: 13 Tonne Roller
Weather: Sunny
Plate Diameter (mm): 604

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.47	35
360	0.88	43
540	1.30	56
720	1.80	65
900	2.13	75

Maximum Applied Stress (kPa):	75
Maximum Settlement (mm):	2.13
Equivalent CBR Value (%):	5
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	35

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6264-8

Report Date: 21/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park

Eton Hill Road, Radcliffe

Greater Manchester

M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 22

Date of Test: 21/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Formation

Weather: Sunny

Layer: Ground Level

Plate Diameter (mm): 604

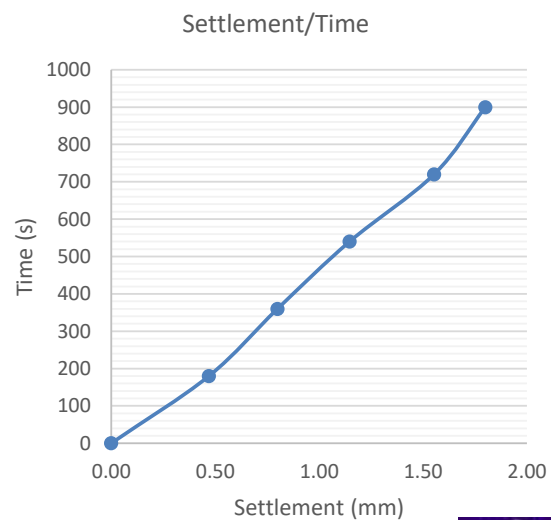
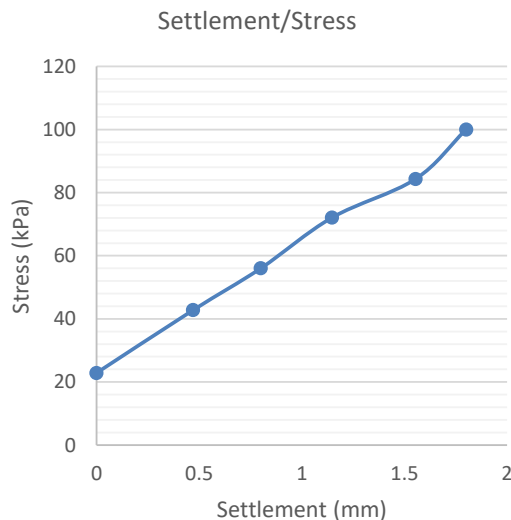
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.47	43
360	0.80	56
540	1.15	72
720	1.55	84
900	1.80	100

Maximum Applied Stress (kPa):	100
Maximum Settlement (mm):	1.80
Equivalent CBR Value (%):	8
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	49

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse

Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6269-1

Report Date: 22/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 31

Date of Test: 22/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

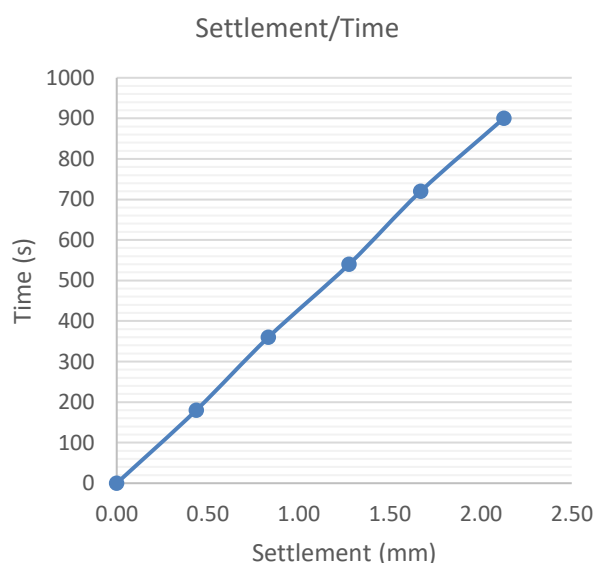
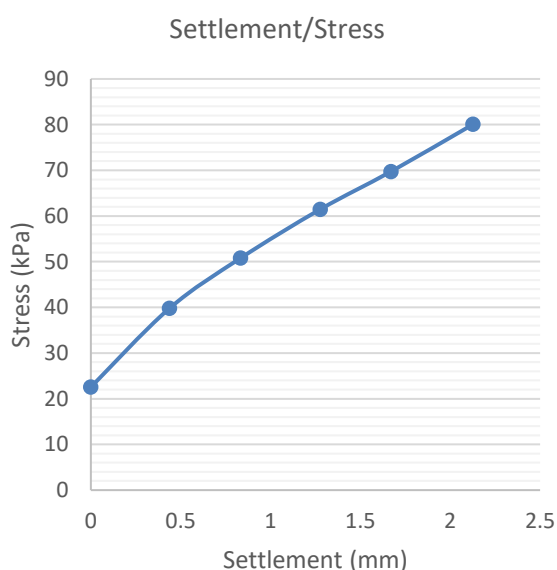
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.44	40
360	0.83	51
540	1.28	61
720	1.67	70
900	2.13	80

Maximum Applied Stress (kPa):	80
Maximum Settlement (mm):	2.13
Equivalent CBR Value (%):	6
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	40

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6269-2

Report Date: 22/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 45

Date of Test: 22/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

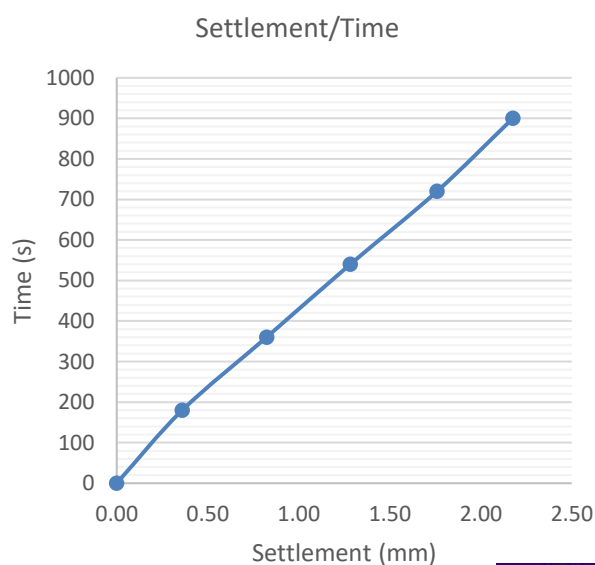
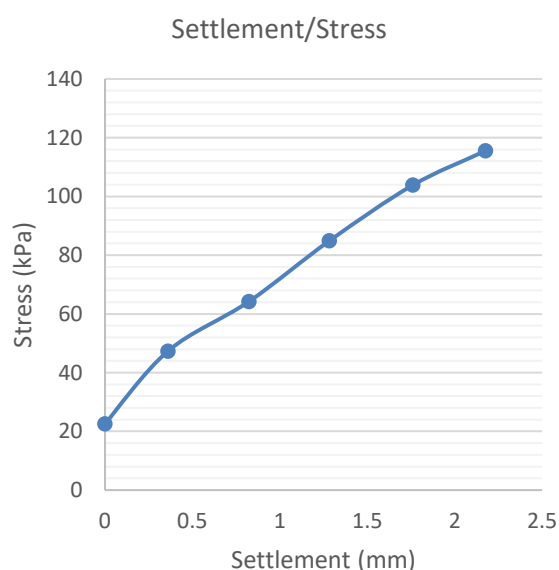
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.36	47
360	0.82	64
540	1.28	85
720	1.76	104
900	2.18	116

Maximum Applied Stress (kPa):	116
Maximum Settlement (mm):	2.18
Equivalent CBR Value (%):	10
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	54

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6269-3

Report Date: 22/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 24

Date of Test: 22/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

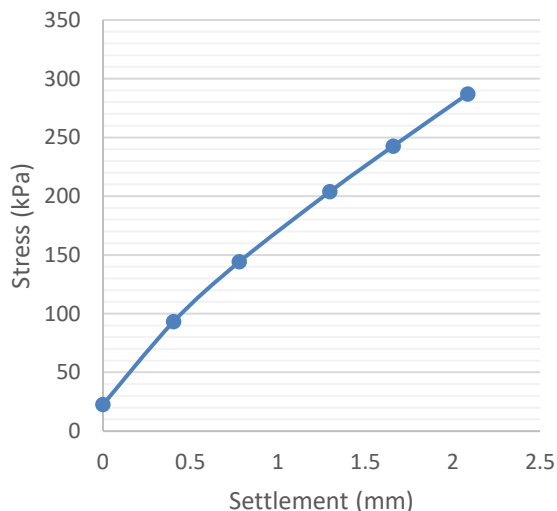
Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.40	93
360	0.78	144
540	1.30	204
720	1.66	243
900	2.09	287

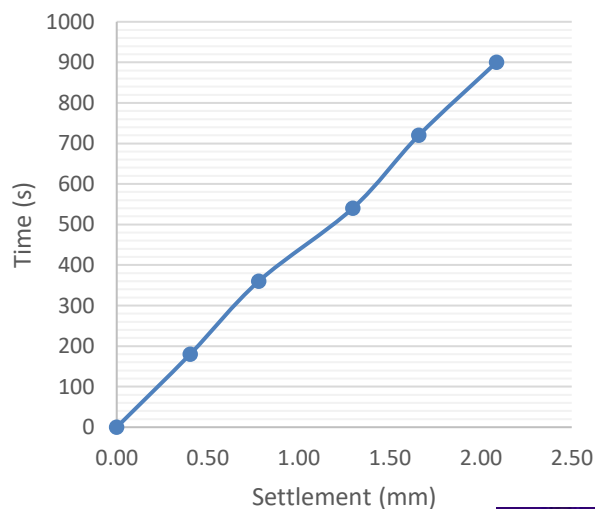
Maximum Applied Stress (kPa):	287
Maximum Settlement (mm):	2.09
Equivalent CBR Value (%):	44
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	129

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)

Settlement/Stress



Settlement/Time



For and on behalf of Hixtra Ltd

Kevin Shorthouse
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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6269-4

Report Date: 22/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 43

Date of Test: 22/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Formation

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

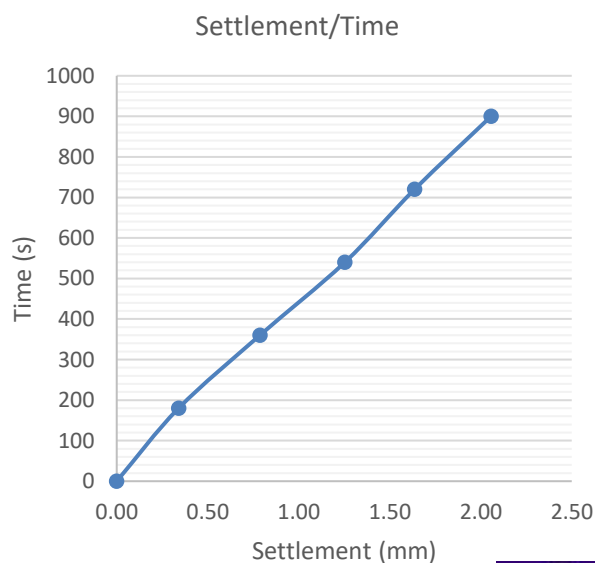
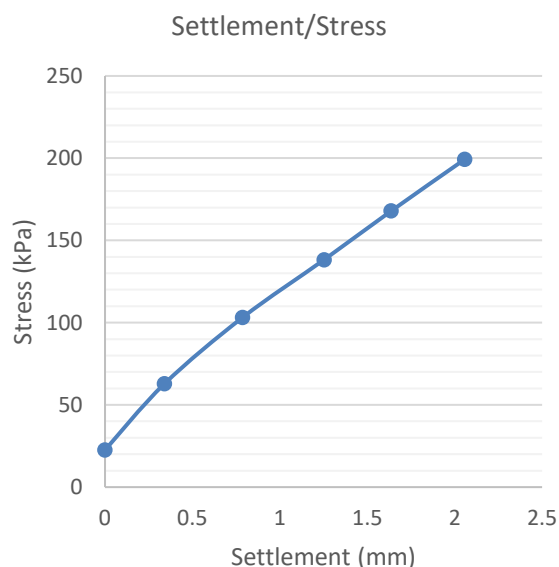
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.34	63
360	0.79	103
540	1.25	138
720	1.64	168
900	2.06	199

Maximum Applied Stress (kPa):	199
Maximum Settlement (mm):	2.06
Equivalent CBR Value (%):	23
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	90

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory





Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6269-5

Report Date: 22/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: CBR 57

Description: Brown CLAY with Crushed Brick and Concrete

Material Class: Formation

Layer: Ground Level

Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Date of Test: 22/09/2021

Reaction Load: 13 Tonne Roller

Weather: Overcast

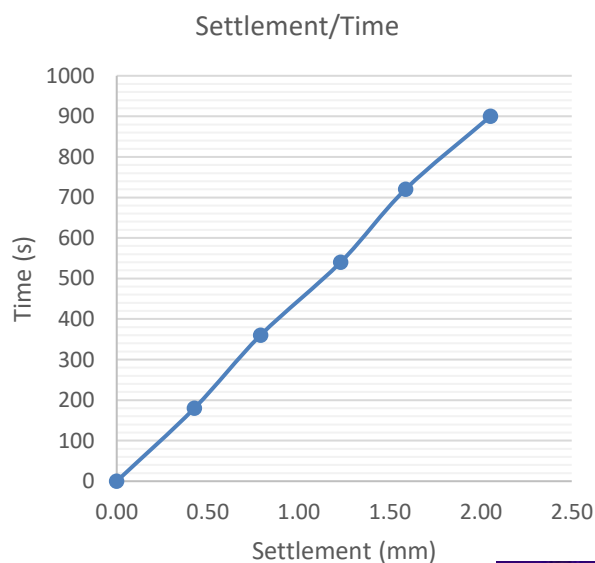
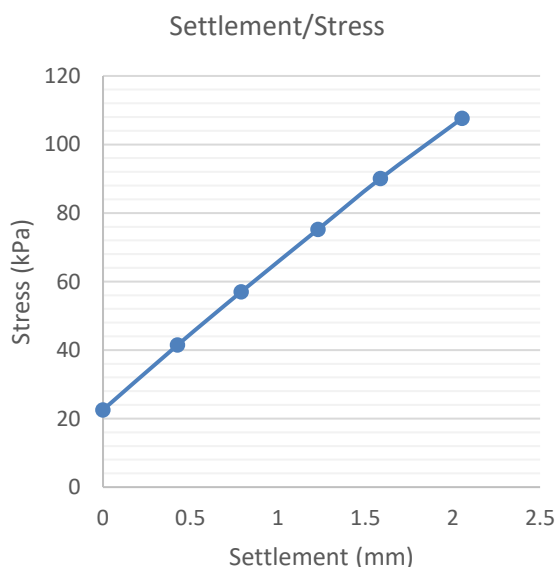
Plate Diameter (mm): 608

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.43	41
360	0.79	57
540	1.23	75
720	1.59	90
900	2.05	108

Maximum Applied Stress (kPa):	108
Maximum Settlement (mm):	2.05
Equivalent CBR Value (%):	8
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	50

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
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HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6275-1

Report Date: 23/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: 3

Date of Test: 23/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Crane Mat

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

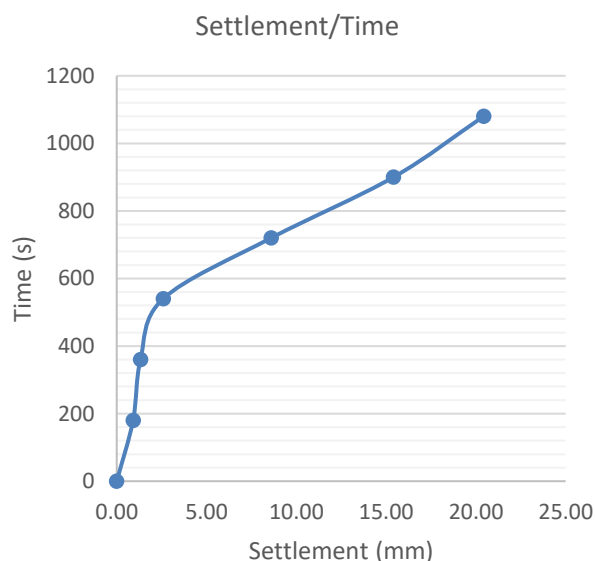
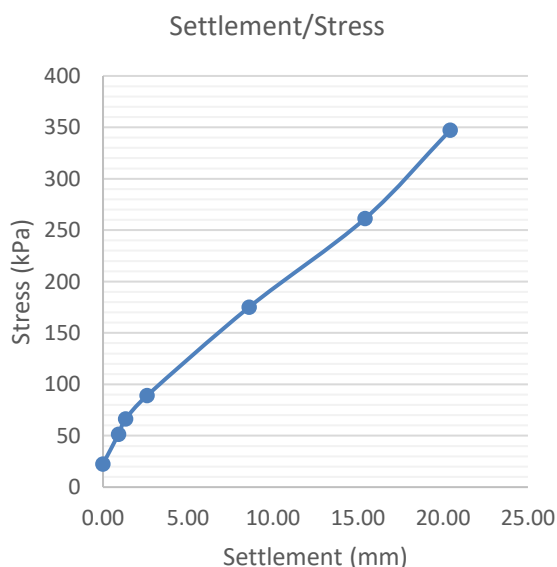
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.91	51
360	1.32	66
540	2.59	89
720	8.60	175
900	15.42	261
1080	20.43	347

Maximum Applied Stress (kPa):	347
Maximum Settlement (mm):	20.43
Equivalent CBR Value (%):	6
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	41

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory





Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6275-2

Report Date: 23/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: 3A

Date of Test: 23/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 20 Tonne Excavator

Material Class: Crane Mat

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

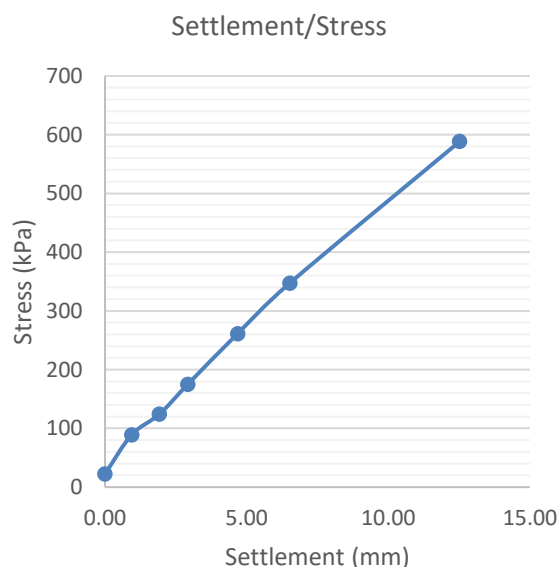
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.94	89
360	1.92	124
540	2.92	175
720	4.68	261
900	6.52	347
1080	12.52	588

Maximum Applied Stress (kPa):	588
Maximum Settlement (mm):	12.52
Equivalent CBR Value (%):	13
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	65

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



Issued subject to Hixtra Terms and Conditions available at www.hixtra.com

HU-SOI-01B Issue 5



Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6275-3

Report Date: 23/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: 6

Date of Test: 23/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Crane Mat

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

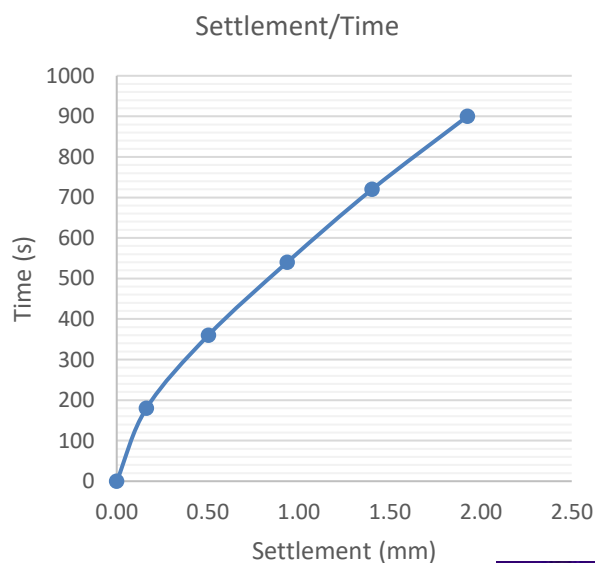
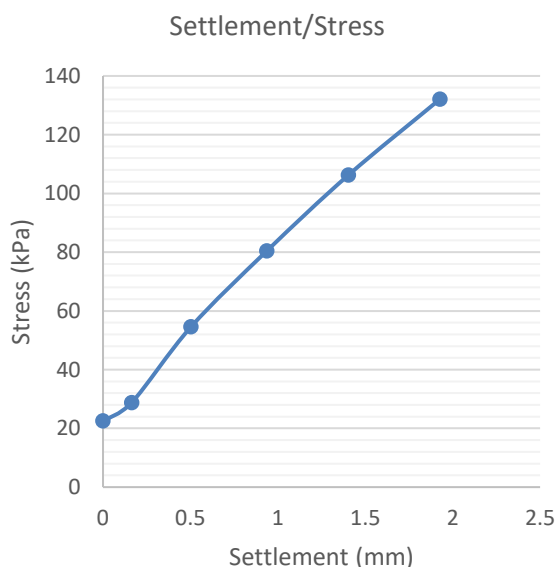
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.16	29
360	0.50	55
540	0.94	80
720	1.40	106
900	1.93	132

Maximum Applied Stress (kPa):	132
Maximum Settlement (mm):	1.93
Equivalent CBR Value (%):	13
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	64

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory





Certificate for the Determination of the Vertical Deformation and Strength Characteristics of Soil by the Incremental Plate Loading Test to BS 1377 Part 9: 1990

Report No: HS6275-4

Report Date: 23/09/2021

Client: LK Group

Address: Unit 29, Eton Business Park
Eton Hill Road, Radcliffe
Greater Manchester
M26 2ZS

Site: Needwood Close, Collyhurst, Manchester, M40 8LB

Test Details

Test Location: 5

Date of Test: 23/09/2021

Description: Brown CLAY with Crushed Brick and Concrete

Reaction Load: 13 Tonne Roller

Material Class: Crane Mat

Weather: Overcast

Layer: Ground Level

Plate Diameter (mm): 608

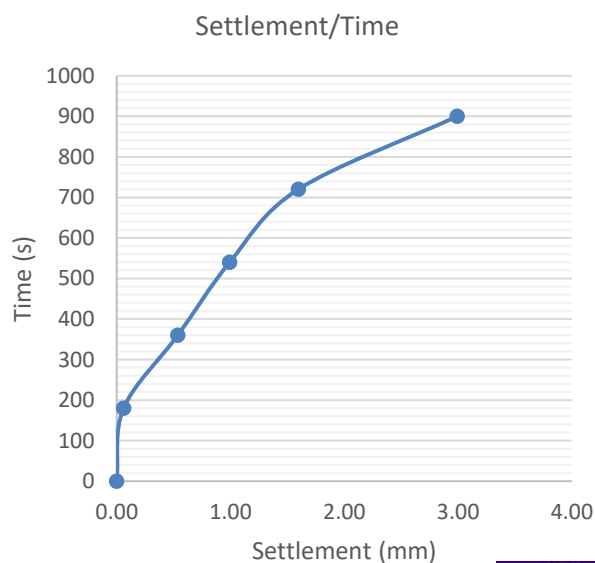
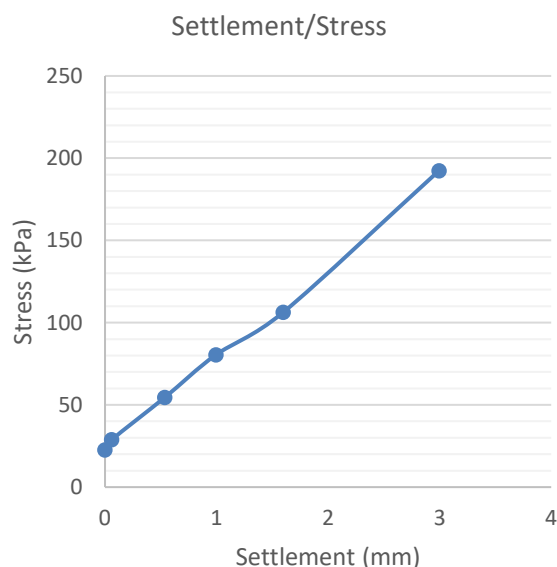
Condition: The results apply only to the location tested and the material was tested in an 'as found' condition

Test Results

Time (s)	Settlement (mm)	Plate Stress (kPa)
0	0.00	23
180	0.06	29
360	0.54	55
540	0.99	80
720	1.60	106
900	2.99	192

Maximum Applied Stress (kPa):	192
Maximum Settlement (mm):	2.99
Equivalent CBR Value (%):	11
Modulus of Subgrade Reaction, k_{762} (MN/m ² /m):	60

Note: Supplemental test method, calculation of Equivalent CBR Value and Modulus of Subgrade Reaction: IAN 73/06 revision 1 (2009), HD 25/94 (withdrawn)



For and on behalf of Hixtra Ltd

Kevin Shorthouse
Authorised signatory



Issued subject to Hixtra Terms and Conditions available at www.hixtra.com

HU-SOI-01B Issue 5

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 15/10/2021

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM1

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

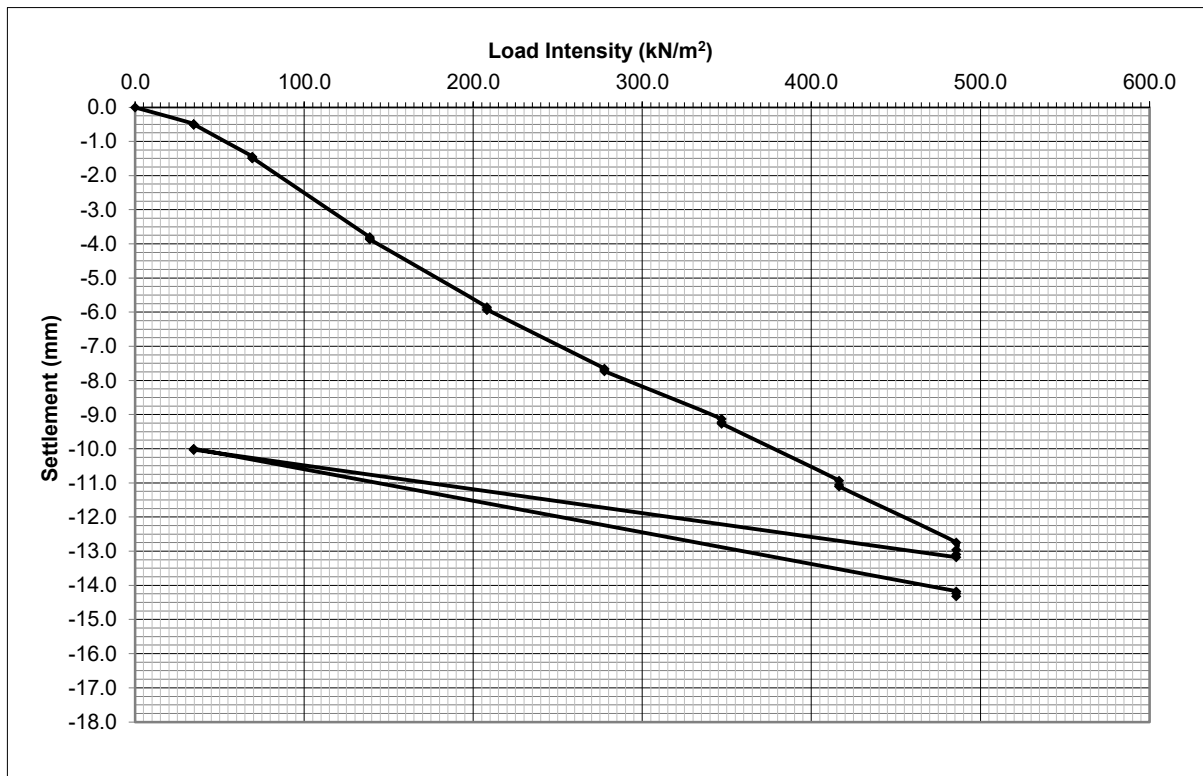
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -14.31

Weather: Cold and bright

Strata Description: Formation



Equivalent CBR Value of: 5.6 %
Corrected Subgrade Reaction (k₇₆₂): 39,360 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
PW	15.10.2021	CW	18.10.21

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 15/10/2021

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM2

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

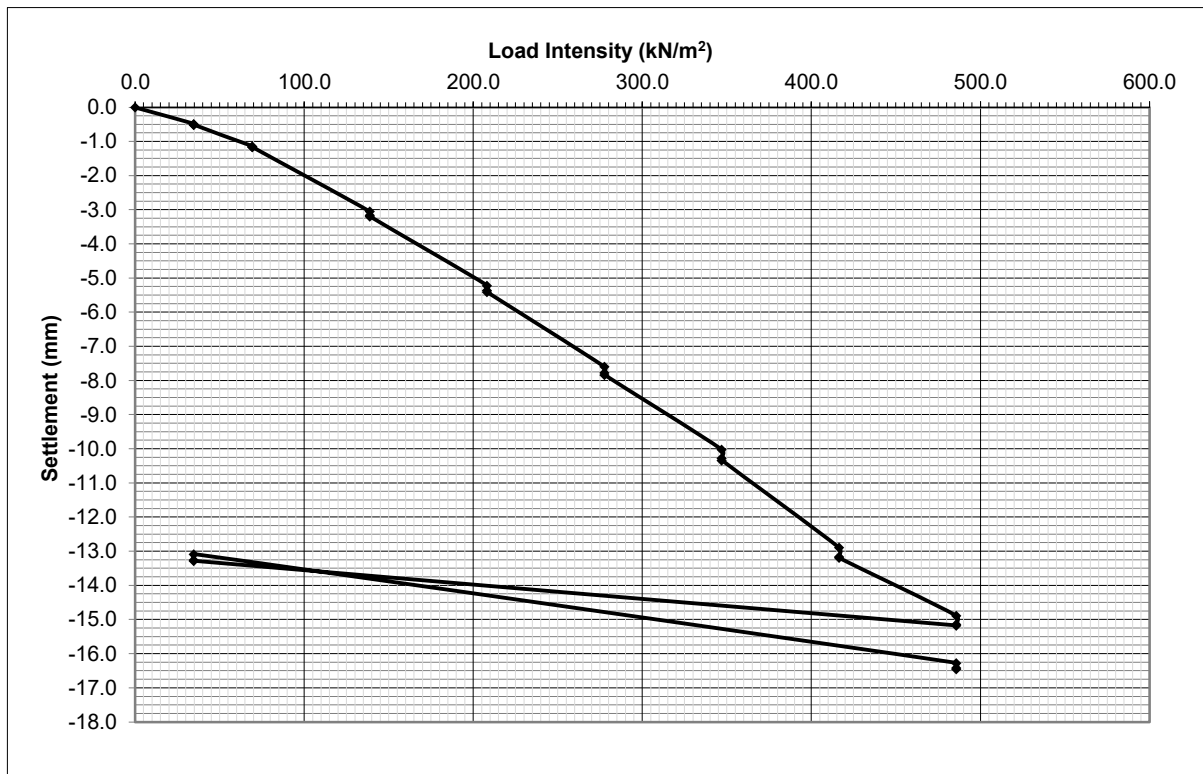
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -16.45

Weather: Cold and bright

Strata Description: Formation



Equivalent CBR Value of: 7.3 %
Corrected Subgrade Reaction (k₇₆₂): 45,920 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
PW	15.10.2021	CW	18.10.21

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 15/10/2021

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM3

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

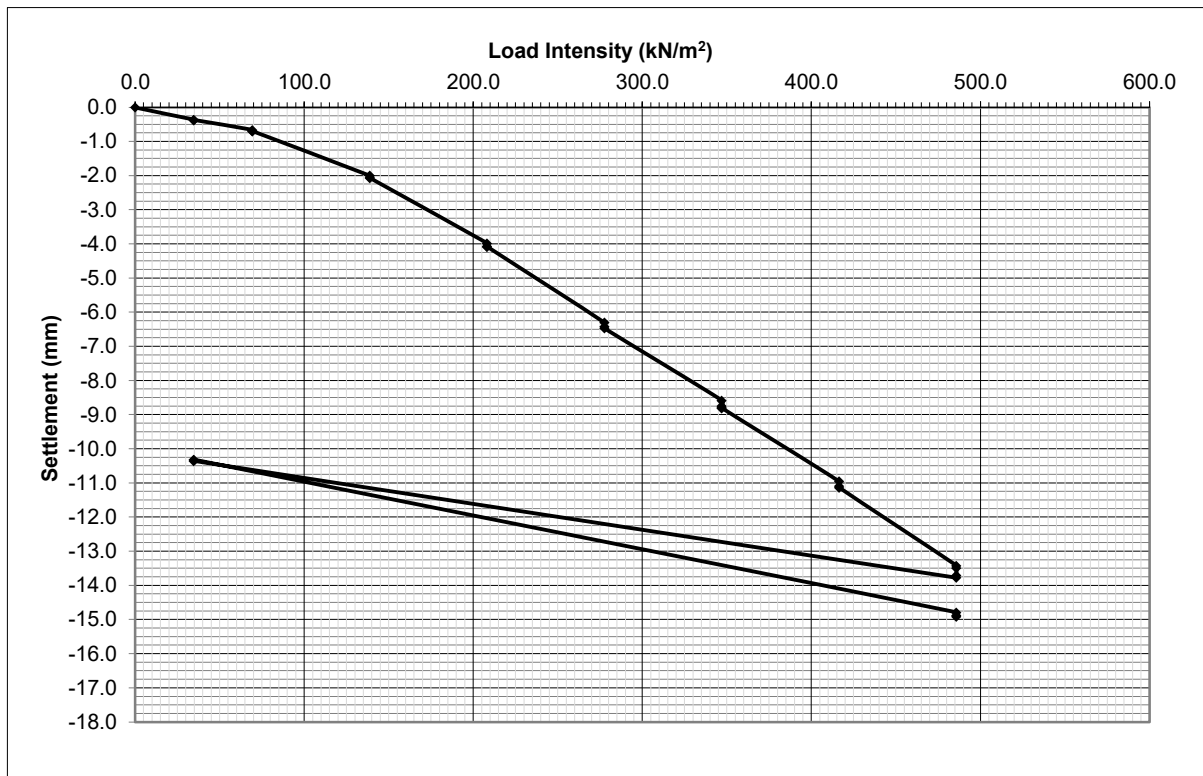
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -14.91

Weather: Cold and bright

Strata Description: Formation



Equivalent CBR Value of: 12.4 %
Corrected Subgrade Reaction (k₇₆₂): 62,320 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
PW	15.10.2021	CW	18.10.21

TEST REPORT

Client LK Remediate Ltd

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKR 20 1044 -
Collyhurst

Job Number MRN 4297/1
Date of Issue 04 February 2022
Pages 1 of 11

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

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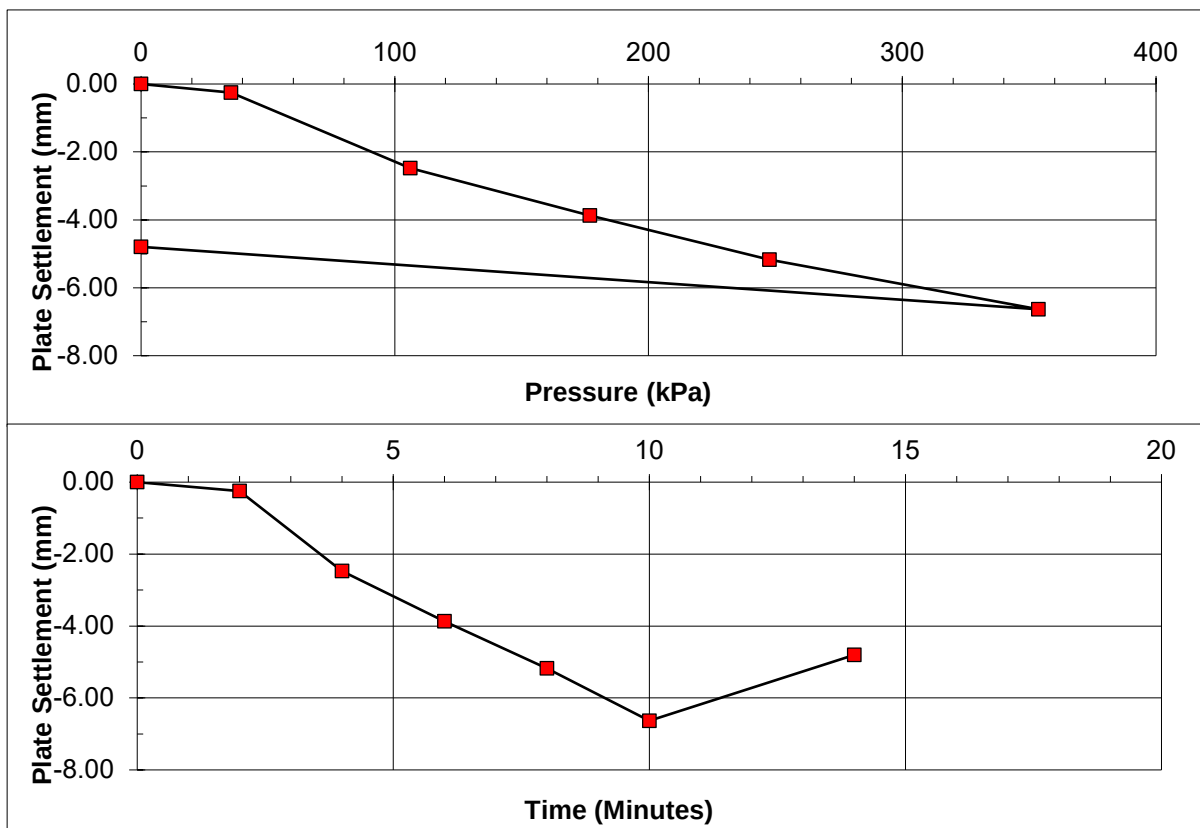
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C1	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4677	4689	4772	4713	0.00	0.00	0.0
4652	4651	4760	4688	-0.25	10.00	35.4
4371	4413	4612	4465	-2.47	30.00	106.1
4237	4258	4482	4326	-3.87	50.00	176.8
4092	4117	4376	4195	-5.18	70.00	247.6
3935	3960	4253	4049	-6.63	100.00	353.7
4098	4186	4414	4233	-4.80	0.00	0.0



Pressure at 1.25 mm deflexion =	67 kPa
Modulus of subgrade reaction (k) =	54 MPa/m
Equivalent 762 mm plate reaction =	43 MPa/m
Equivalent CBR =	6.6 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

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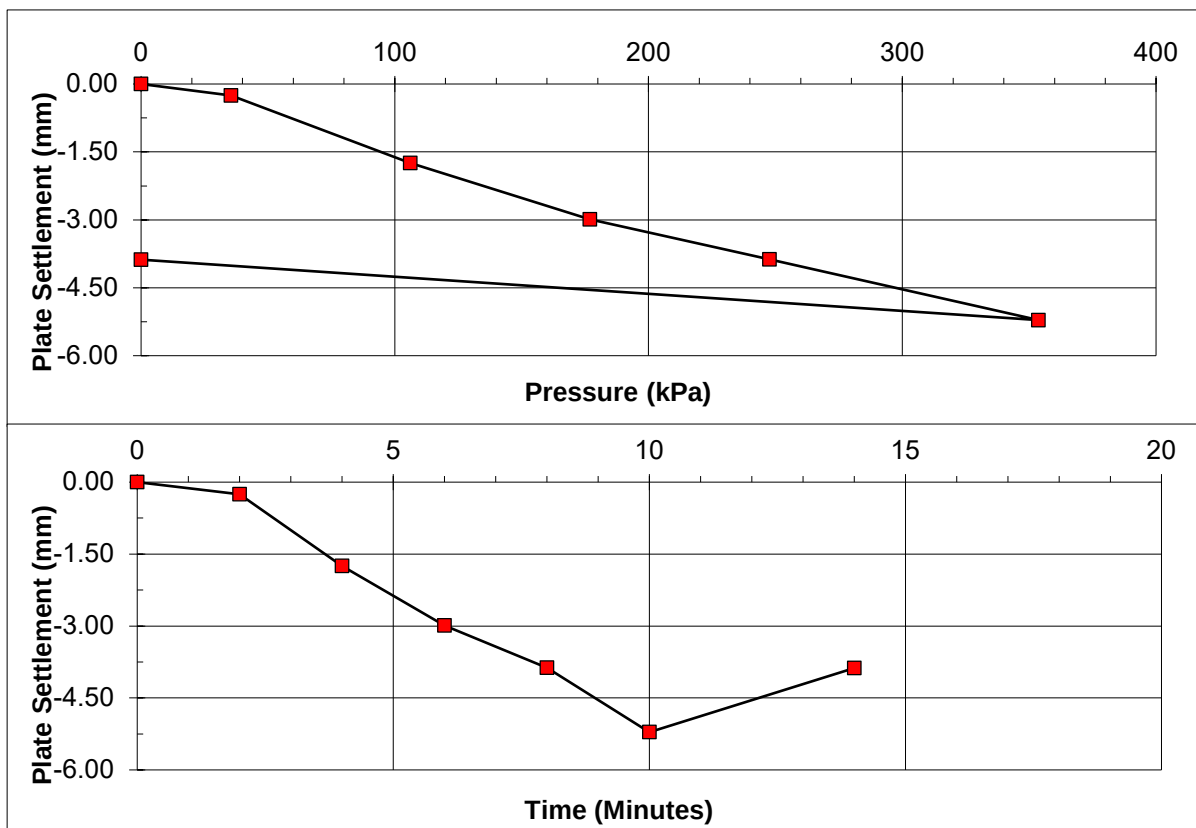
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4827	4859	4754	4813	0.00	0.00	0.0
4802	4827	4735	4788	-0.25	10.00	35.4
4637	4698	4581	4639	-1.75	30.00	106.1
4497	4571	4476	4515	-2.99	50.00	176.8
4419	4464	4396	4426	-3.87	70.00	247.6
4294	4296	4286	4292	-5.21	100.00	353.7
4381	4480	4416	4426	-3.88	0.00	0.0



Pressure at 1.25 mm deflexion =	83 kPa
Modulus of subgrade reaction (k) =	66 MPa/m
Equivalent 762 mm plate reaction =	53 MPa/m
Equivalent CBR =	9.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

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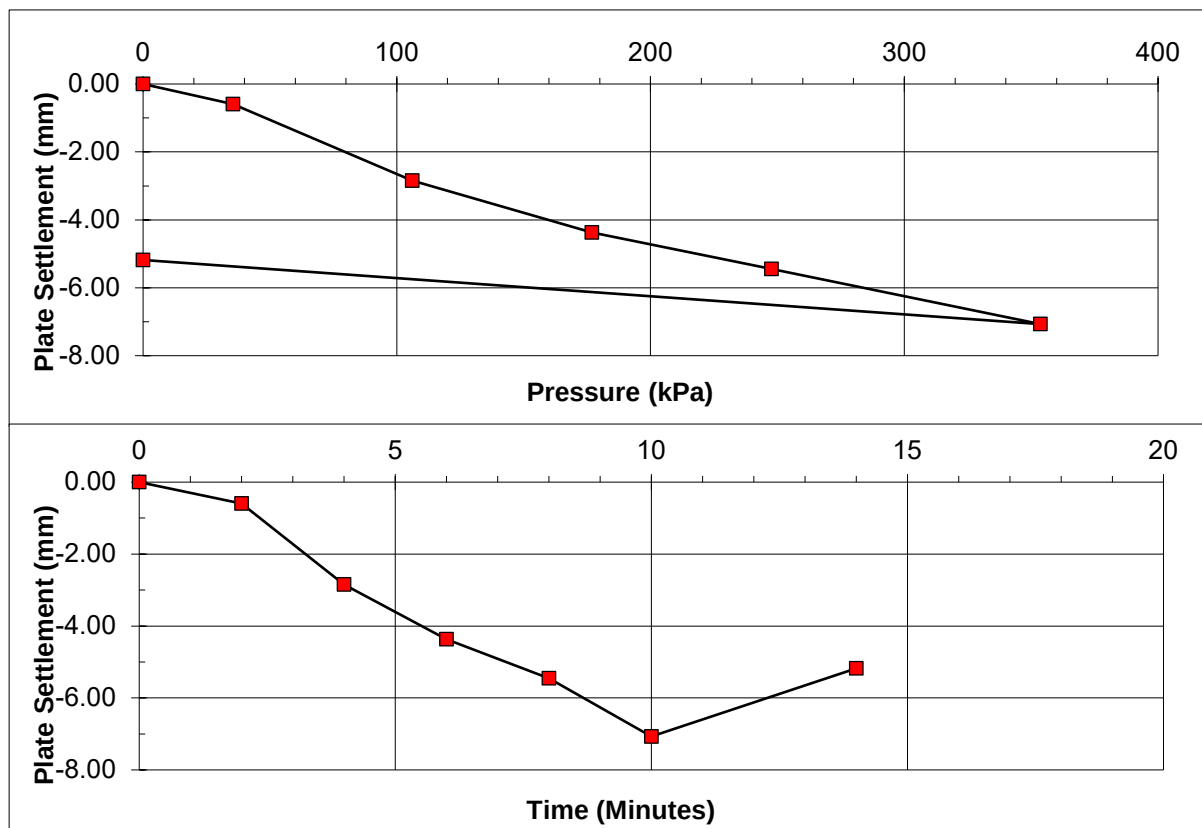
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C3	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4580	4734	4611	4642	0.00	0.00	0.0
4480	4707	4560	4582	-0.59	10.00	35.4
4192	4531	4349	4357	-2.84	30.00	106.1
4028	4398	4188	4205	-4.37	50.00	176.8
3911	4302	4077	4097	-5.45	70.00	247.6
3728	4151	3925	3935	-7.07	100.00	353.7
3970	4346	4055	4124	-5.18	0.00	0.0



Pressure at 1.25 mm deflexion =	56 kPa
Modulus of subgrade reaction (k) =	45 MPa/m
Equivalent 762 mm plate reaction =	36 MPa/m
Equivalent CBR =	4.8 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

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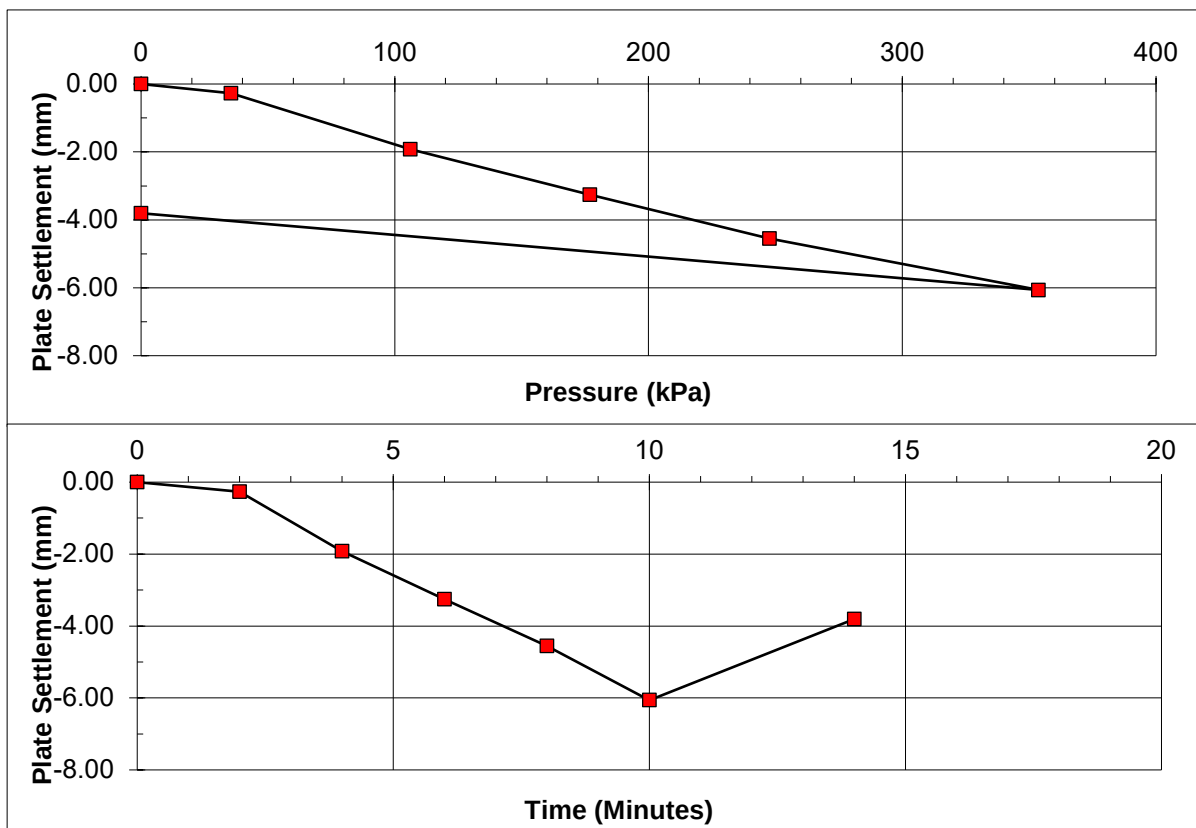
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C4	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4681	4829	4841	4784	0.00	0.00	0.0
4657	4784	4829	4757	-0.27	10.00	35.4
4508	4617	4649	4591	-1.92	30.00	106.1
4369	4466	4538	4458	-3.26	50.00	176.8
4248	4334	4403	4328	-4.55	70.00	247.6
4129	4132	4271	4177	-6.06	100.00	353.7
4303	4413	4493	4403	-3.81	0.00	0.0



Pressure at 1.25 mm deflexion =	77 kPa
Modulus of subgrade reaction (k) =	62 MPa/m
Equivalent 762 mm plate reaction =	50 MPa/m
Equivalent CBR =	8.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

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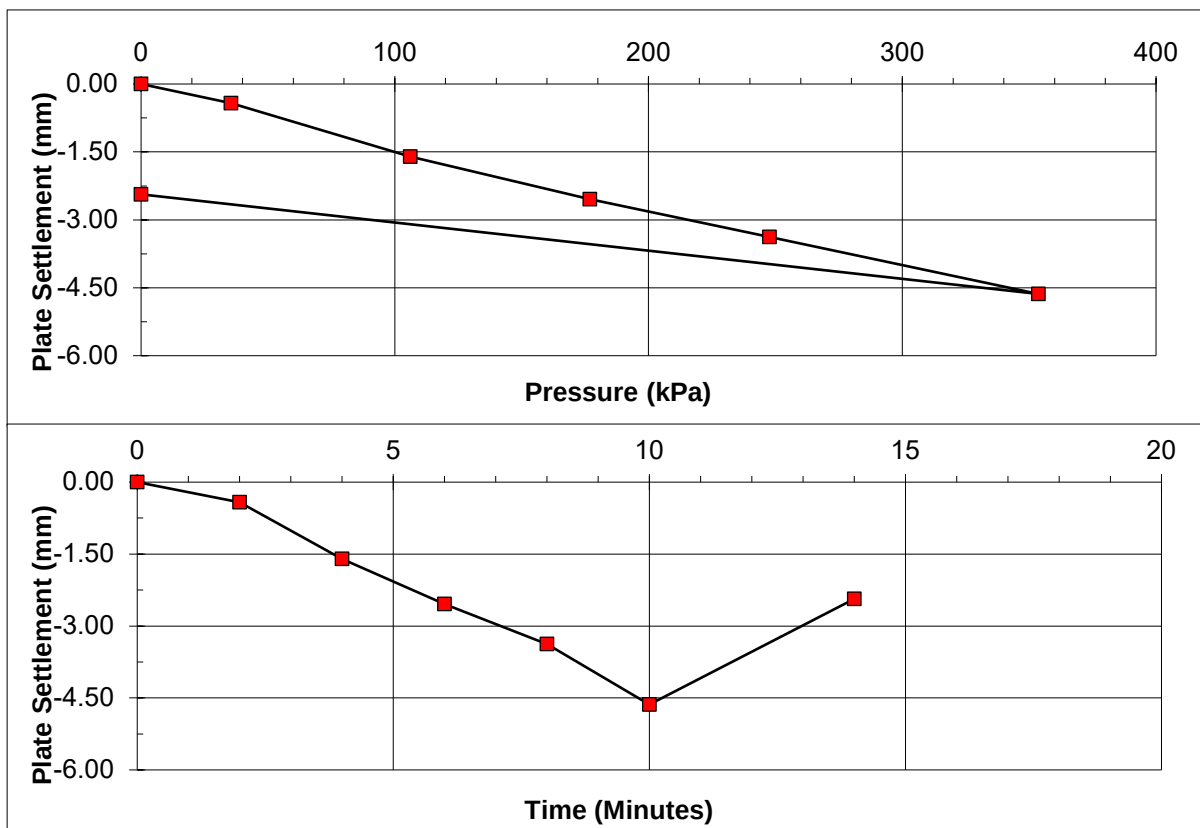
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C5	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4744	4679	4840	4754	0.00	0.00	0.0
4710	4625	4802	4712	-0.42	10.00	35.4
4568	4484	4730	4594	-1.60	30.00	106.1
4451	4381	4668	4500	-2.54	50.00	176.8
4374	4292	4584	4417	-3.38	70.00	247.6
4239	4145	4488	4291	-4.64	100.00	353.7
4478	4391	4663	4511	-2.44	0.00	0.0



Pressure at 1.25 mm deflexion =	85 kPa
Modulus of subgrade reaction (k) =	68 MPa/m
Equivalent 762 mm plate reaction =	55 MPa/m
Equivalent CBR =	9.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

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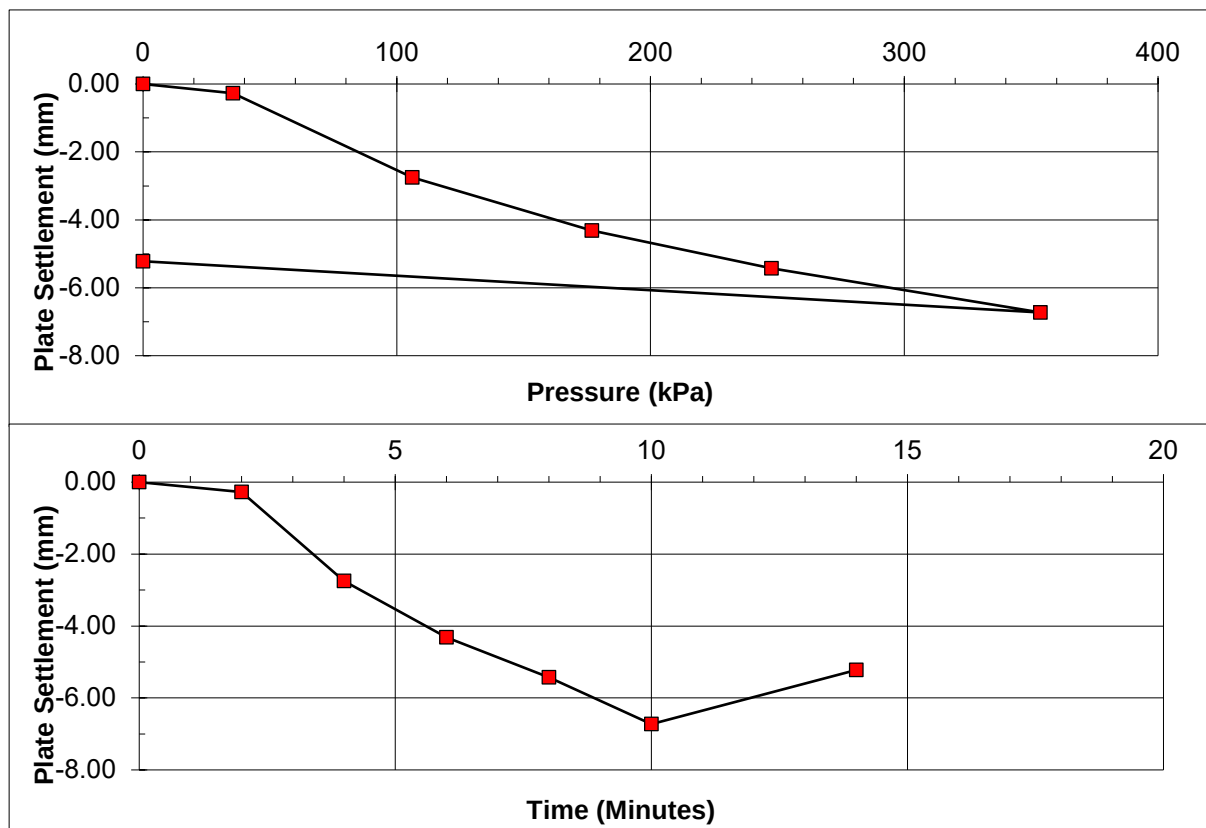
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C6	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4663	4831	4771	4755	0.00	0.00	0.0
4635	4792	4756	4728	-0.27	10.00	35.4
4445	4405	4590	4480	-2.75	30.00	106.1
4291	4251	4428	4323	-4.32	50.00	176.8
4185	4134	4318	4212	-5.43	70.00	247.6
4069	4025	4153	4082	-6.73	100.00	353.7
4173	4161	4364	4233	-5.22	0.00	0.0



Pressure at 1.25 mm deflexion =	63 kPa
Modulus of subgrade reaction (k) =	51 MPa/m
Equivalent 762 mm plate reaction =	41 MPa/m
Equivalent CBR =	5.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

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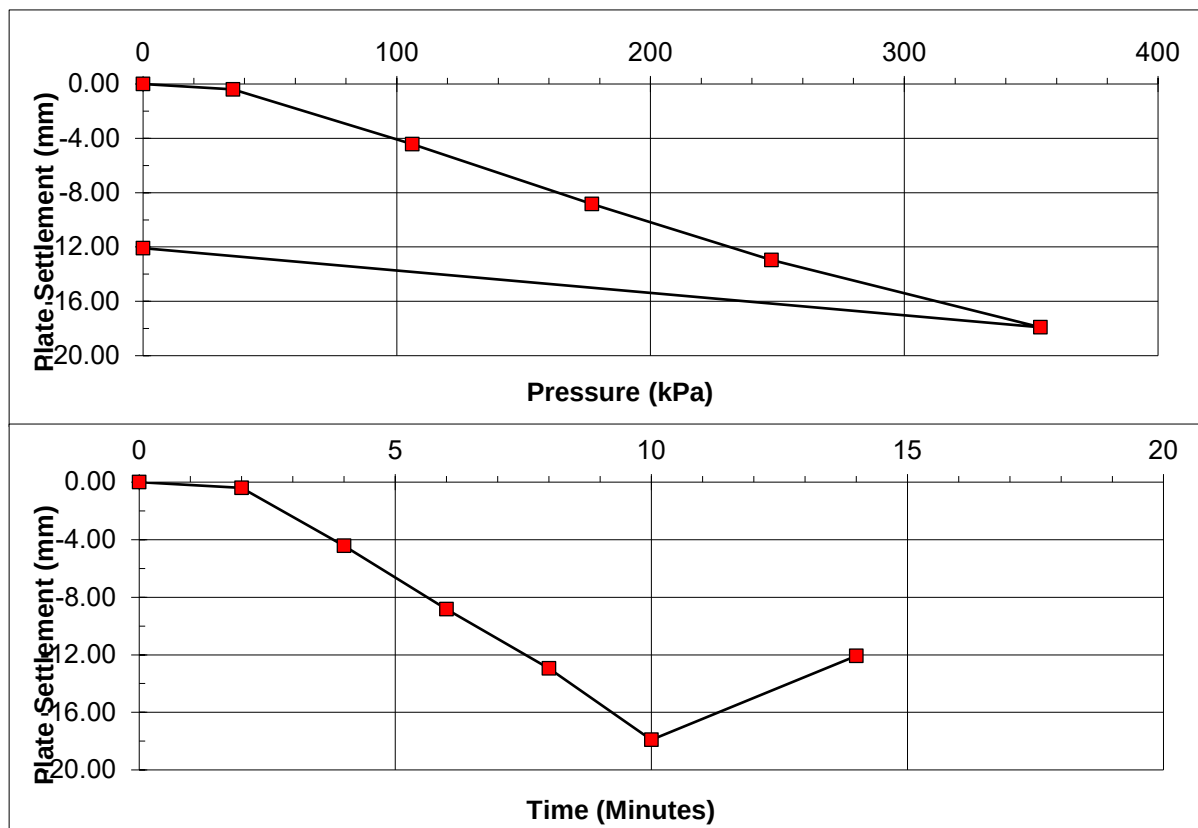
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C7	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4698	4716	4892	4769	0.00	0.00	0.0
4661	4651	4872	4728	-0.41	10.00	35.4
4254	4209	4513	4325	-4.43	30.00	106.1
3829	3717	4110	3885	-8.83	50.00	176.8
3416	3260	3745	3474	-12.95	70.00	247.6
2855	2780	3298	2978	-17.91	100.00	353.7
3378	3398	3905	3560	-12.08	0.00	0.0



Pressure at 1.25 mm deflexion =	50 kPa
Modulus of subgrade reaction (k) =	40 MPa/m
Equivalent 762 mm plate reaction =	32 MPa/m
Equivalent CBR =	4.0 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870



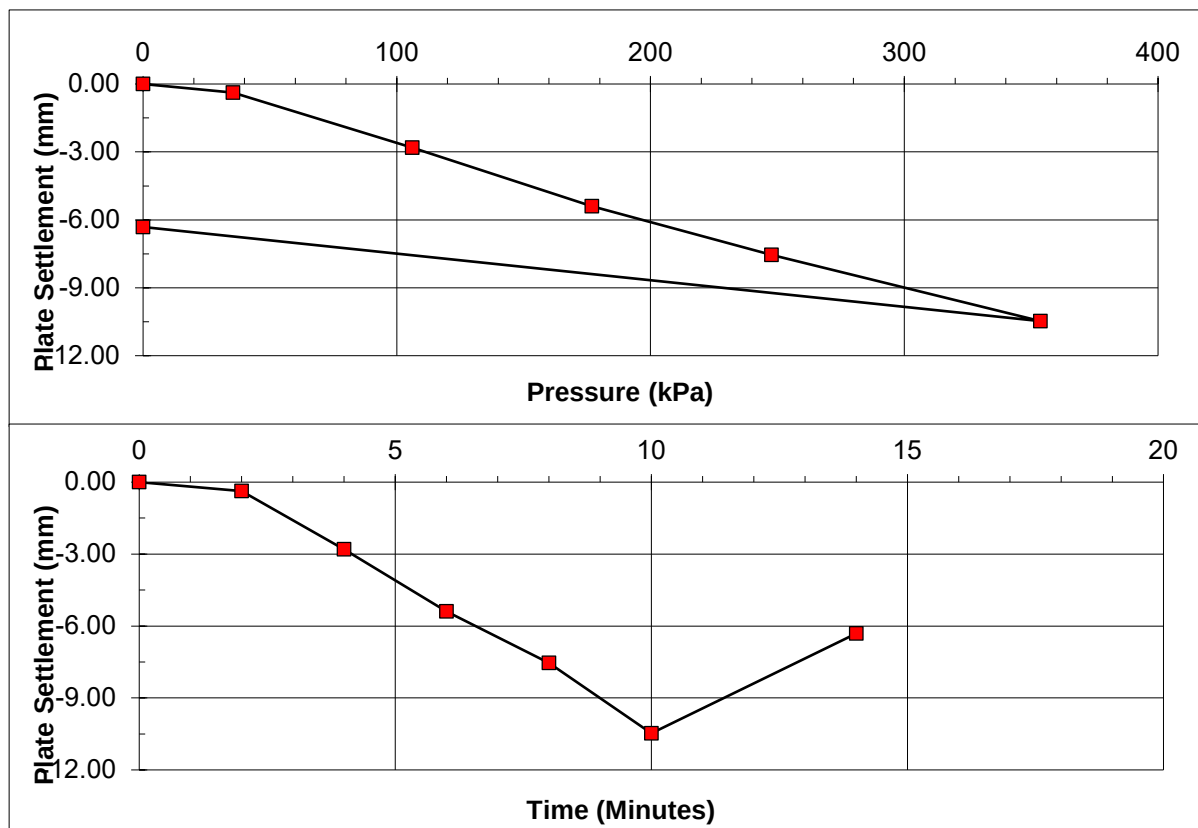
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C8	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4611	4791	4741	4714	0.00	0.00	0.0
4563	4754	4713	4677	-0.38	10.00	35.4
4291	4517	4493	4434	-2.81	30.00	106.1
4023	4240	4262	4175	-5.39	50.00	176.8
3812	4001	4068	3960	-7.54	70.00	247.6
3510	3686	3805	3667	-10.47	100.00	353.7
3849	4119	4281	4083	-6.31	0.00	0.0



Pressure at 1.25 mm deflexion =	61 kPa
Modulus of subgrade reaction (k) =	49 MPa/m
Equivalent 762 mm plate reaction =	39 MPa/m
Equivalent CBR =	5.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

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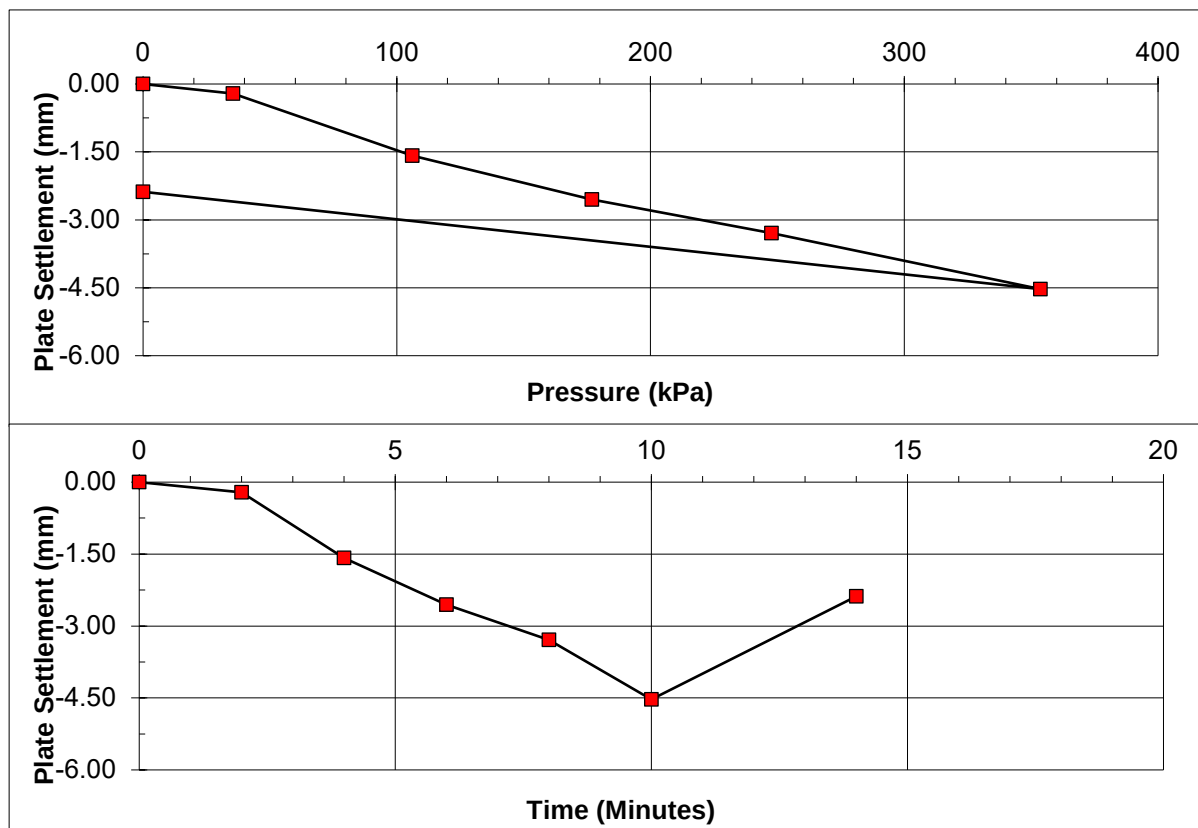
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C9	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4821	4860	4793	4825	0.00	0.00	0.0
4796	4832	4782	4803	-0.21	10.00	35.4
4655	4699	4645	4666	-1.58	30.00	106.1
4549	4610	4549	4569	-2.55	50.00	176.8
4469	4549	4469	4496	-3.29	70.00	247.6
4340	4430	4345	4372	-4.53	100.00	353.7
4551	4640	4569	4587	-2.38	0.00	0.0



Pressure at 1.25 mm deflexion =	89 kPa
Modulus of subgrade reaction (k) =	71 MPa/m
Equivalent 762 mm plate reaction =	57 MPa/m
Equivalent CBR =	10.7 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870



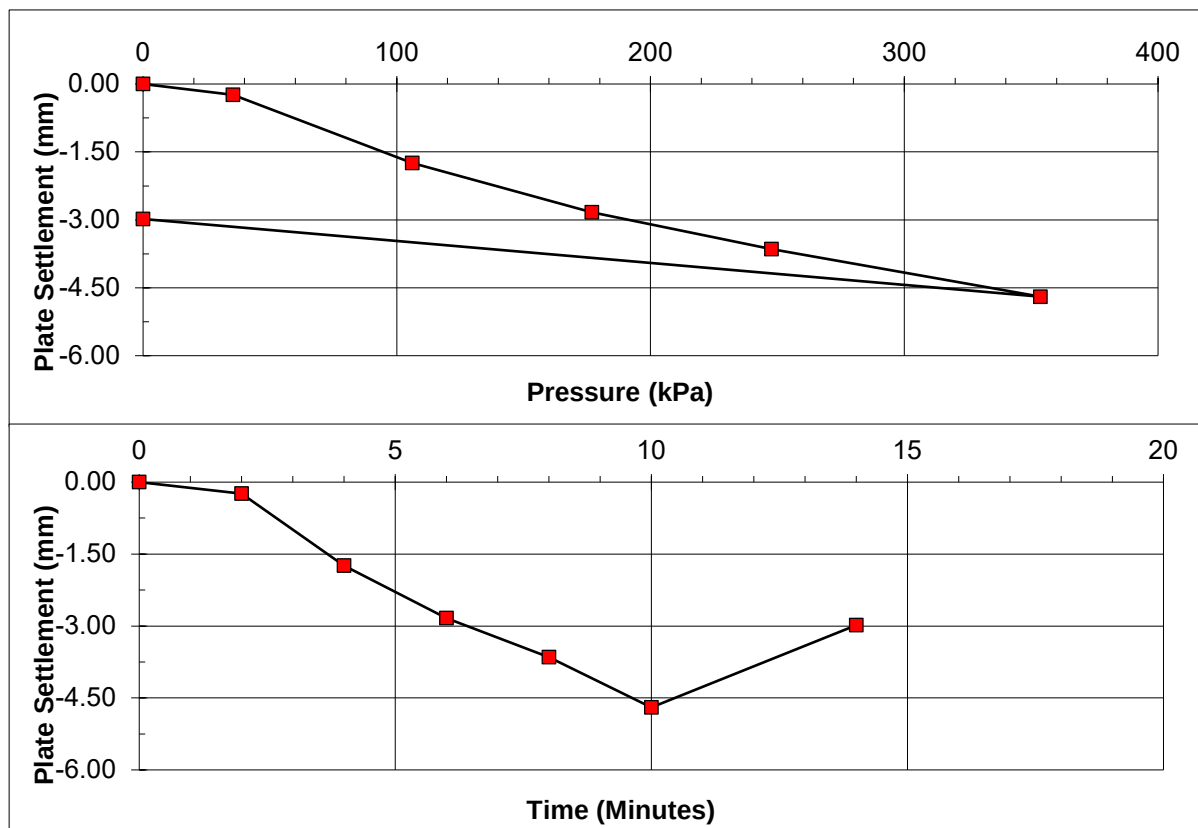
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/1		
TEST LOCATION	C10	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	03-Feb-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial	Dial	Dial	Mean	Mean	Load	Pressure
Gauge 1	Gauge 2	Gauge 3	Gauge	Deflection	(kN)	(kPa)
(mmx100)	(mmx100)	(mmx100)	(mmx100)	(mm)		
4894	4672	4804	4790	0.00	0.00	0.0
4877	4633	4788	4766	-0.24	10.00	35.4
4725	4443	4679	4616	-1.74	30.00	106.1
4617	4309	4594	4507	-2.83	50.00	176.8
4546	4200	4530	4425	-3.65	70.00	247.6
4454	4060	4447	4320	-4.70	100.00	353.7
4529	4312	4634	4492	-2.98	0.00	0.0



Pressure at 1.25 mm deflexion =	83 kPa
Modulus of subgrade reaction (k) =	66 MPa/m
Equivalent 762 mm plate reaction =	53 MPa/m
Equivalent CBR =	9.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 04-Feb-22

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 14/02/2022

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM4

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

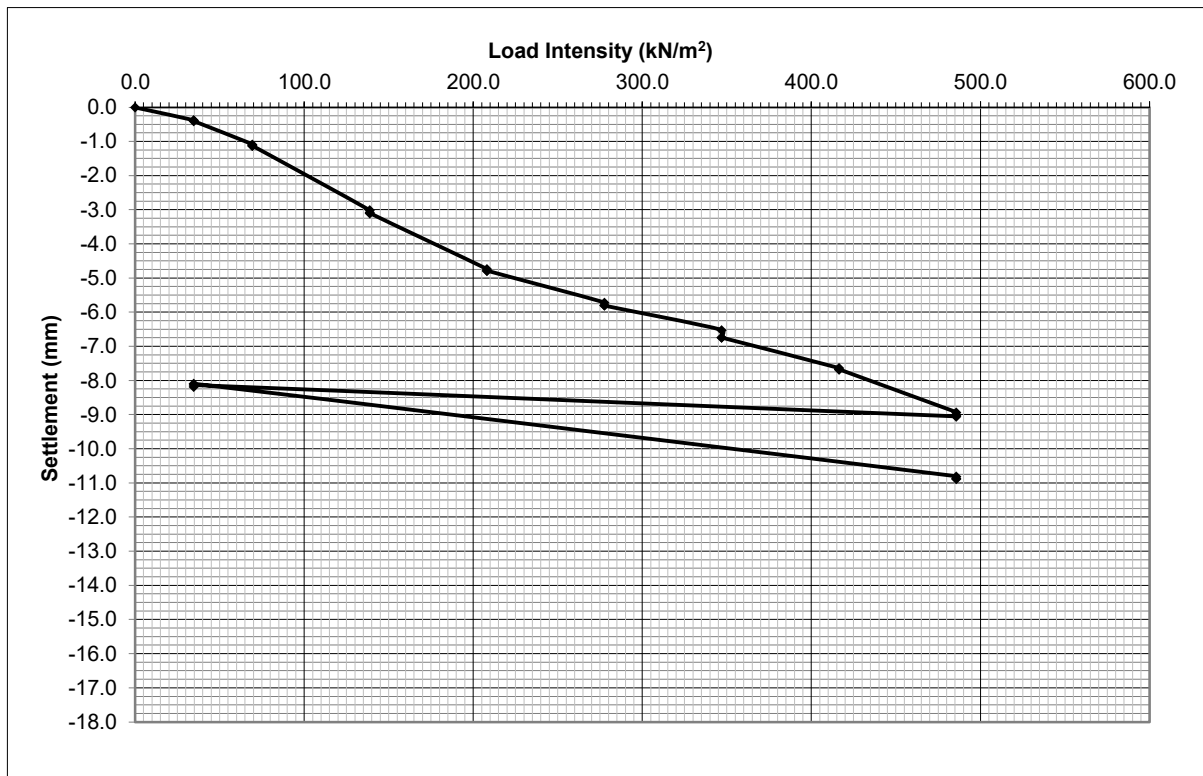
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -10.88

Weather: Overcast

Strata Description: Formation



Equivalent CBR Value of: 8.3 %
Corrected Subgrade Reaction (k₇₆₂): 49,200 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
RC	14.2.22	PD	15.2.22

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 14/02/2022

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM5

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

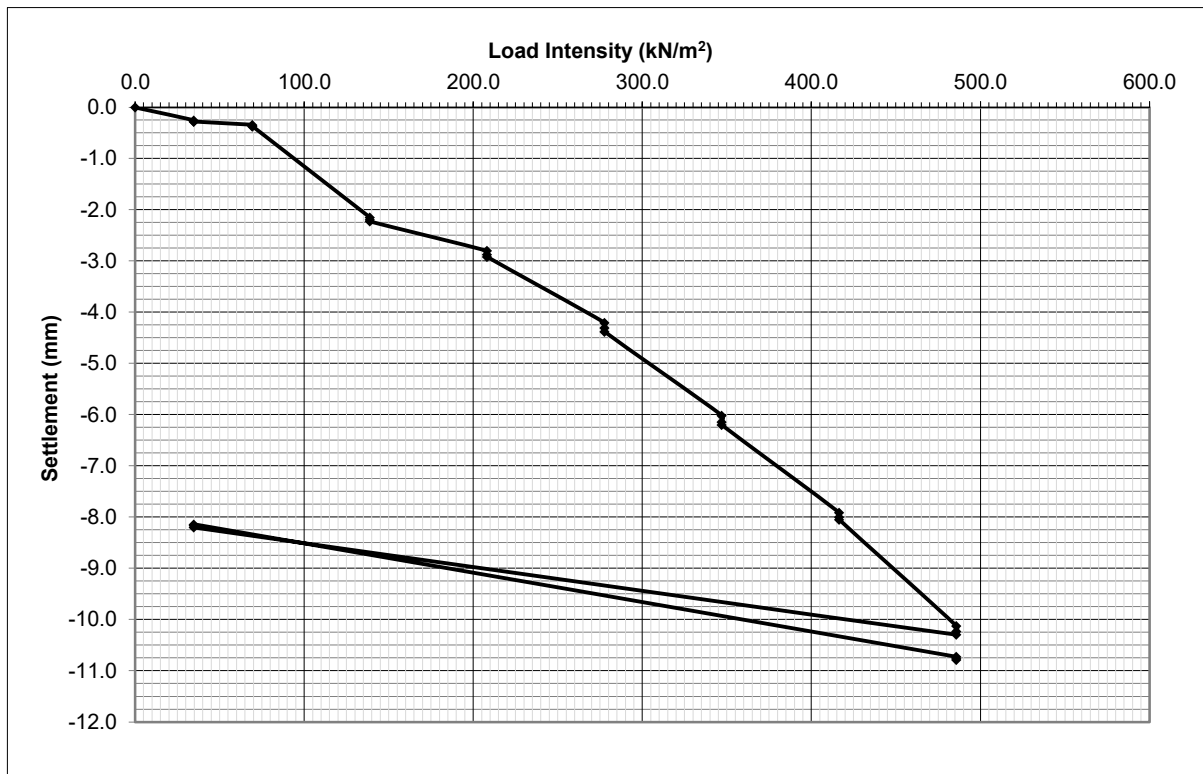
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -10.78

Weather: Overcast

Strata Description: Formation



Equivalent CBR Value of: 14.8 %
Corrected Subgrade Reaction (k₇₆₂): 68,880 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
RC	14.2.22	PD	15.2.22

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 14/02/2022

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM6

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

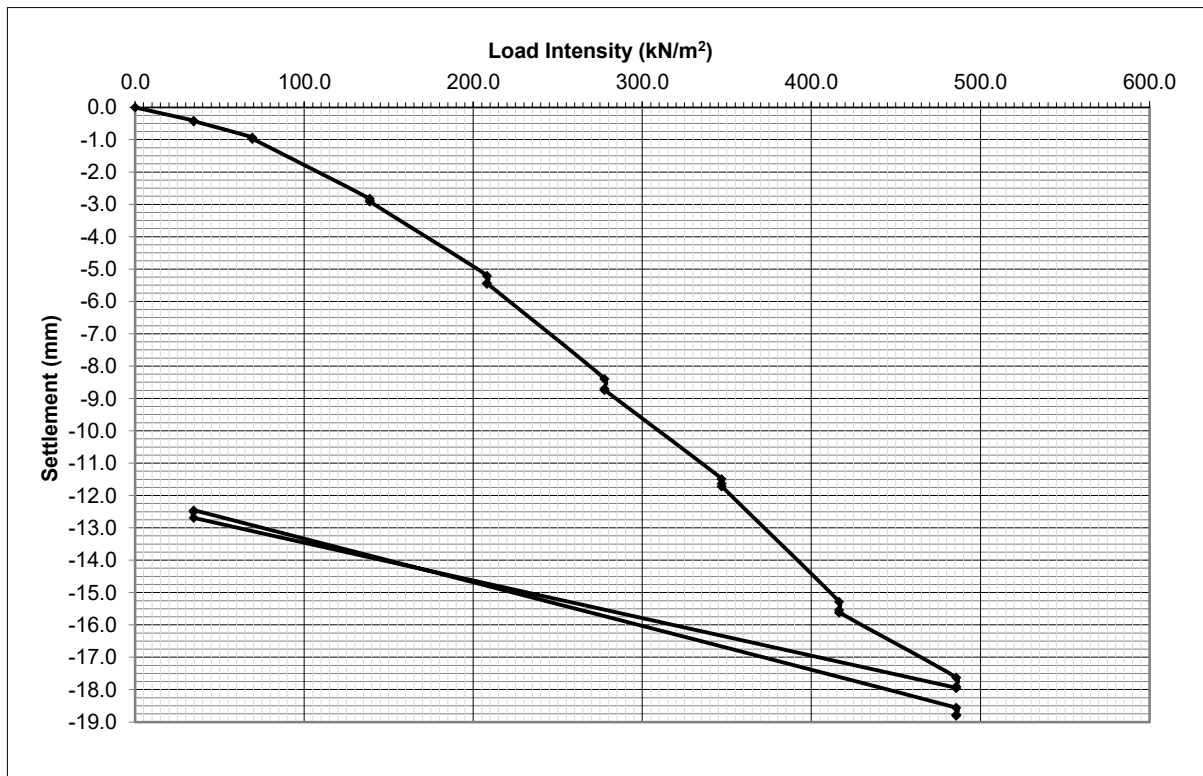
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -18.79

Weather: Overcast

Strata Description: Formation



Equivalent CBR Value of: 9.2 %
Corrected Subgrade Reaction (k₇₆₂): 52,480 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
RC	14.2.22	PD	15.2.22

Vertical Deformation Test-Equivalent CBR Value

In Accordance with BS1377: Part 9:1990

Site Name: Collyhurst

Test Date: 14/02/2022

Site Ref: LKR201044

Type of Kentledge: 25T Excavator

Test No.: TM7

Test Depth (m bgl): 0.00

Plate Diameter (mm) 600

Easting: 0

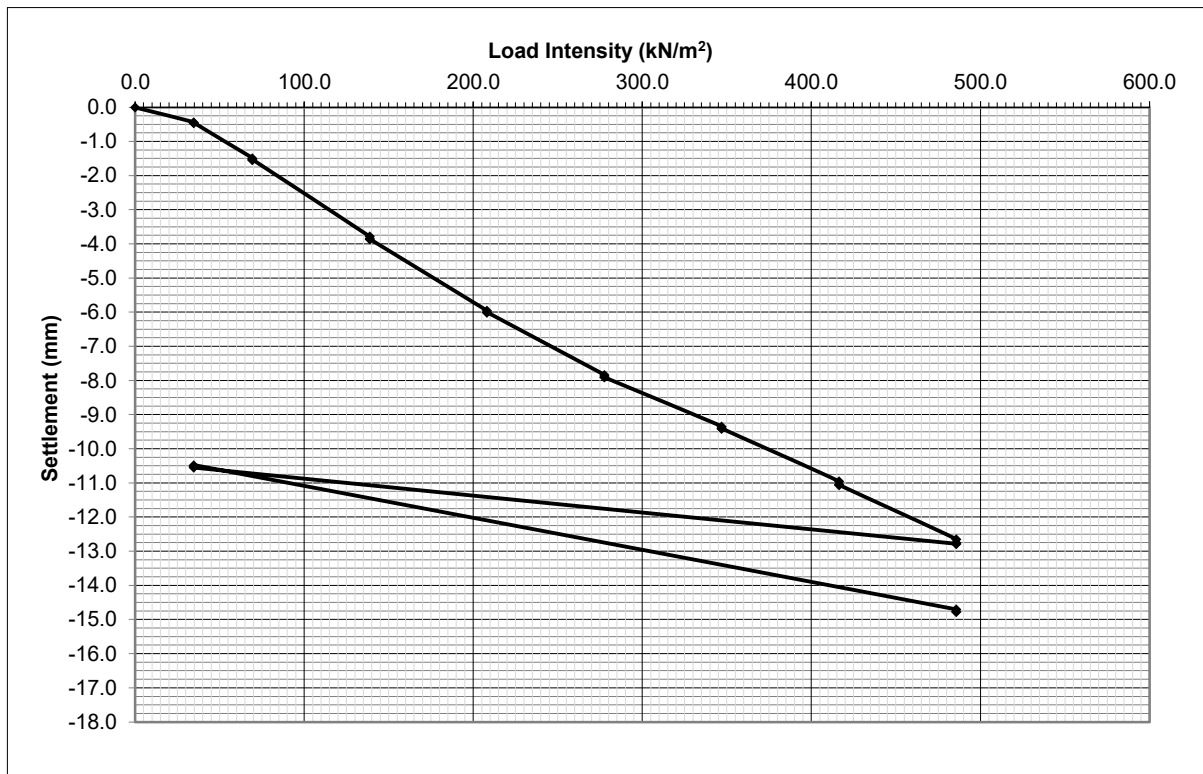
Maximum Applied Pressure (kN/m²): 485.74

Northing: 0

Maximum Deformation (mm): -14.77

Weather: Overcast

Strata Description: Formation



Equivalent CBR Value of: 6.4 %
Corrected Subgrade Reaction (k₇₆₂): 42,640 kN/m²

Comments

Site Engineer:	Date:	Approved By:	Date:
RC	14.2.22	PD	15.2.22

TEST REPORT

Client LK Remediate Ltd

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKR 20 1044 -
Collyhurst

Job Number MRN 4297/5A
Date of Issue 05 April 2022
Pages 1 of 10

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
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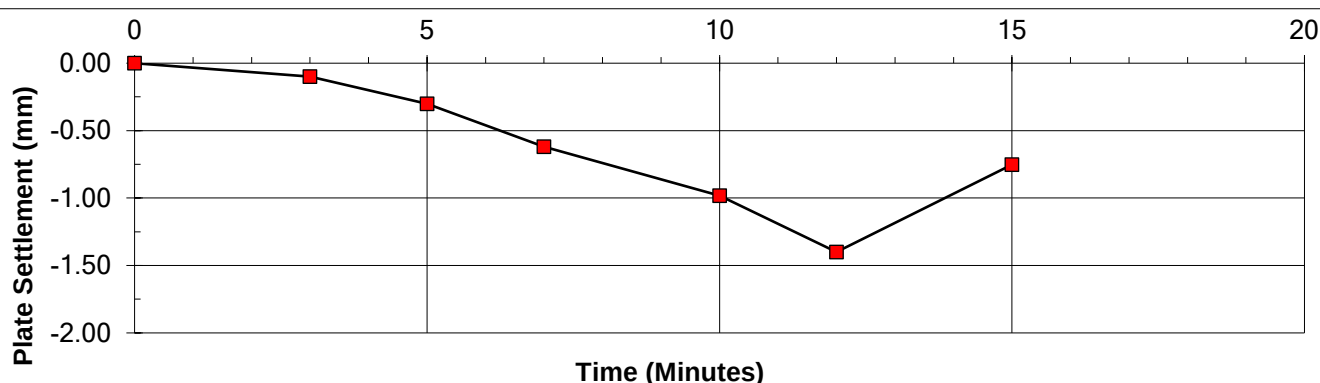
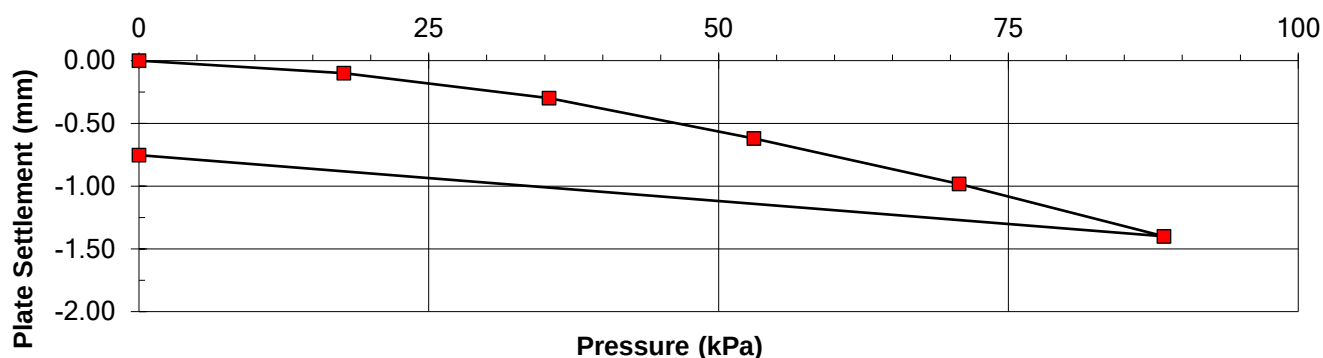
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 01 - 25	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4472	4486	4527	4495	0.00	0.00	0.0
4463	4472	4520	4485	-0.10	5.00	17.7
4436	4451	4508	4465	-0.30	10.00	35.4
4402	4420	4477	4433	-0.62	15.00	53.1
4367	4382	4441	4397	-0.98	20.00	70.7
4318	4347	4400	4355	-1.40	25.00	88.4
4383	4408	4468	4420	-0.75	0.00	0.0



Pressure at 1.25 mm deflexion =	82 kPa
Modulus of subgrade reaction (k) =	66 MPa/m
Equivalent 762 mm plate reaction =	53 MPa/m
Equivalent CBR =	9.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

MURRAY RIX

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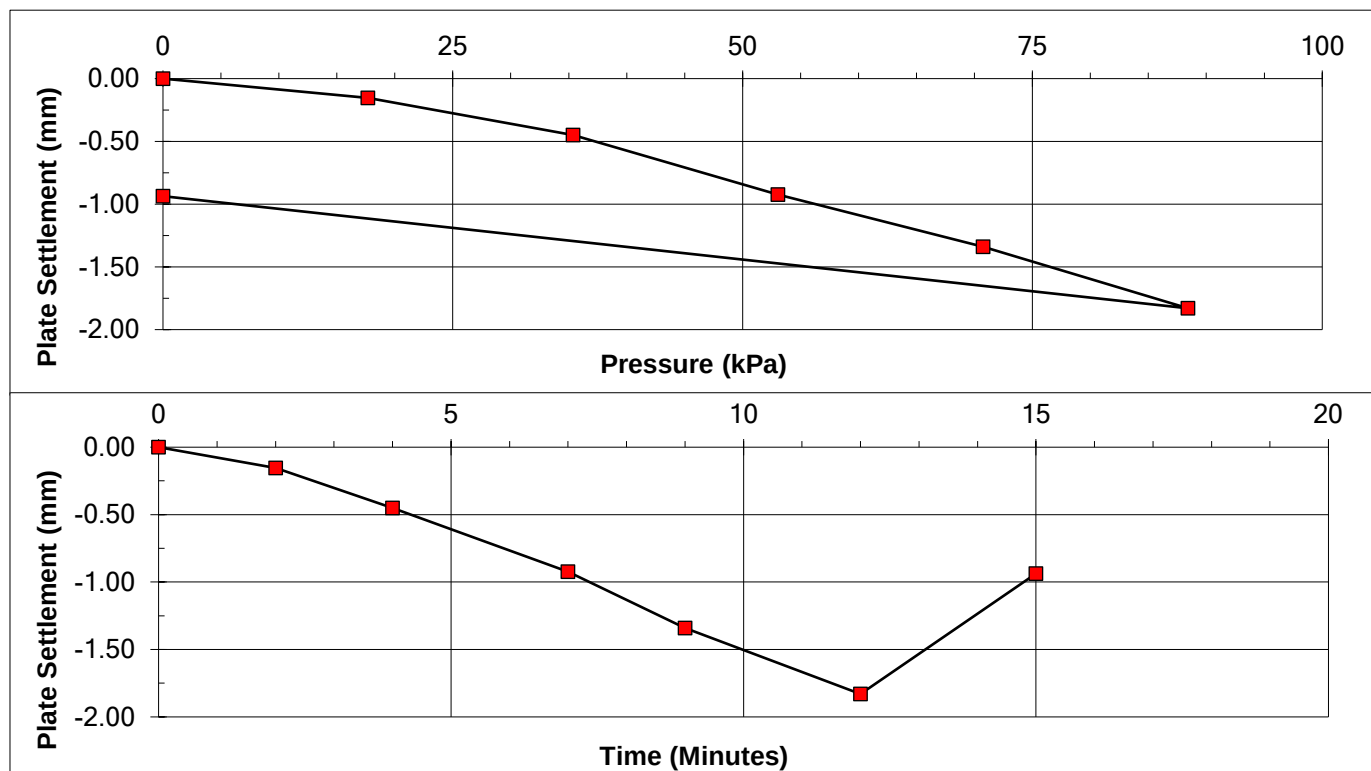
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 02 - 24	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4534	4481	4607	4541	0.00	0.00	0.0
4516	4469	4591	4525	-0.15	5.00	17.7
4475	4447	4565	4496	-0.45	10.00	35.4
4426	4406	4513	4448	-0.92	15.00	53.1
4371	4372	4477	4407	-1.34	20.00	70.7
4321	4322	4430	4358	-1.83	25.00	88.4
4434	4409	4498	4447	-0.94	0.00	0.0



Pressure at 1.25 mm deflexion =	67 kPa
Modulus of subgrade reaction (k) =	54 MPa/m
Equivalent 762 mm plate reaction =	43 MPa/m
Equivalent CBR =	6.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

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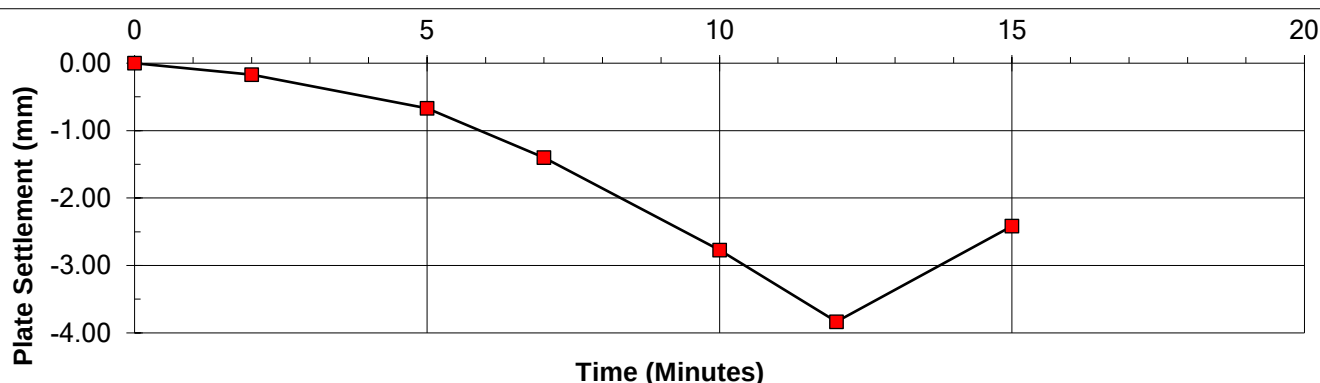
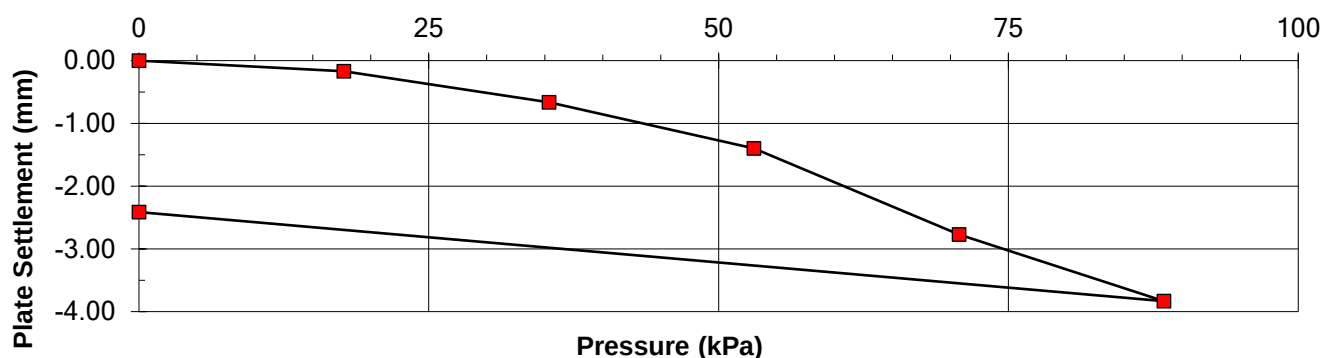
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 03 - 22	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4425	4473	4459	4452	0.00	0.00	0.0
4403	4461	4442	4435	-0.17	5.00	17.7
4353	4416	4388	4386	-0.67	10.00	35.4
4261	4349	4327	4312	-1.40	15.00	53.1
4126	4205	4195	4175	-2.77	20.00	70.7
4035	4106	4066	4069	-3.83	25.00	88.4
4175	4297	4160	4211	-2.42	0.00	0.0



Pressure at 1.25 mm deflexion =	49 kPa
Modulus of subgrade reaction (k) =	40 MPa/m
Equivalent 762 mm plate reaction =	32 MPa/m
Equivalent CBR =	3.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

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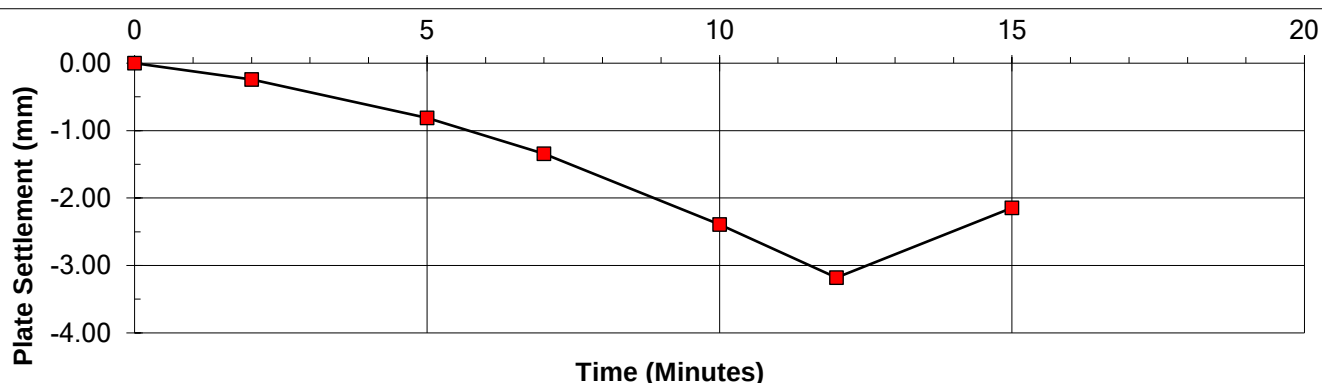
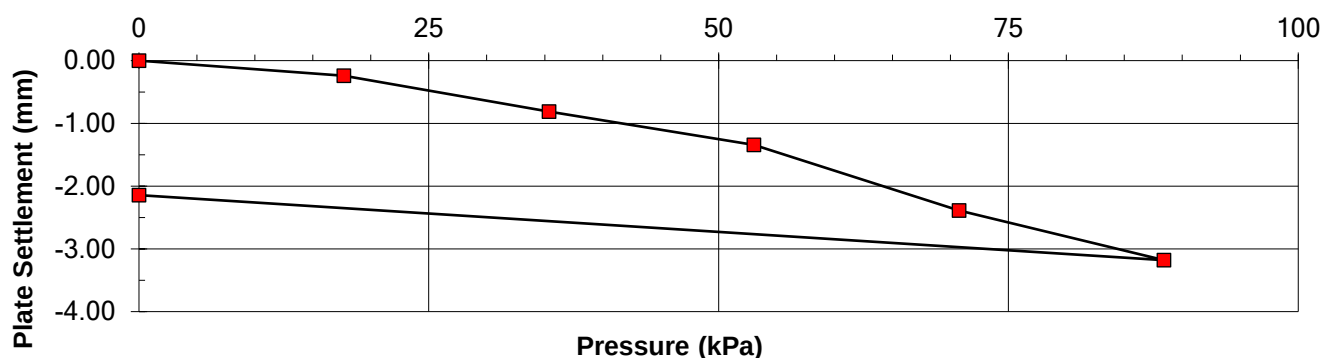
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 04 - 21	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4362	4444	4474	4427	0.00	0.00	0.0
4335	4412	4460	4402	-0.24	5.00	17.7
4271	4362	4404	4346	-0.81	10.00	35.4
4218	4323	4336	4292	-1.34	15.00	53.1
4127	4160	4276	4188	-2.39	20.00	70.7
4041	4091	4194	4109	-3.18	25.00	88.4
4148	4186	4303	4212	-2.14	0.00	0.0



Pressure at 1.25 mm deflexion =	50 kPa
Modulus of subgrade reaction (k) =	40 MPa/m
Equivalent 762 mm plate reaction =	32 MPa/m
Equivalent CBR =	3.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

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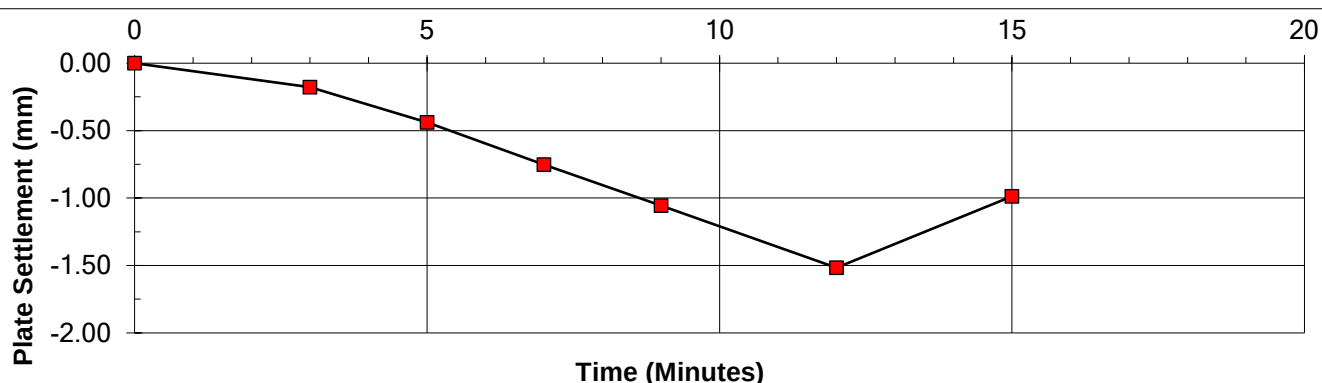
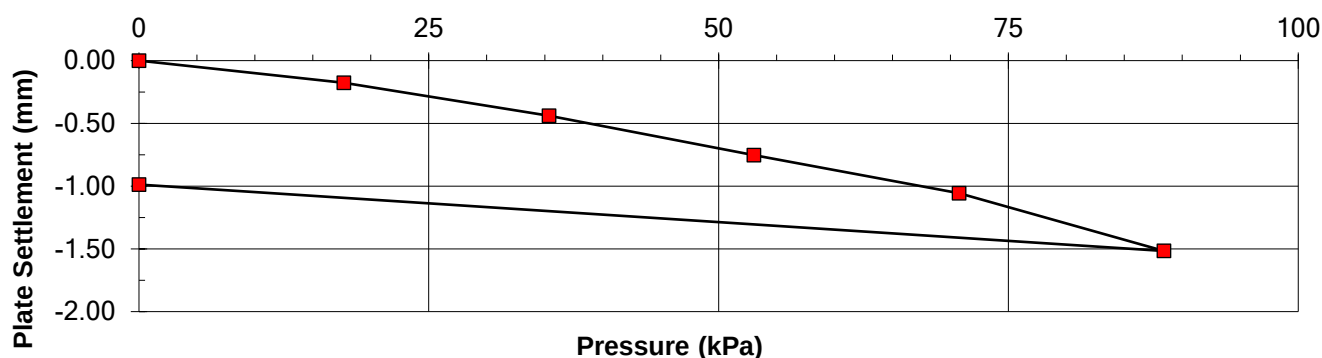
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 05 - 20	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4529	4593	4514	4545	0.00	0.00	0.0
4505	4577	4501	4528	-0.18	5.00	17.7
4481	4547	4476	4501	-0.44	10.00	35.4
4456	4516	4438	4470	-0.75	15.00	53.1
4436	4481	4402	4440	-1.06	20.00	70.7
4392	4444	4345	4394	-1.52	25.00	88.4
4437	4485	4418	4447	-0.99	0.00	0.0



Pressure at 1.25 mm deflexion =	78 kPa
Modulus of subgrade reaction (k) =	63 MPa/m
Equivalent 762 mm plate reaction =	50 MPa/m
Equivalent CBR =	8.6 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

MURRAY RIX

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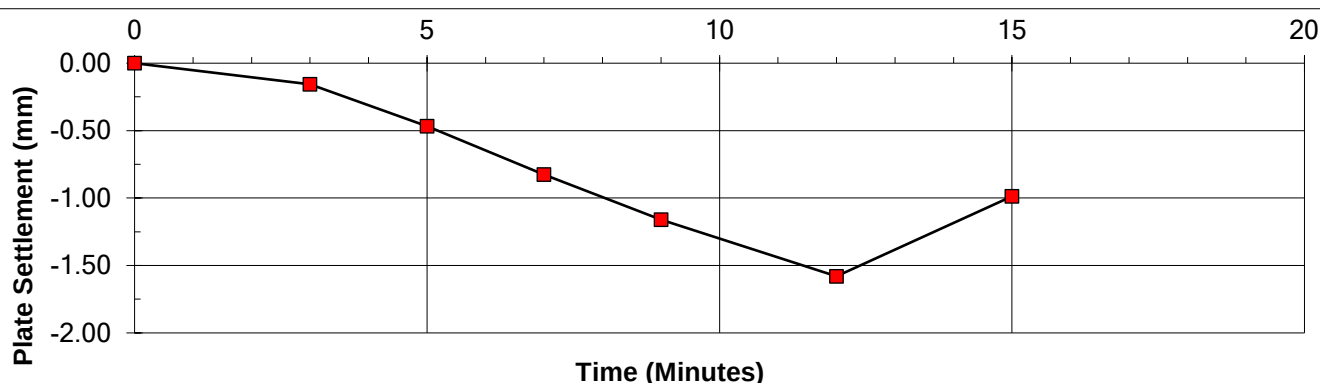
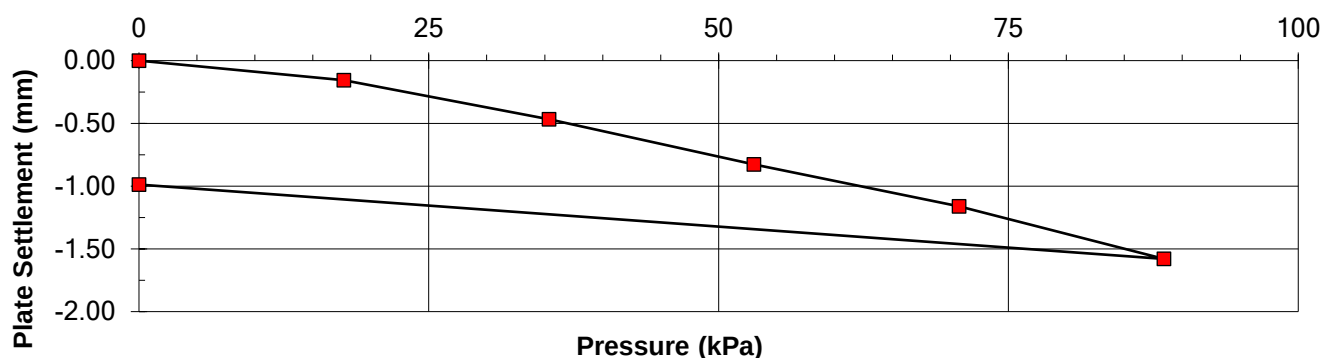
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 06 - 23	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4533	4486	4513	4511	0.00	0.00	0.0
4518	4469	4498	4495	-0.16	5.00	17.7
4485	4437	4470	4464	-0.47	10.00	35.4
4444	4407	4433	4428	-0.83	15.00	53.1
4410	4373	4401	4395	-1.16	20.00	70.7
4355	4336	4367	4353	-1.58	25.00	88.4
4406	4393	4437	4412	-0.99	0.00	0.0



Pressure at 1.25 mm deflexion =	75 kPa
Modulus of subgrade reaction (k) =	60 MPa/m
Equivalent 762 mm plate reaction =	48 MPa/m
Equivalent CBR =	7.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

MURRAY RIX

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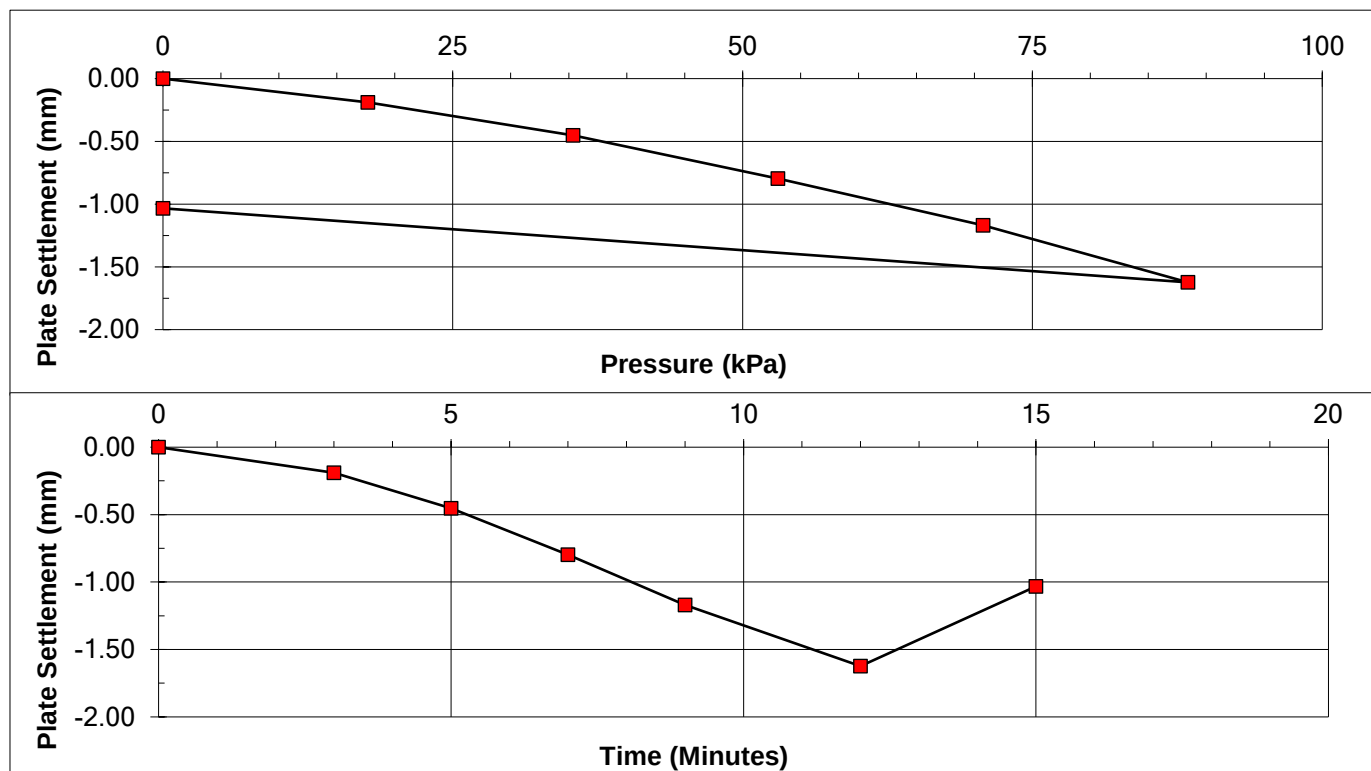
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 07 - 17	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4529	4533	4443	4502	0.00	0.00	0.0
4504	4518	4426	4483	-0.19	5.00	17.7
4475	4492	4402	4456	-0.45	10.00	35.4
4438	4461	4367	4422	-0.80	15.00	53.1
4404	4420	4330	4385	-1.17	20.00	70.7
4362	4380	4276	4339	-1.62	25.00	88.4
4433	4446	4316	4398	-1.03	0.00	0.0



Pressure at 1.25 mm deflexion =	74 kPa
Modulus of subgrade reaction (k) =	59 MPa/m
Equivalent 762 mm plate reaction =	48 MPa/m
Equivalent CBR =	7.8 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
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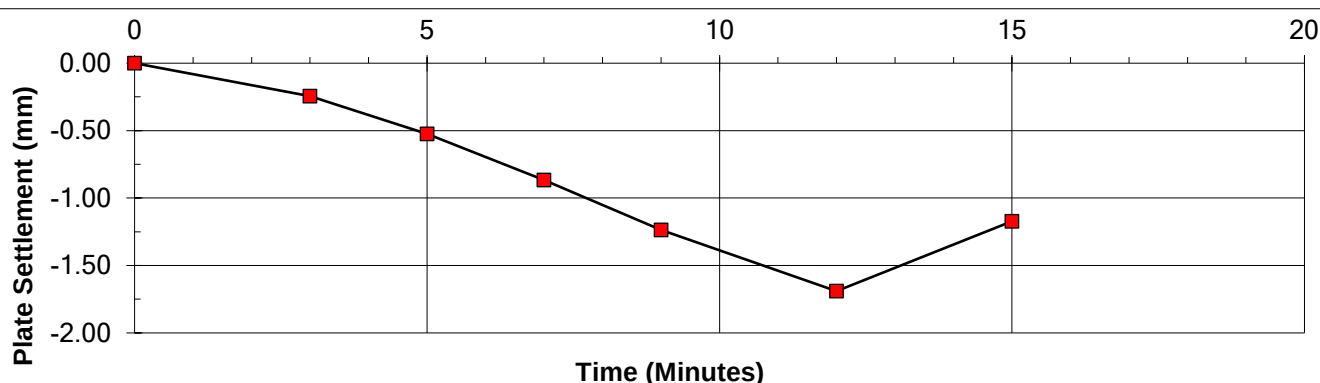
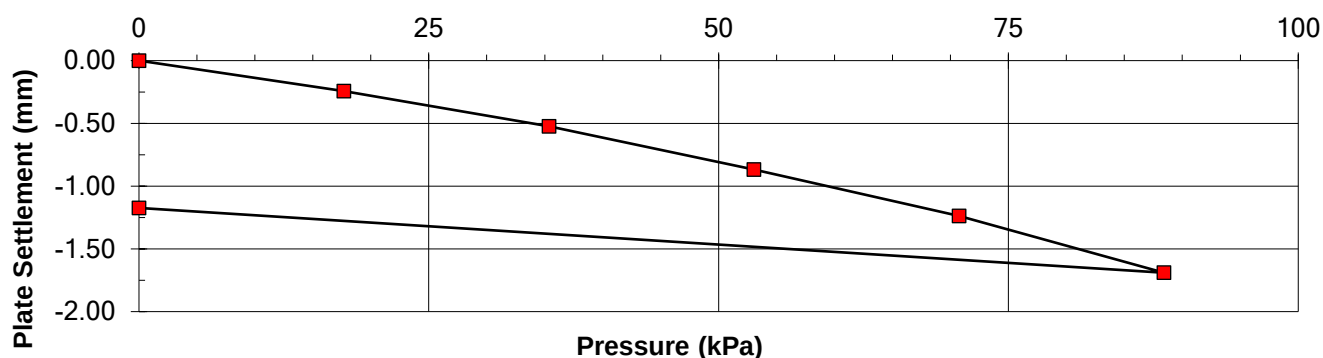
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/5A		
TEST LOCATION	Test 08 - 18	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	21-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4569	4566	4615	4583	0.00	0.00	0.0
4538	4544	4595	4559	-0.24	5.00	17.7
4512	4518	4563	4531	-0.52	10.00	35.4
4478	4491	4521	4497	-0.87	15.00	53.1
4442	4454	4483	4460	-1.24	20.00	70.7
4392	4405	4446	4414	-1.69	25.00	88.4
4434	4457	4507	4466	-1.17	0.00	0.0



Pressure at 1.25 mm deflexion =	71 kPa
Modulus of subgrade reaction (k) =	57 MPa/m
Equivalent 762 mm plate reaction =	46 MPa/m
Equivalent CBR =	7.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



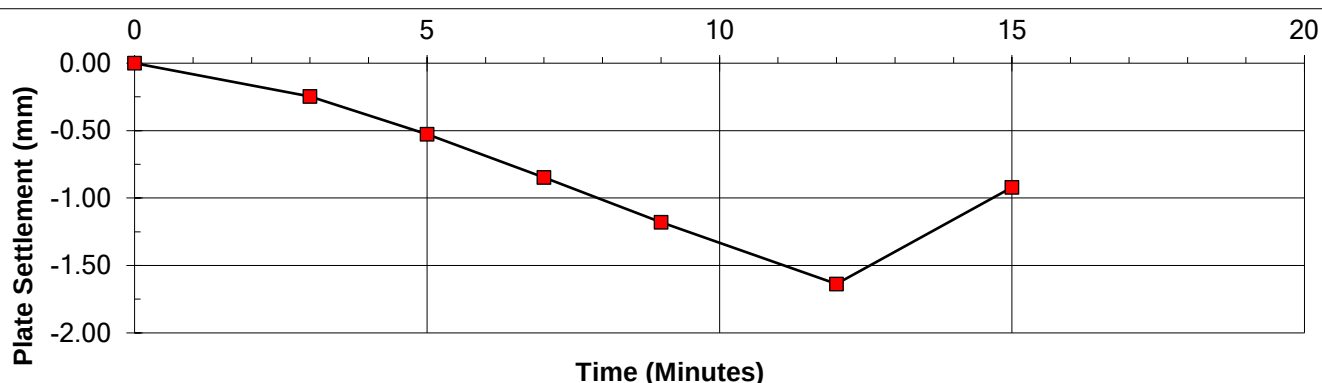
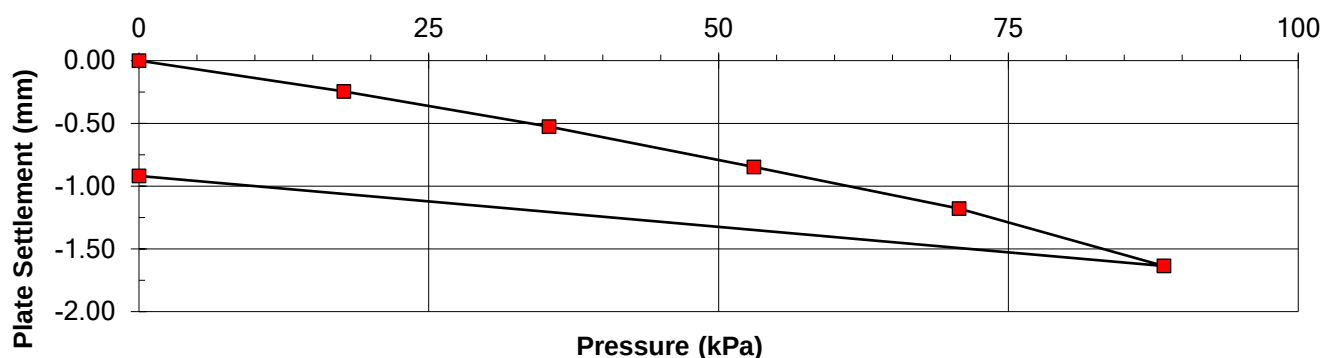
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd					
SITE	LKR 20 1044 - Collyhurst					
JOB NUMBER	MRN 4297/5A					
TEST LOCATION	Test 09 - 19	LOADING DEVICE		20 Tonne Enerpac Jack		
TEST DATE	21-Mar-22	PLATE SIZE (mm)		600 diameter		
TEST DEPTH	Surface	REACTION LOAD USED		Site Plant		
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT		Not Required		

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4441	4463	4486	4463	0.00	0.00	0.0
4417	4444	4455	4439	-0.25	5.00	17.7
4391	4415	4426	4411	-0.53	10.00	35.4
4358	4382	4396	4379	-0.85	15.00	53.1
4327	4343	4366	4345	-1.18	20.00	70.7
4276	4297	4326	4300	-1.64	25.00	88.4
4339	4377	4398	4371	-0.92	0.00	0.0



Pressure at 1.25 mm deflexion =	73 kPa
Modulus of subgrade reaction (k) =	59 MPa/m
Equivalent 762 mm plate reaction =	47 MPa/m
Equivalent CBR =	7.7 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Apr-22

TEST REPORT

Client LK Remediate Ltd

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKR 20 1044 -
Collyhurst

Job Number MRN 4297/6
Date of Issue 25 March 2022
Pages 1 of 14

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



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Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

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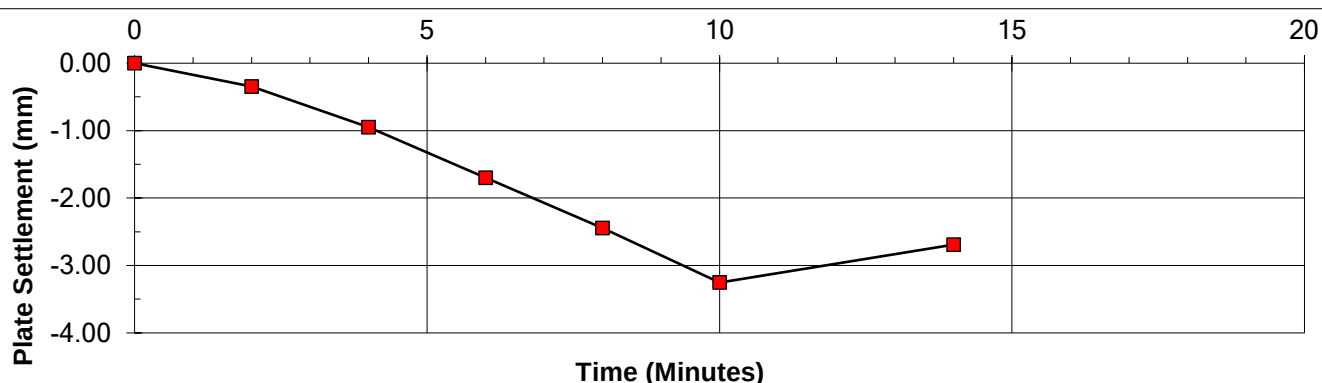
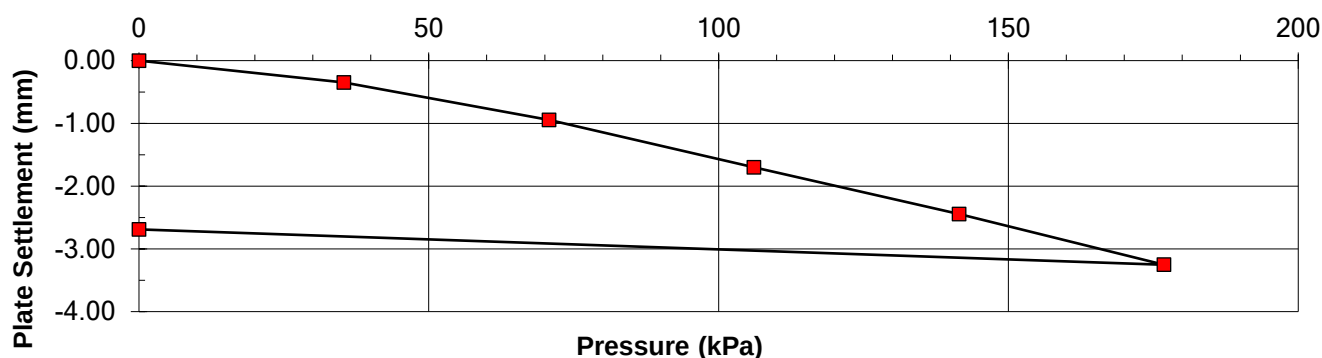
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	26	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4648	4504	4709	4620	0.00	0.00	0.0
4614	4480	4663	4586	-0.35	10.00	35.4
4563	4414	4600	4526	-0.95	20.00	70.7
4498	4334	4519	4450	-1.70	30.00	106.1
4435	4265	4428	4376	-2.44	40.00	141.5
4356	4178	4351	4295	-3.25	50.00	176.8
4401	4224	4429	4351	-2.69	0.00	0.0



Pressure at 1.25 mm deflexion =	85 kPa
Modulus of subgrade reaction (k) =	68 MPa/m
Equivalent 762 mm plate reaction =	55 MPa/m
Equivalent CBR =	9.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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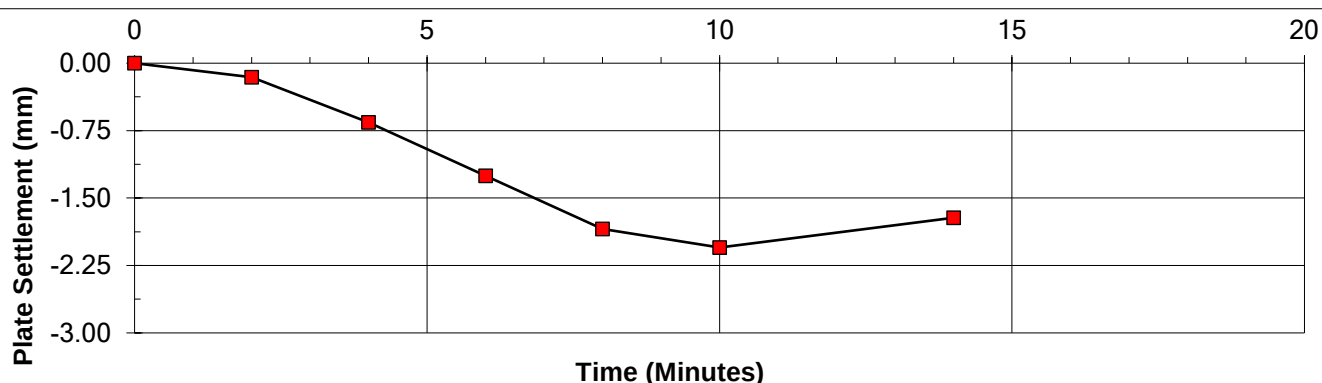
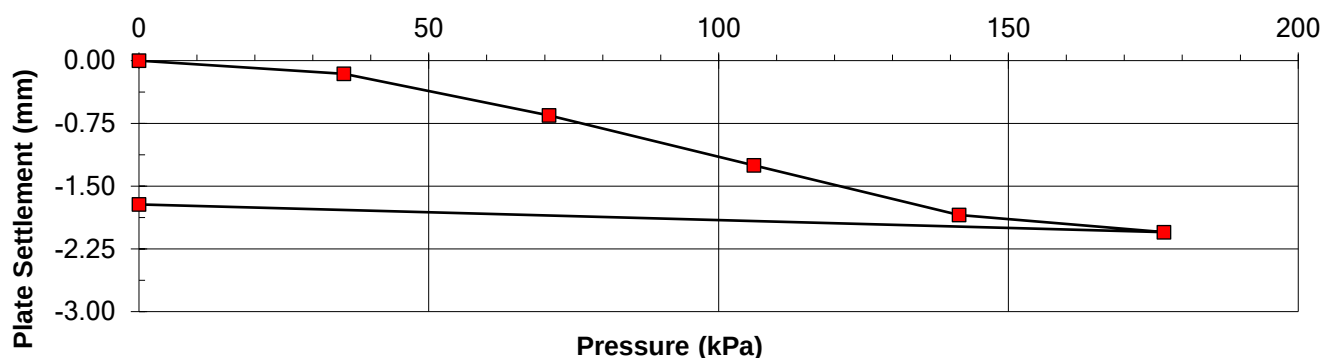
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	27	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4693	4705	4750	4716	0.00	0.00	0.0
4667	4691	4743	4700	-0.16	10.00	35.4
4606	4638	4707	4650	-0.66	20.00	70.7
4544	4573	4655	4591	-1.25	30.00	106.1
4472	4532	4591	4532	-1.84	40.00	141.5
4436	4554	4543	4511	-2.05	50.00	176.8
4553	4474	4605	4544	-1.72	0.00	0.0



Pressure at 1.25 mm deflexion =	106 kPa
Modulus of subgrade reaction (k) =	85 MPa/m
Equivalent 762 mm plate reaction =	68 MPa/m
Equivalent CBR =	14.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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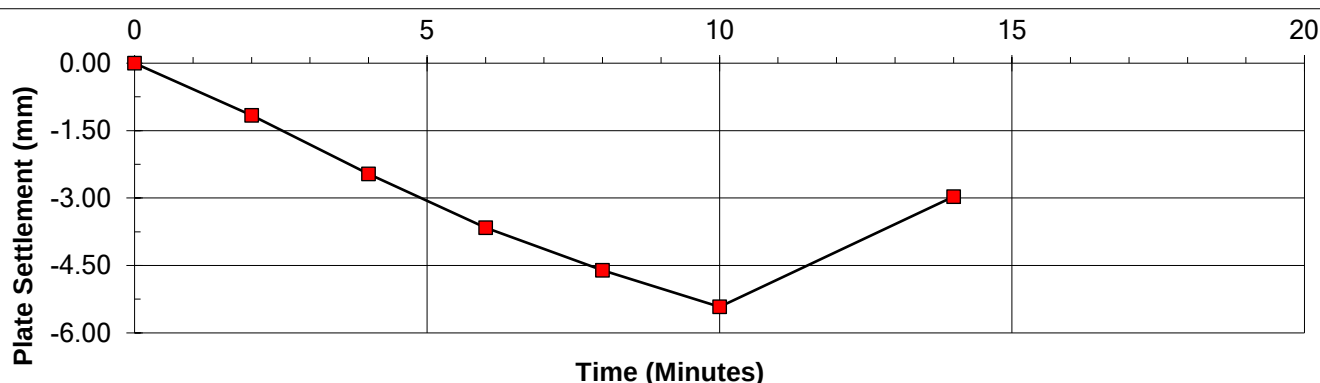
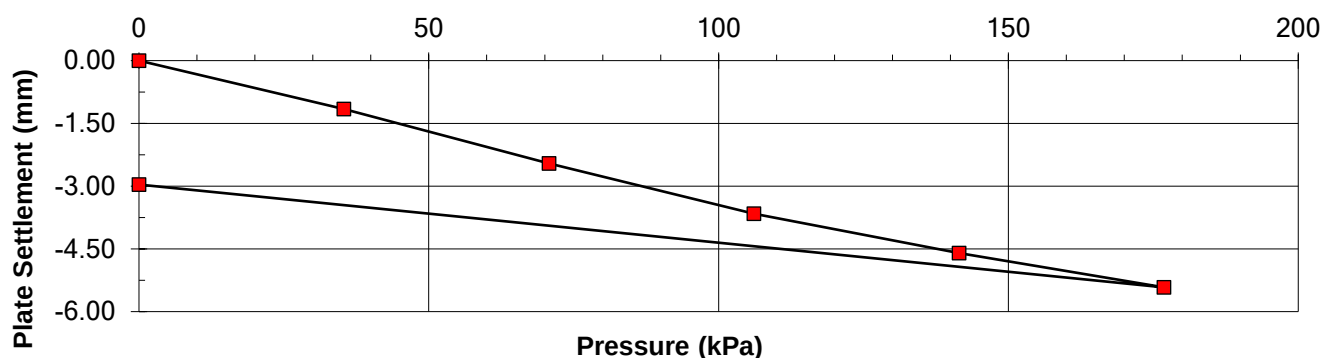
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	28	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4556	4360	4222	4379	0.00	0.00	0.0
4509	4239	4042	4263	-1.16	10.00	35.4
4452	4000	3948	4133	-2.46	20.00	70.7
4386	3911	3744	4014	-3.66	30.00	106.1
4302	3814	3641	3919	-4.60	40.00	141.5
4249	3754	3509	3837	-5.42	50.00	176.8
4496	4004	3748	4083	-2.97	0.00	0.0



Pressure at 1.25 mm deflexion =	38 kPa
Modulus of subgrade reaction (k) =	30 MPa/m
Equivalent 762 mm plate reaction =	24 MPa/m
Equivalent CBR =	2.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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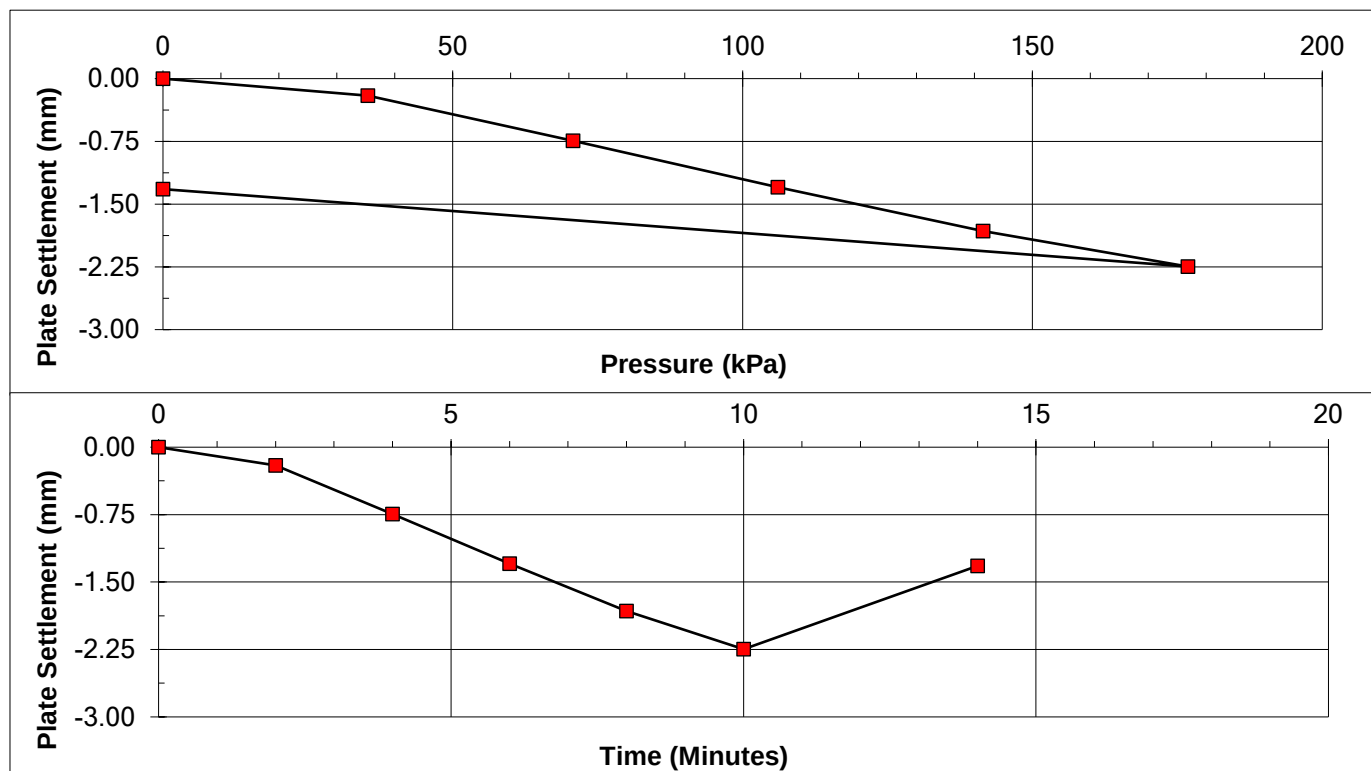
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	29	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4689	4725	4660	4691	0.00	0.00	0.0
4667	4712	4634	4671	-0.20	10.00	35.4
4608	4654	4589	4617	-0.74	20.00	70.7
4554	4597	4534	4562	-1.30	30.00	106.1
4497	4546	4484	4509	-1.82	40.00	141.5
4441	4509	4450	4467	-2.25	50.00	176.8
4558	4609	4511	4559	-1.32	0.00	0.0



Pressure at 1.25 mm deflexion =	103 kPa
Modulus of subgrade reaction (k) =	82 MPa/m
Equivalent 762 mm plate reaction =	66 MPa/m
Equivalent CBR =	13.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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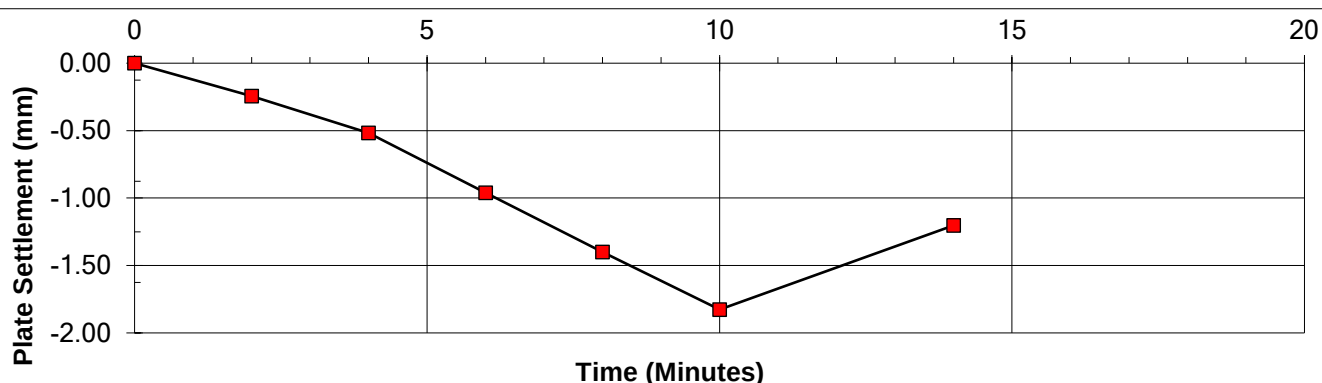
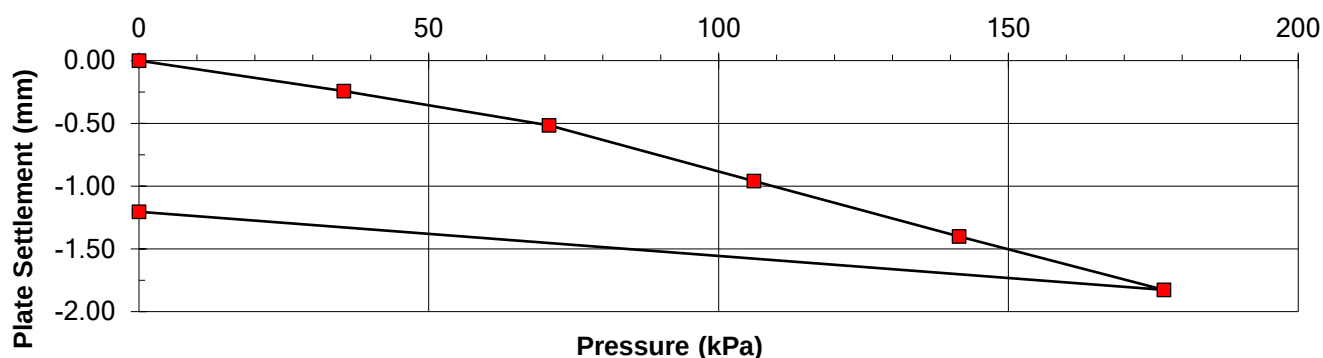
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	30	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4721	4701	4708	4710	0.00	0.00	0.0
4695	4672	4690	4686	-0.24	10.00	35.4
4661	4636	4678	4658	-0.52	20.00	70.7
4621	4586	4635	4614	-0.96	30.00	106.1
4568	4544	4598	4570	-1.40	40.00	141.5
4527	4502	4553	4527	-1.83	50.00	176.8
4579	4544	4646	4590	-1.20	0.00	0.0



Pressure at 1.25 mm deflexion =	129 kPa
Modulus of subgrade reaction (k) =	104 MPa/m
Equivalent 762 mm plate reaction =	83 MPa/m
Equivalent CBR =	20.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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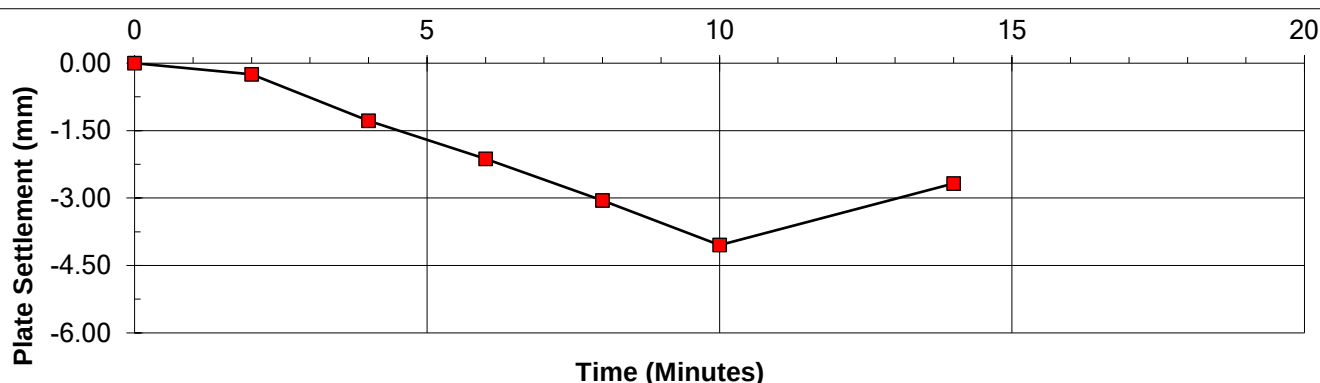
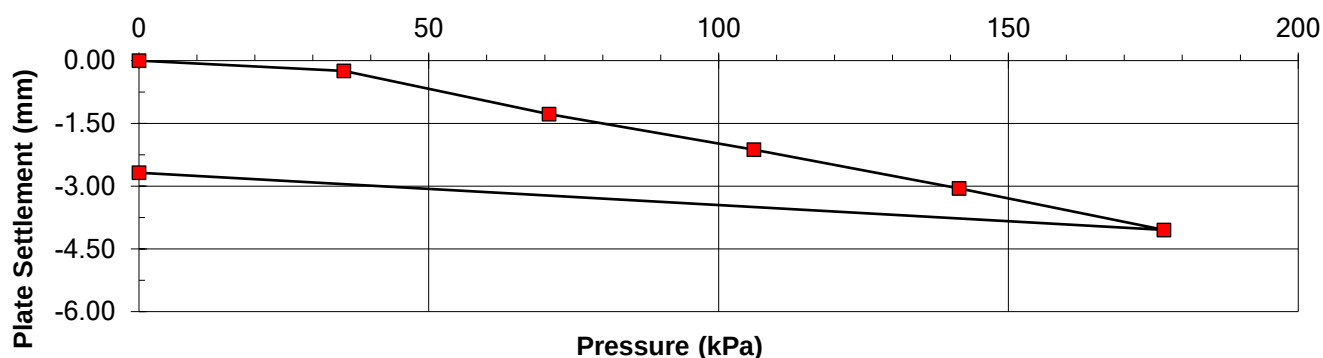
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	31	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4619	4701	4685	4668	0.00	0.00	0.0
4577	4678	4675	4643	-0.25	10.00	35.4
4451	4579	4590	4540	-1.28	20.00	70.7
4364	4502	4500	4455	-2.13	30.00	106.1
4248	4419	4422	4363	-3.05	40.00	141.5
4115	4332	4344	4264	-4.05	50.00	176.8
4365	4432	4405	4401	-2.68	0.00	0.0



Pressure at 1.25 mm deflexion =	70 kPa
Modulus of subgrade reaction (k) =	56 MPa/m
Equivalent 762 mm plate reaction =	45 MPa/m
Equivalent CBR =	7.0 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
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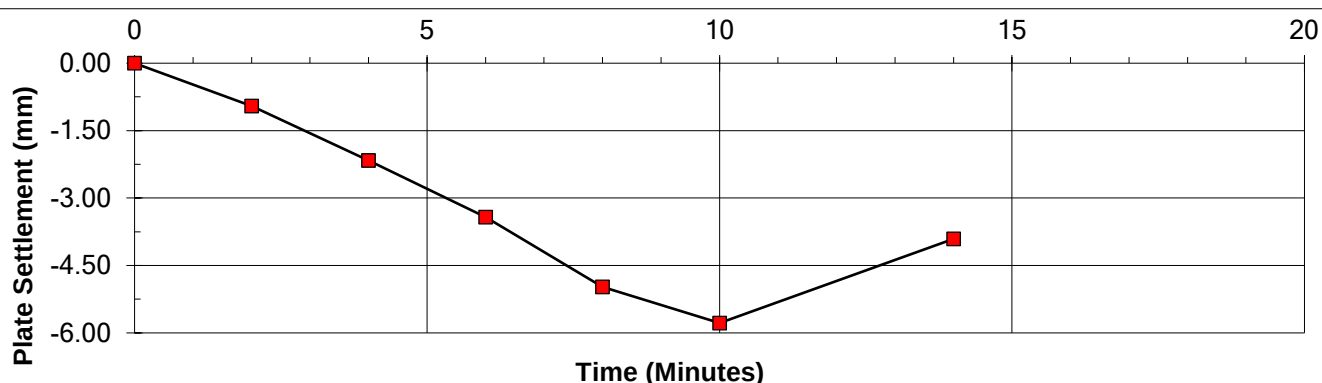
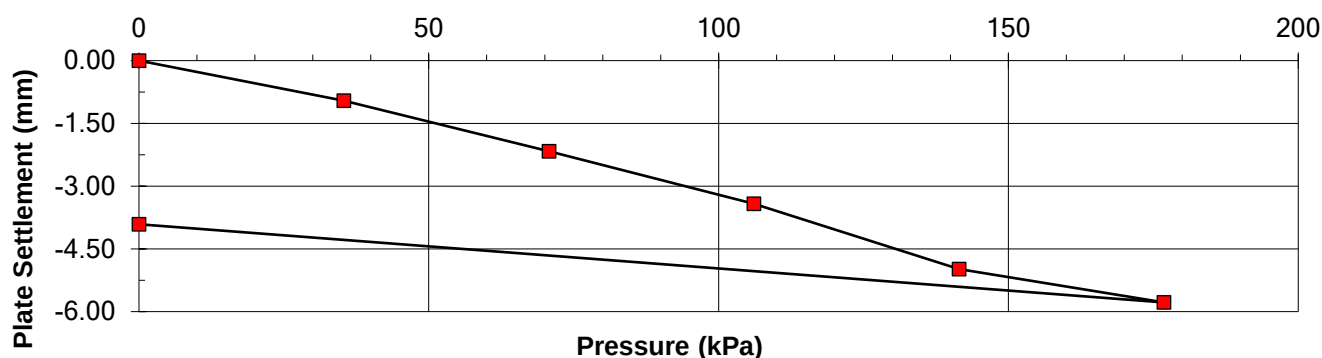
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	32	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4682	4610	4463	4585	0.00	0.00	0.0
4614	4528	4326	4489	-0.96	10.00	35.4
4498	4412	4195	4368	-2.17	20.00	70.7
4370	4283	4075	4243	-3.42	30.00	106.1
4241	4160	3860	4087	-4.98	40.00	141.5
4163	4082	3776	4007	-5.78	50.00	176.8
4360	4220	4002	4194	-3.91	0.00	0.0



Pressure at 1.25 mm deflexion =	44 kPa
Modulus of subgrade reaction (k) =	35 MPa/m
Equivalent 762 mm plate reaction =	28 MPa/m
Equivalent CBR =	3.2 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
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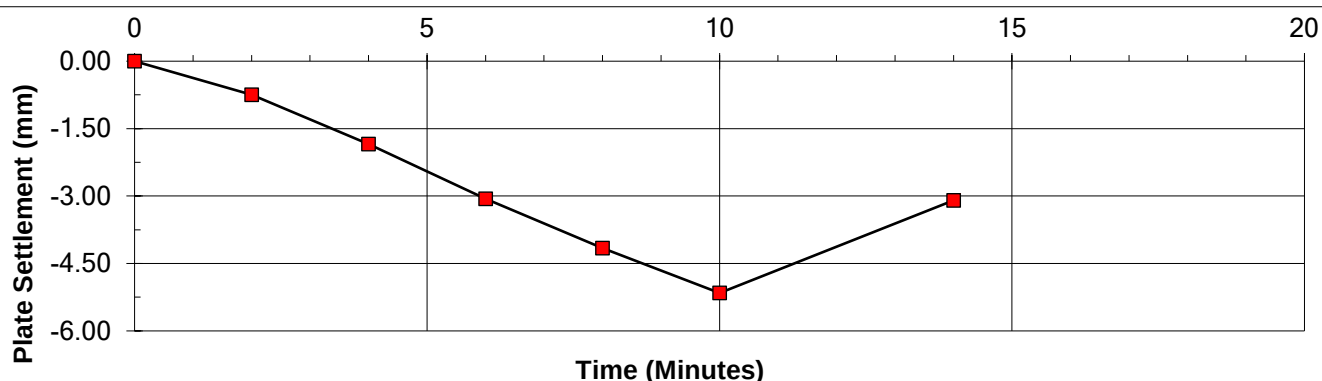
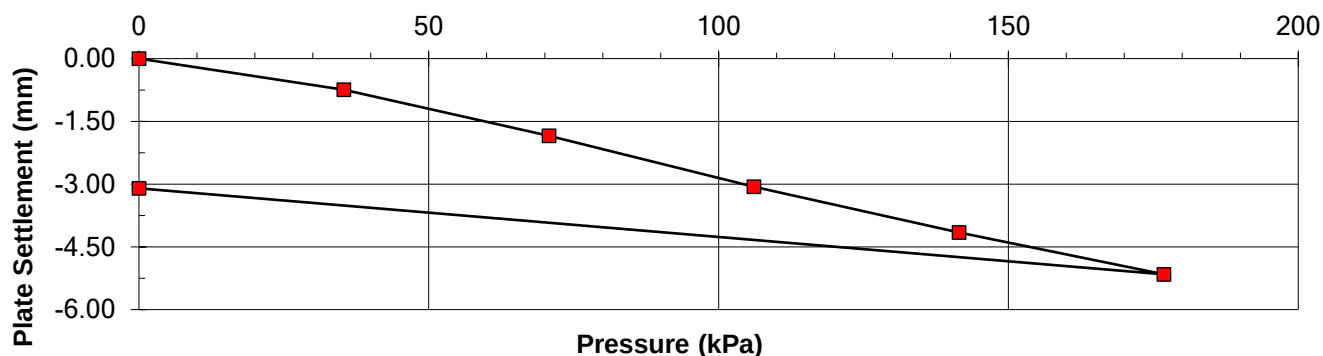
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	33	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4424	4522	4520	4489	0.00	0.00	0.0
4337	4446	4459	4414	-0.75	10.00	35.4
4248	4364	4300	4304	-1.85	20.00	70.7
4039	4279	4230	4183	-3.06	30.00	106.1
3930	4163	4126	4073	-4.16	40.00	141.5
3797	4073	4049	3973	-5.16	50.00	176.8
4002	4281	4253	4179	-3.10	0.00	0.0



Pressure at 1.25 mm deflexion =	52 kPa
Modulus of subgrade reaction (k) =	41 MPa/m
Equivalent 762 mm plate reaction =	33 MPa/m
Equivalent CBR =	4.2 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

MURRAY RIX

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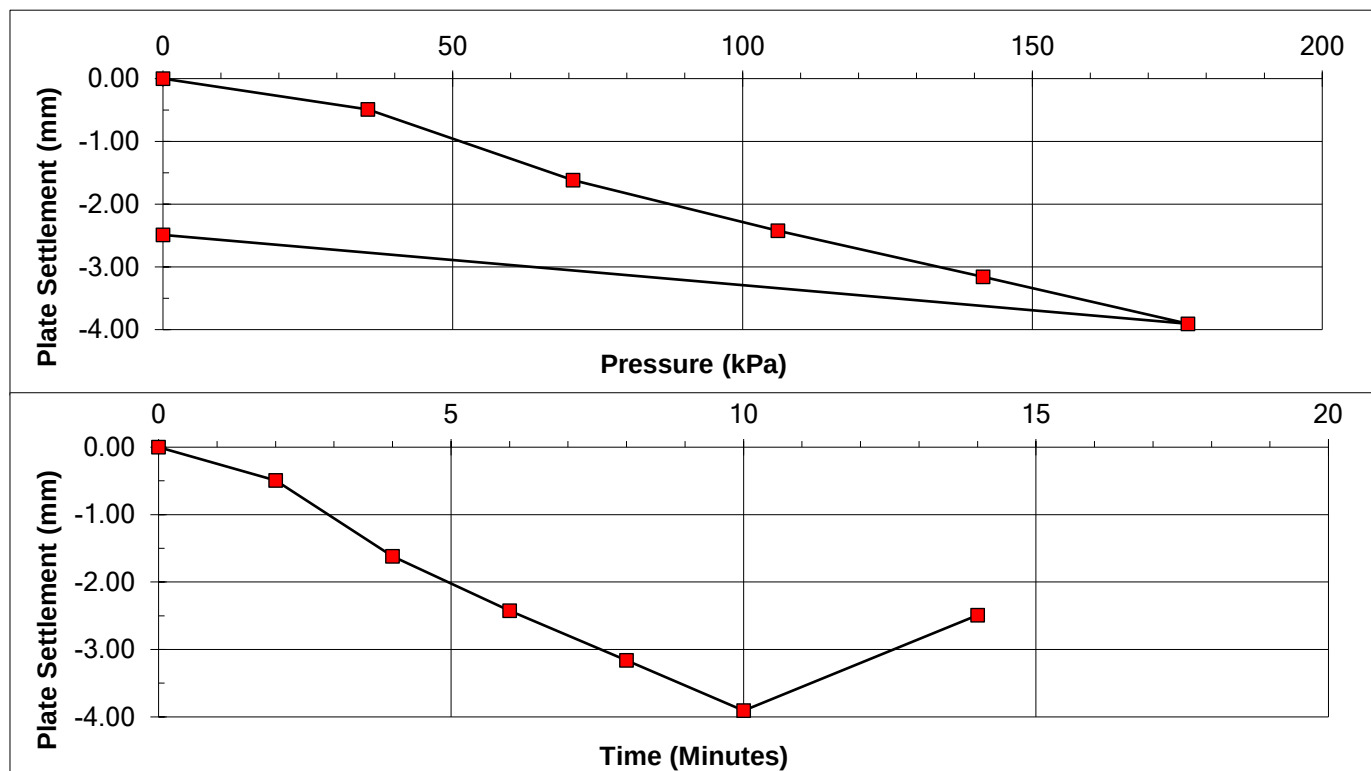
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	34	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4640	4654	4591	4628	0.00	0.00	0.0
4578	4604	4555	4579	-0.49	10.00	35.4
4428	4530	4441	4466	-1.62	20.00	70.7
4386	4458	4314	4386	-2.42	30.00	106.1
4212	4439	4286	4312	-3.16	40.00	141.5
4153	4360	4200	4238	-3.91	50.00	176.8
4335	4486	4317	4379	-2.49	0.00	0.0



Pressure at 1.25 mm deflexion =	59 kPa
Modulus of subgrade reaction (k) =	47 MPa/m
Equivalent 762 mm plate reaction =	38 MPa/m
Equivalent CBR =	5.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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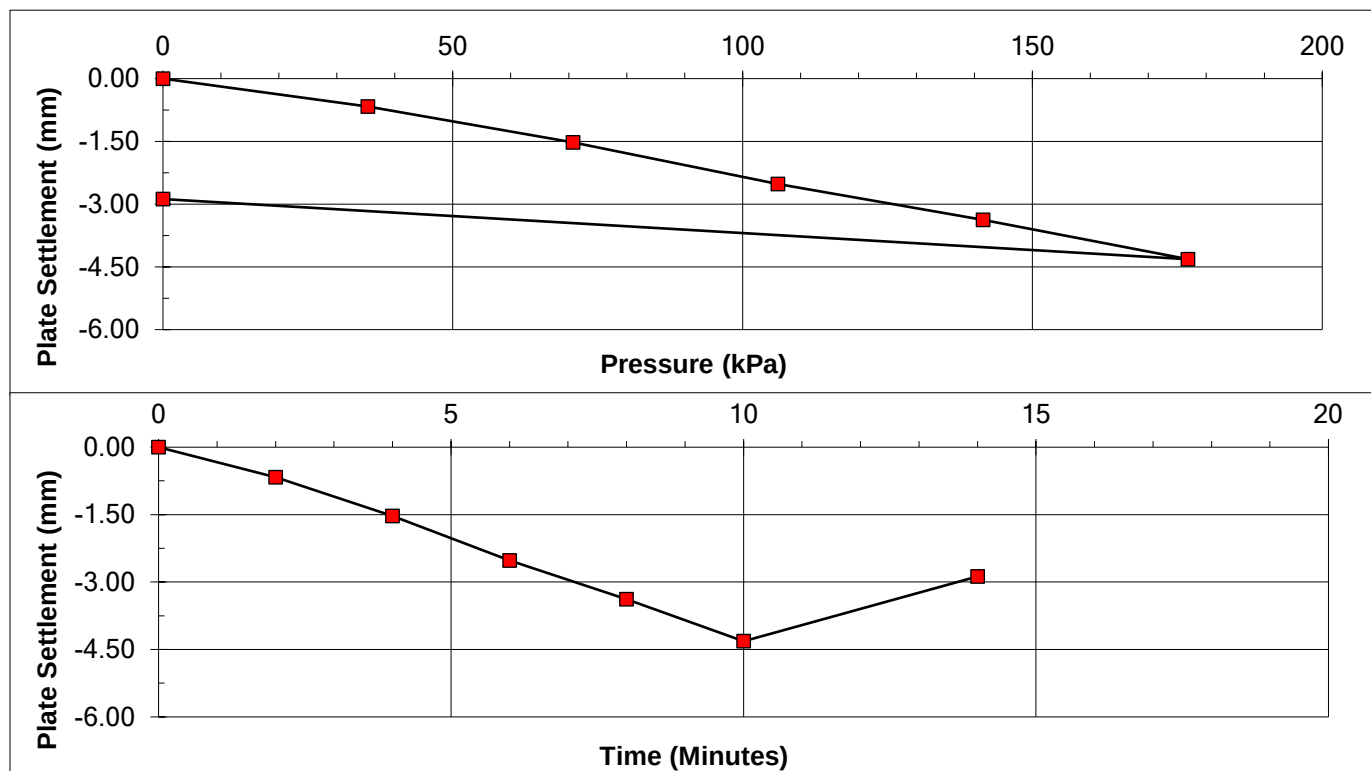
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	35	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4778	4556	4574	4636	0.00	0.00	0.0
4697	4486	4524	4569	-0.67	10.00	35.4
4628	4381	4441	4483	-1.53	20.00	70.7
4526	4278	4348	4384	-2.52	30.00	106.1
4432	4209	4253	4298	-3.38	40.00	141.5
4364	4100	4149	4204	-4.32	50.00	176.8
4431	4291	4323	4348	-2.88	0.00	0.0



Pressure at 1.25 mm deflexion =	59 kPa
Modulus of subgrade reaction (k) =	47 MPa/m
Equivalent 762 mm plate reaction =	38 MPa/m
Equivalent CBR =	5.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

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TEL 0161 475 0870



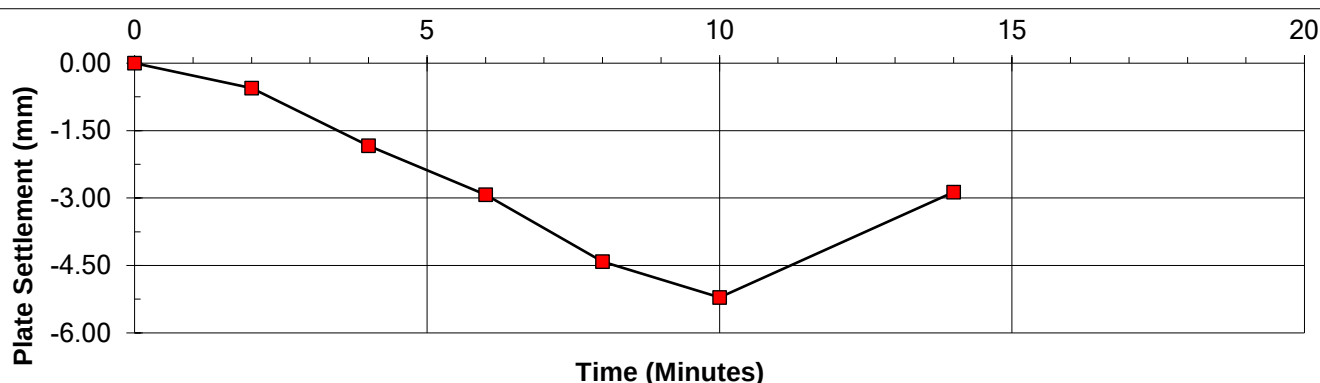
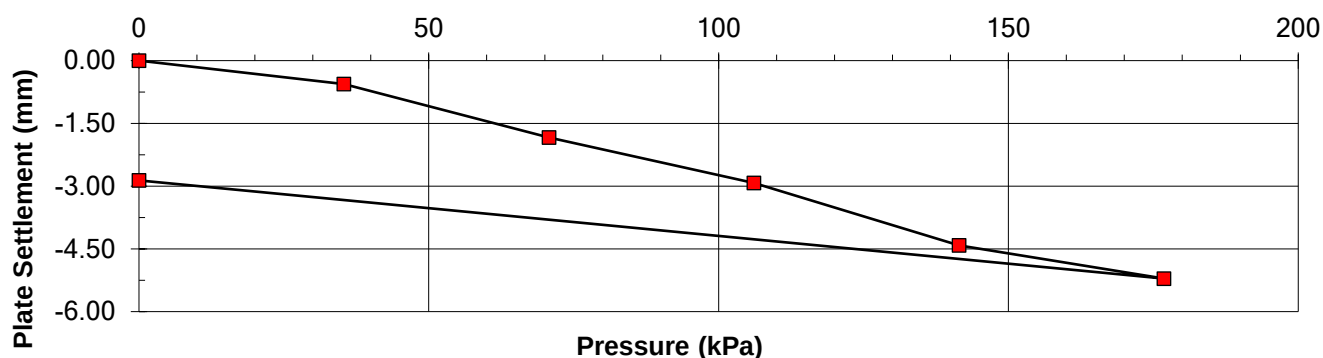
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	36	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4455	4475	4650	4527	0.00	0.00	0.0
4372	4415	4626	4471	-0.56	10.00	35.4
4212	4288	4529	4343	-1.84	20.00	70.7
4133	4110	4459	4234	-2.93	30.00	106.1
3991	3960	4304	4085	-4.42	40.00	141.5
3900	3883	4234	4006	-5.21	50.00	176.8
4199	4068	4453	4240	-2.87	0.00	0.0



Pressure at 1.25 mm deflexion =	55 kPa
Modulus of subgrade reaction (k) =	44 MPa/m
Equivalent 762 mm plate reaction =	35 MPa/m
Equivalent CBR =	4.6 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



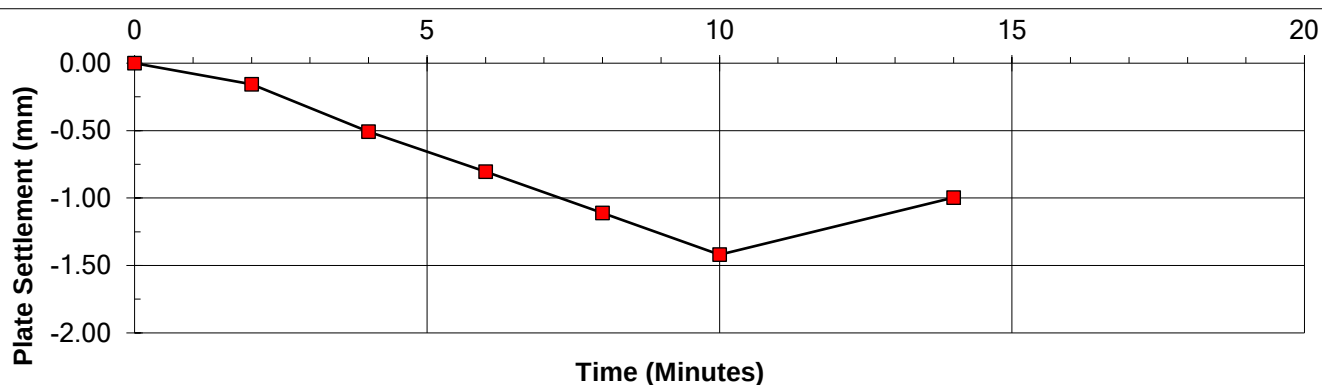
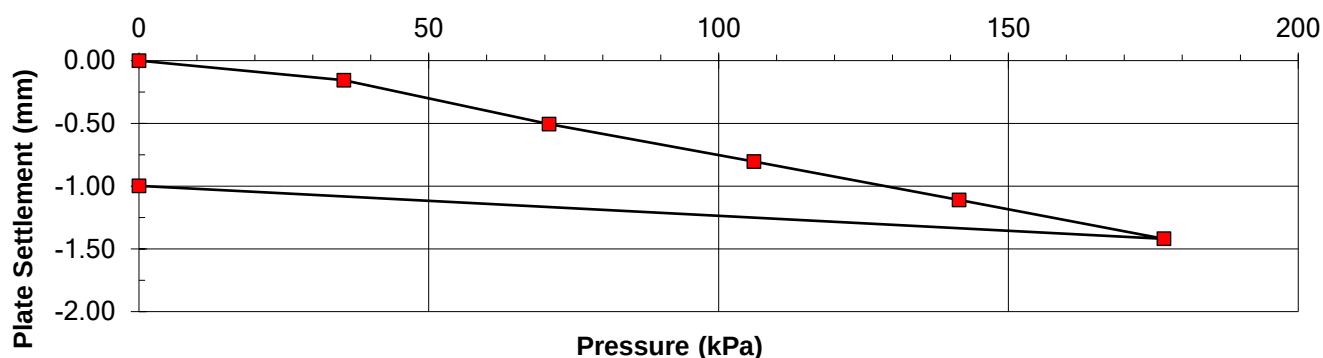
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	37	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4720	4670	4583	4658	0.00	0.00	0.0
4702	4657	4567	4642	-0.16	10.00	35.4
4668	4633	4520	4607	-0.51	20.00	70.7
4645	4614	4473	4577	-0.80	30.00	106.1
4612	4587	4441	4547	-1.11	40.00	141.5
4580	4554	4413	4516	-1.42	50.00	176.8
4640	4598	4436	4558	-1.00	0.00	0.0



Pressure at 1.25 mm deflexion =	157 kPa
Modulus of subgrade reaction (k) =	126 MPa/m
Equivalent 762 mm plate reaction =	101 MPa/m
Equivalent CBR =	28.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



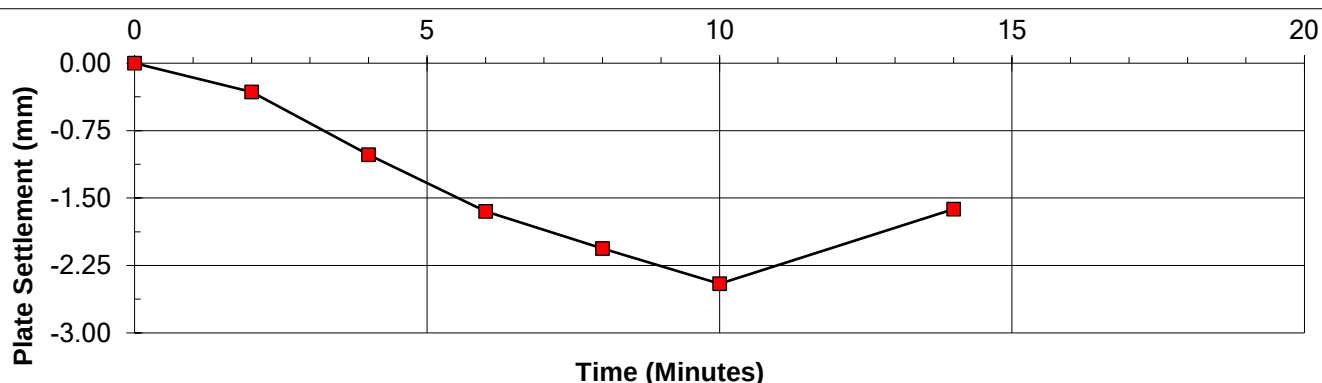
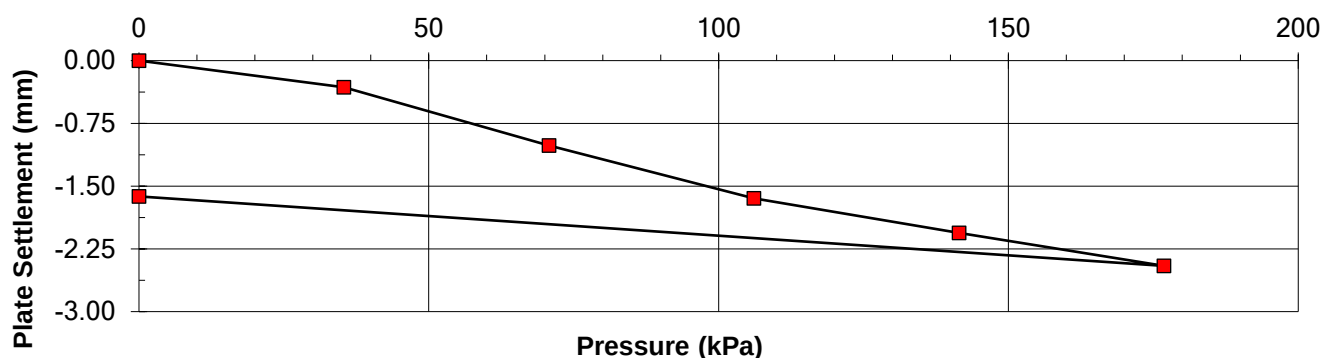
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/6		
TEST LOCATION	28 (Retest)	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	24-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4635	4684	4655	4658	0.00	0.00	0.0
4609	4653	4616	4626	-0.32	10.00	35.4
4527	4553	4589	4556	-1.02	20.00	70.7
4478	4491	4511	4493	-1.65	30.00	106.1
4447	4452	4457	4452	-2.06	40.00	141.5
4414	4406	4418	4413	-2.45	50.00	176.8
4501	4522	4464	4496	-1.62	0.00	0.0



Pressure at 1.25 mm deflexion =	84 kPa
Modulus of subgrade reaction (k) =	67 MPa/m
Equivalent 762 mm plate reaction =	54 MPa/m
Equivalent CBR =	9.7 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 25-Mar-22

TEST REPORT

Client LK Remediate Ltd

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKR 20 1044 -
Collyhurst

Job Number MRN 4297/7
Date of Issue 31 March 2022
Pages 1 of 8

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

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MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
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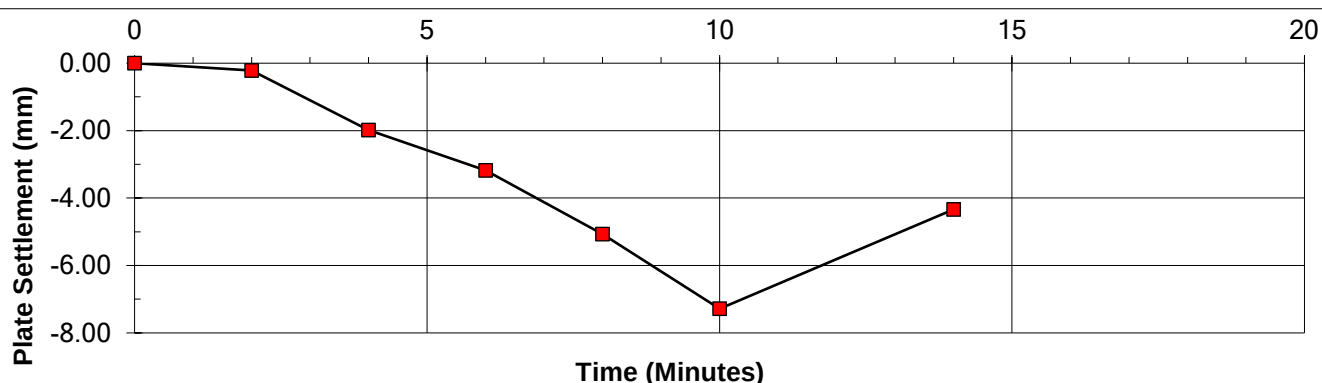
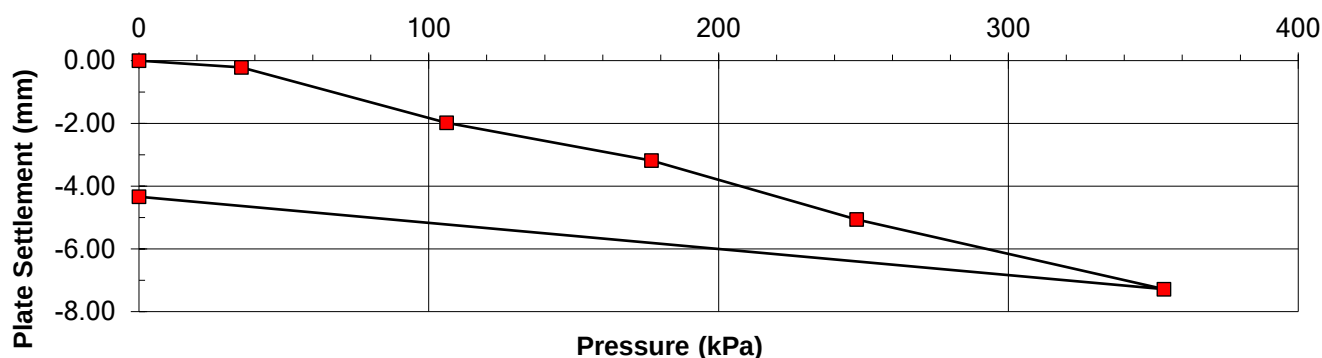
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	38	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4789	4804	4773	4789	0.00	0.00	0.0
4765	4770	4765	4767	-0.22	10.00	35.4
4533	4637	4602	4591	-1.98	30.00	106.1
4443	4452	4516	4470	-3.18	50.00	176.8
4255	4270	4321	4282	-5.07	70.00	247.6
4041	4042	4098	4060	-7.28	100.00	353.7
4370	4361	4334	4355	-4.34	0.00	0.0



Pressure at 1.25 mm deflexion =	77 kPa
Modulus of subgrade reaction (k) =	61 MPa/m
Equivalent 762 mm plate reaction =	49 MPa/m
Equivalent CBR =	8.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

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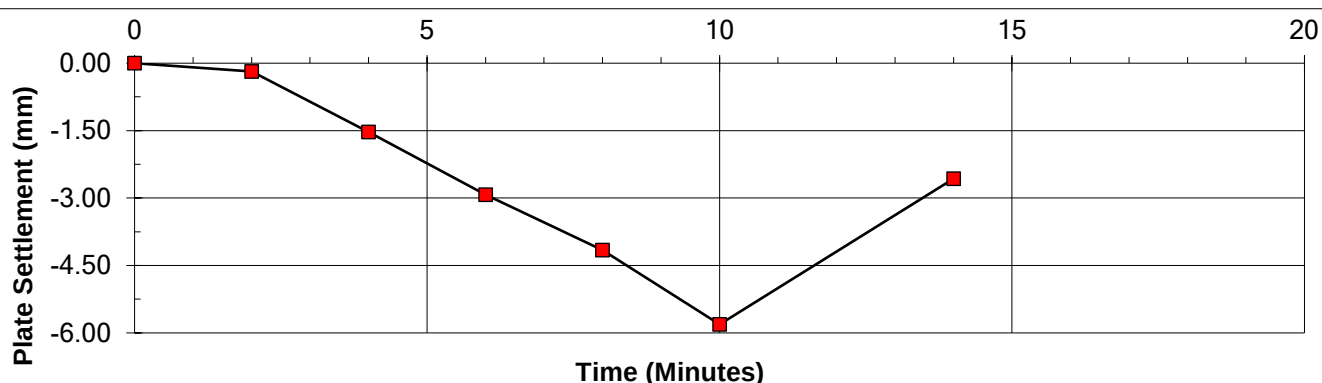
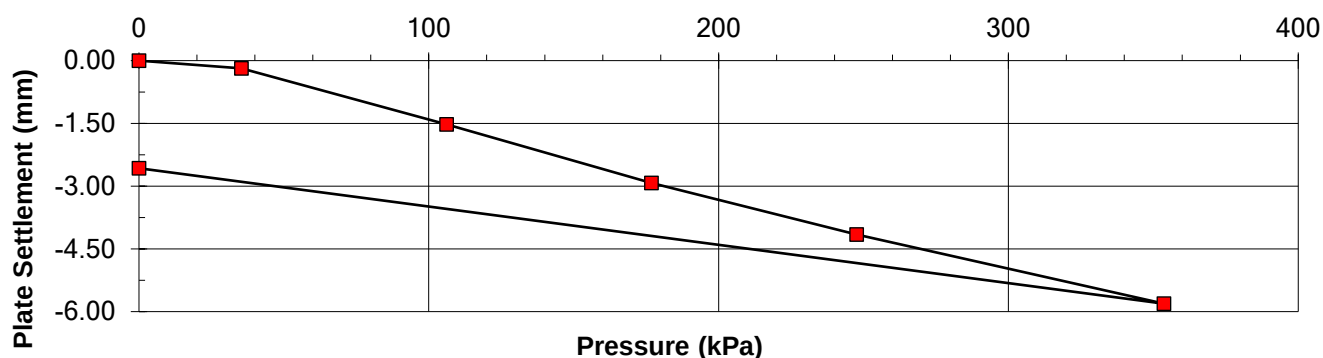
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	39	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4844	4917	4783	4848	0.00	0.00	0.0
4821	4893	4775	4830	-0.18	10.00	35.4
4713	4763	4610	4695	-1.53	30.00	106.1
4501	4647	4518	4555	-2.93	50.00	176.8
4378	4525	4393	4432	-4.16	70.00	247.6
4213	4343	4245	4267	-5.81	100.00	353.7
4550	4644	4579	4591	-2.57	0.00	0.0



Pressure at 1.25 mm deflexion =	92 kPa
Modulus of subgrade reaction (k) =	73 MPa/m
Equivalent 762 mm plate reaction =	59 MPa/m
Equivalent CBR =	11.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

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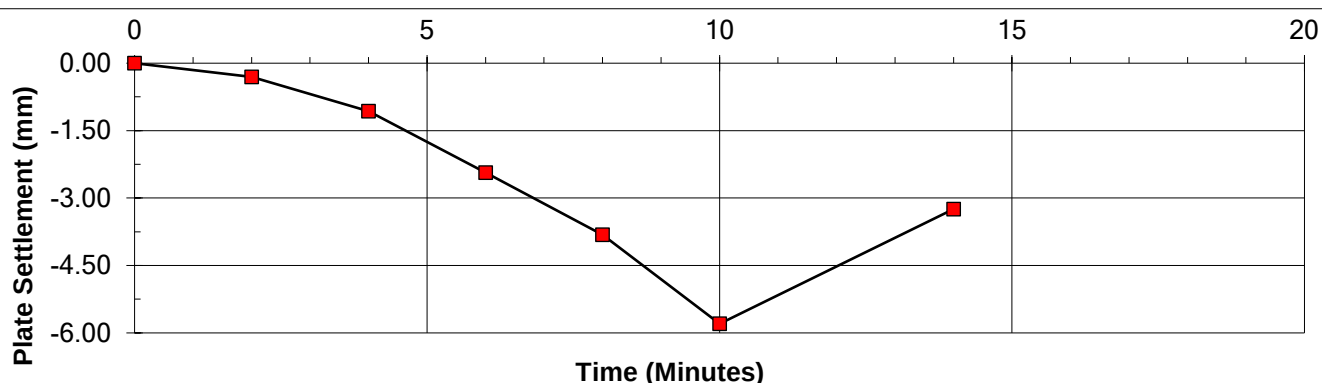
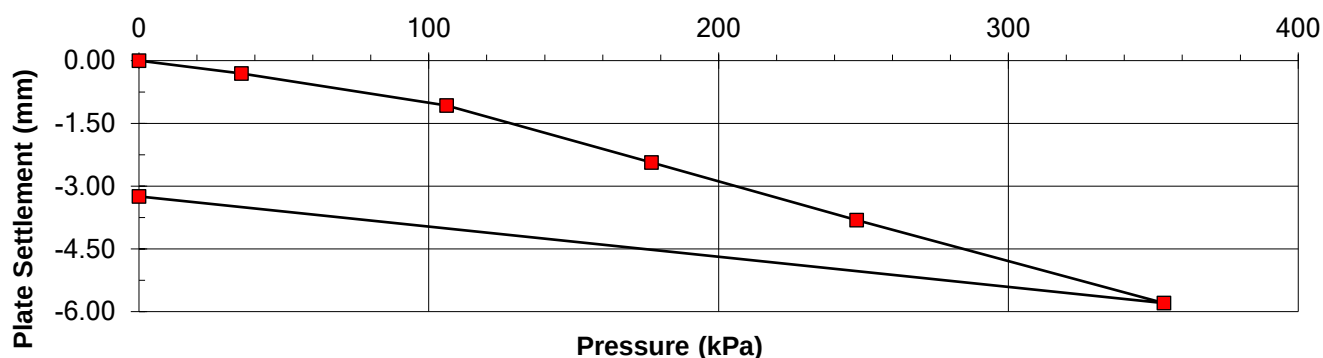
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	40	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4905	4803	4880	4863	0.00	0.00	0.0
4877	4762	4857	4832	-0.31	10.00	35.4
4809	4674	4784	4756	-1.07	30.00	106.1
4680	4528	4650	4619	-2.43	50.00	176.8
4544	4369	4531	4481	-3.81	70.00	247.6
4347	4137	4365	4283	-5.80	100.00	353.7
4591	4433	4590	4538	-3.25	0.00	0.0



Pressure at 1.25 mm deflexion =	115 kPa
Modulus of subgrade reaction (k) =	92 MPa/m
Equivalent 762 mm plate reaction =	74 MPa/m
Equivalent CBR =	16.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

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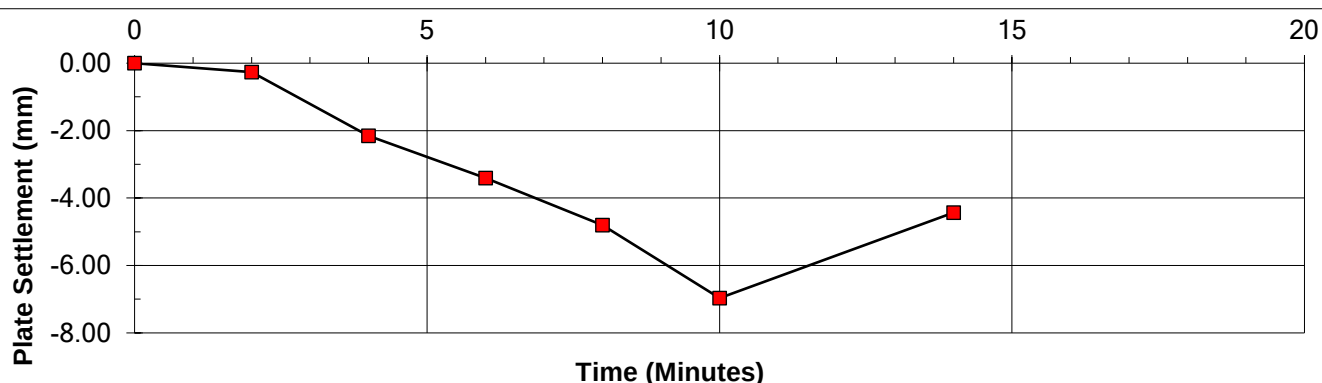
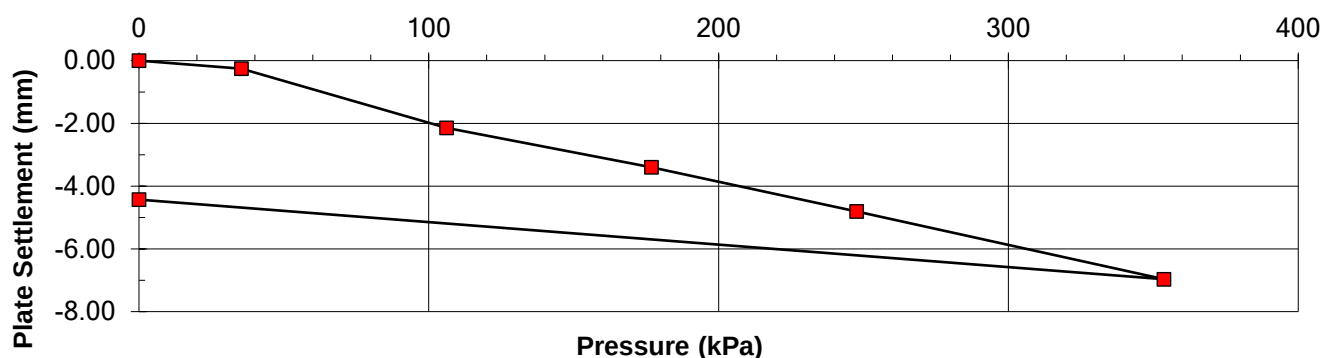
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	41	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4894	4618	4749	4754	0.00	0.00	0.0
4877	4568	4738	4728	-0.26	10.00	35.4
4653	4352	4611	4539	-2.15	30.00	106.1
4536	4202	4502	4413	-3.40	50.00	176.8
4417	4028	4375	4273	-4.80	70.00	247.6
4205	3736	4230	4057	-6.97	100.00	353.7
4481	4024	4426	4310	-4.43	0.00	0.0



Pressure at 1.25 mm deflexion =	72 kPa
Modulus of subgrade reaction (k) =	58 MPa/m
Equivalent 762 mm plate reaction =	47 MPa/m
Equivalent CBR =	7.5 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

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TEL 0161 475 0870



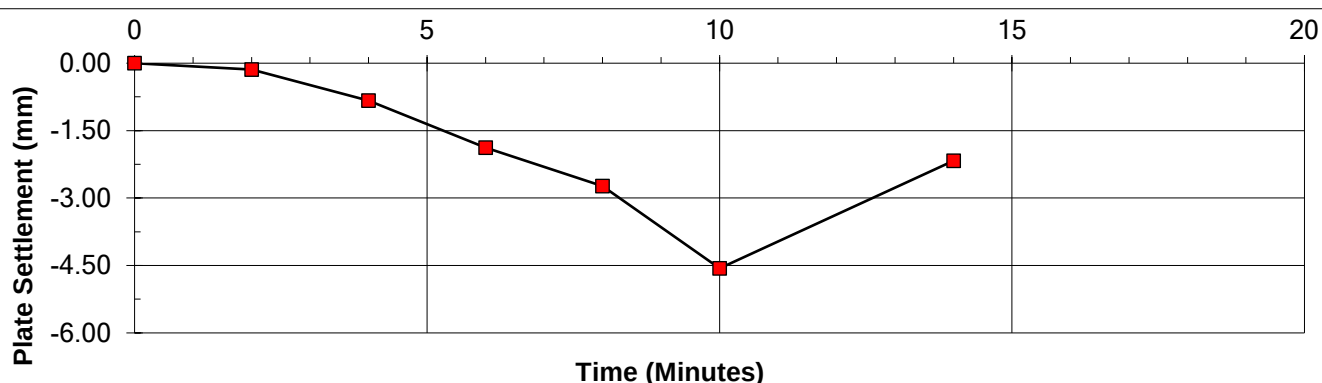
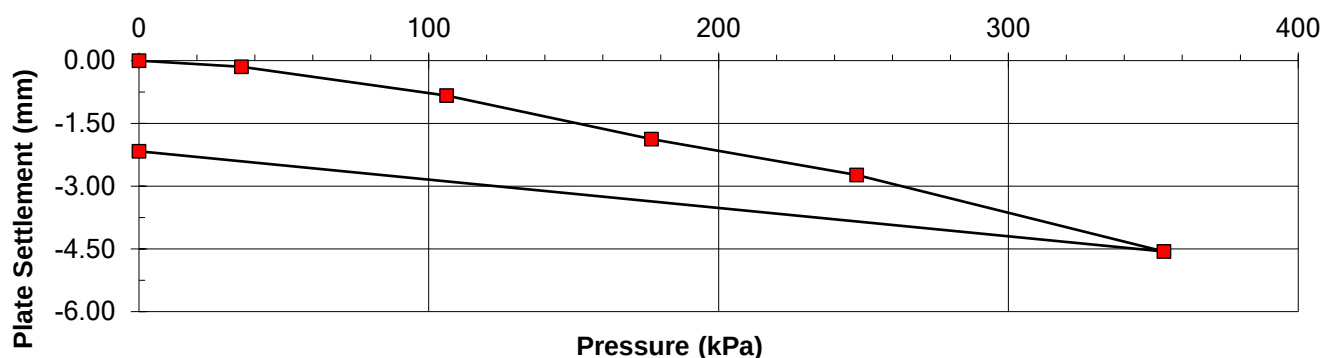
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	42	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4663	4587	4873	4708	0.00	0.00	0.0
4654	4560	4866	4693	-0.14	10.00	35.4
4605	4453	4815	4624	-0.83	30.00	106.1
4529	4312	4718	4520	-1.88	50.00	176.8
4464	4196	4642	4434	-2.74	70.00	247.6
4315	3954	4485	4251	-4.56	100.00	353.7
4552	4291	4629	4491	-2.17	0.00	0.0



Pressure at 1.25 mm deflexion =	134 kPa
Modulus of subgrade reaction (k) =	107 MPa/m
Equivalent 762 mm plate reaction =	86 MPa/m
Equivalent CBR =	21.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

MURRAY RIX

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TEL 0161 475 0870



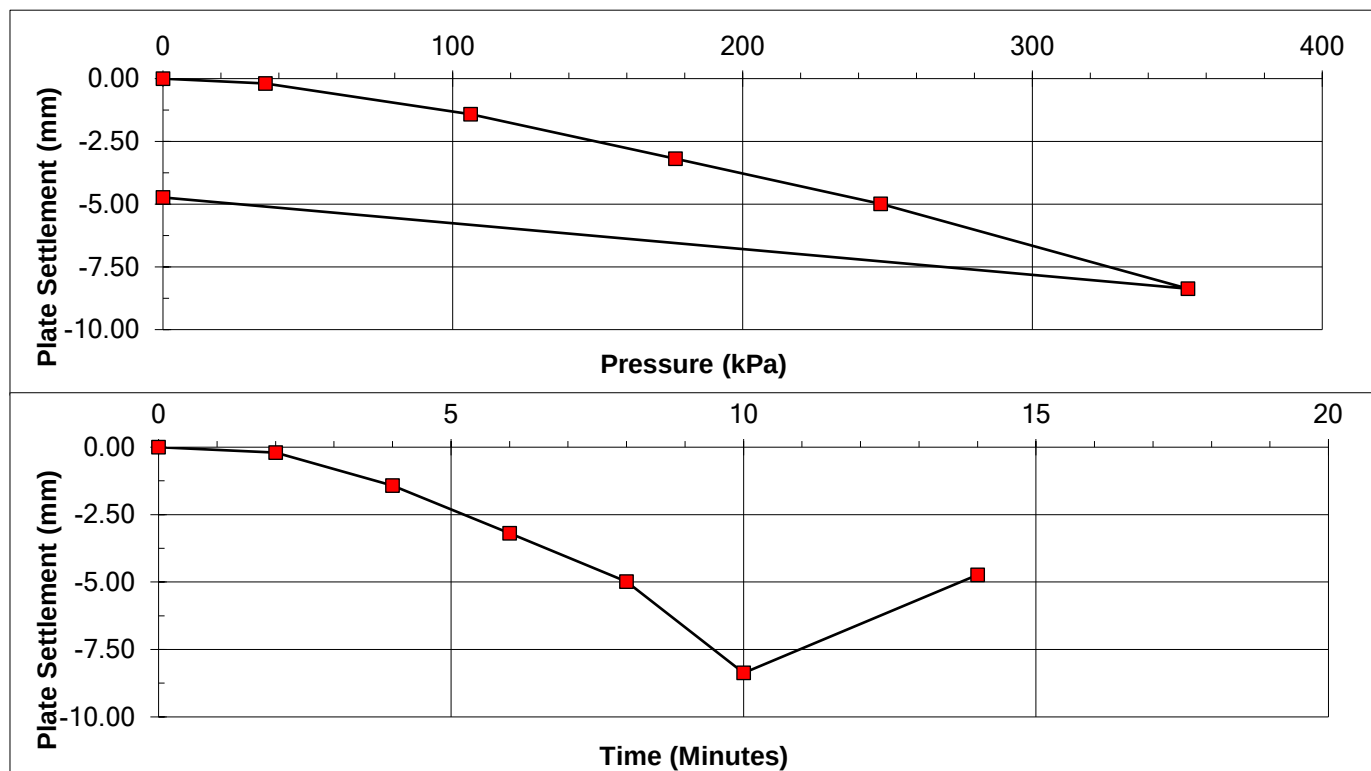
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	43	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4959	4851	4927	4912	0.00	0.00	0.0
4933	4836	4908	4892	-0.20	10.00	35.4
4829	4710	4772	4770	-1.42	30.00	106.1
4669	4528	4584	4594	-3.19	50.00	176.8
4487	4344	4410	4414	-4.99	70.00	247.6
4138	4002	4086	4075	-8.37	100.00	353.7
4462	4457	4399	4439	-4.73	0.00	0.0



Pressure at 1.25 mm deflexion =	96 kPa
Modulus of subgrade reaction (k) =	77 MPa/m
Equivalent 762 mm plate reaction =	62 MPa/m
Equivalent CBR =	12.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



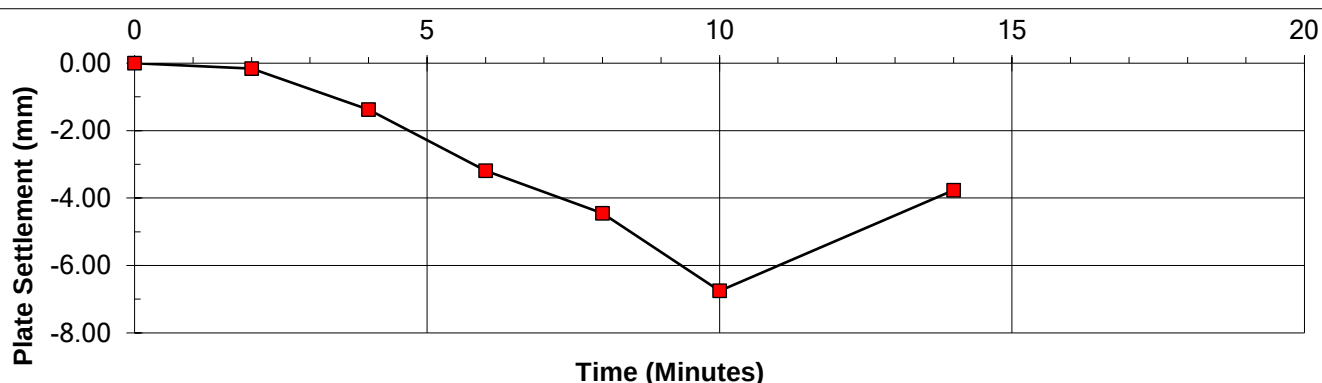
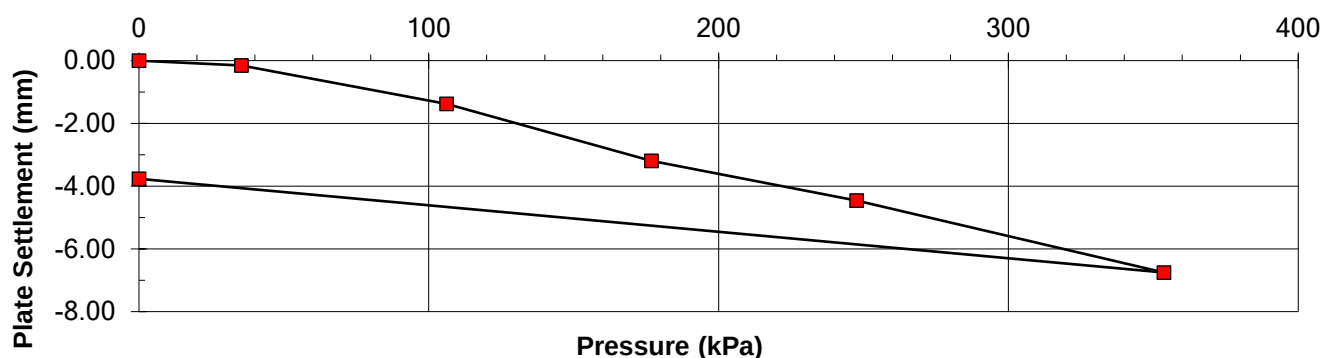
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	LK Remediate Ltd		
SITE	LKR 20 1044 - Collyhurst		
JOB NUMBER	MRN 4297/7		
TEST LOCATION	44	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	30-Mar-22	PLATE SIZE (mm)	600 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
4662	4822	4787	4757	0.00	0.00	0.0
4647	4798	4779	4741	-0.16	10.00	35.4
4589	4652	4616	4619	-1.38	30.00	106.1
4408	4463	4442	4438	-3.19	50.00	176.8
4259	4393	4282	4311	-4.46	70.00	247.6
4038	4140	4067	4082	-6.75	100.00	353.7
4332	4489	4319	4380	-3.77	0.00	0.0



Pressure at 1.25 mm deflexion =	99 kPa
Modulus of subgrade reaction (k) =	79 MPa/m
Equivalent 762 mm plate reaction =	63 MPa/m
Equivalent CBR =	12.8 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 31-Mar-22

Appendix 10 : Material Tracking Sheets



HANDOVER DETAILS

This As-Built Survey represents a Phased Site Handover Document. It relinquishes (to the client) an area or areas of the site where LKR Remediate Limited's works have been completed in accordance with the contract. The survey information must be checked by the client to confirm they are in agreement that areas have been placed to level within agreed tolerances. For clarity, the area/s being relinquished is/are bounded by a thick green line.

As per LKR Remediate Limited terms and conditions of the contract, acceptance (by the client) of the areas shown is required by either a returned signed copy of this document (preferred) or an email confirming that checks have been made and that the client is in agreement that all necessary work has been carried out to a satisfactory standard. A lack of response by the client within two working days will be taken as agreement that all necessary work has been carried out to a satisfactory standard.

Acceptance of this Phased Site Handover Document, by the client, is confirmation that LKR Remediate Limited are not liable for any further remedial works caused by degradation only adverse weather/ground conditions or any third party activities in these areas.



LKR Remediate
Eton Hill Road
Radcliffe
M26 2ZS

T: 0161 7367200
www.thelkgroup.com

CLIENT

FEC

JOB TITLE

LKR201044
COLLYHURST

DRAWING TITLE

MMP Vegetation Removal

STATUS

RO

DRAWN BY
DM

SIGNATURE

DATE
13/04/22

APPROVED
RC

SIGNATURE

DATE
13/04/22

SCALE
NTS

DRG NO.
201044_MMP_01

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HANDOVER DETAILS

This As-Built Survey represents a Phased Site Handover Document. It relinquishes (to the client) an area or areas of the site where LKR Remediate Limited's works have been completed in accordance with the contract. The survey information must be checked by the client to confirm they are in agreement that areas have been placed to level within agreed tolerances. For clarity, the area/s being relinquished is/are bounded by a thick green line.

As per LKR Remediate Limited terms and conditions of the contract, acceptance (by the client) of the areas shown is required by either a returned signed copy of this document (preferred) or an email confirming that checks have been made and that the client is in agreement that all necessary work has been carried out to a satisfactory standard. A lack of response by the client within two working days will be taken as agreement that all necessary work has been carried out to a satisfactory standard.

Acceptance of this Phased Site Handover Document, by the client, is confirmation that LKR Remediate Limited are not liable for any further remedial works caused by degradation only adverse weather/ground conditions or any third party activities in these areas.



LK Remediate
Eton Hill Road
Radcliffe
M26 2ZS

T: 0161 7367200
www.thelkgroup.com

CLIENT

FEC

JOB TITLE

LKR201044
COLLYHURST

DRAWING TITLE

MMP Japanese Knotweed Removal

STATUS

RO

DRAWN BY
DM

SIGNATURE

DATE
13/04/22

APPROVED
RC

SIGNATURE

DATE
13/04/22

SCALE
NTS

DRG NO.
201044_MMP_02

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CLIENT

FEC

JOB TITLE

LKR201044
COLLYHURST

DRAWING TITLE

MMP Surplus Material Export

STATUS

RO

DRAWN BY
DM

SIGNATURE

DATE
13/04/22

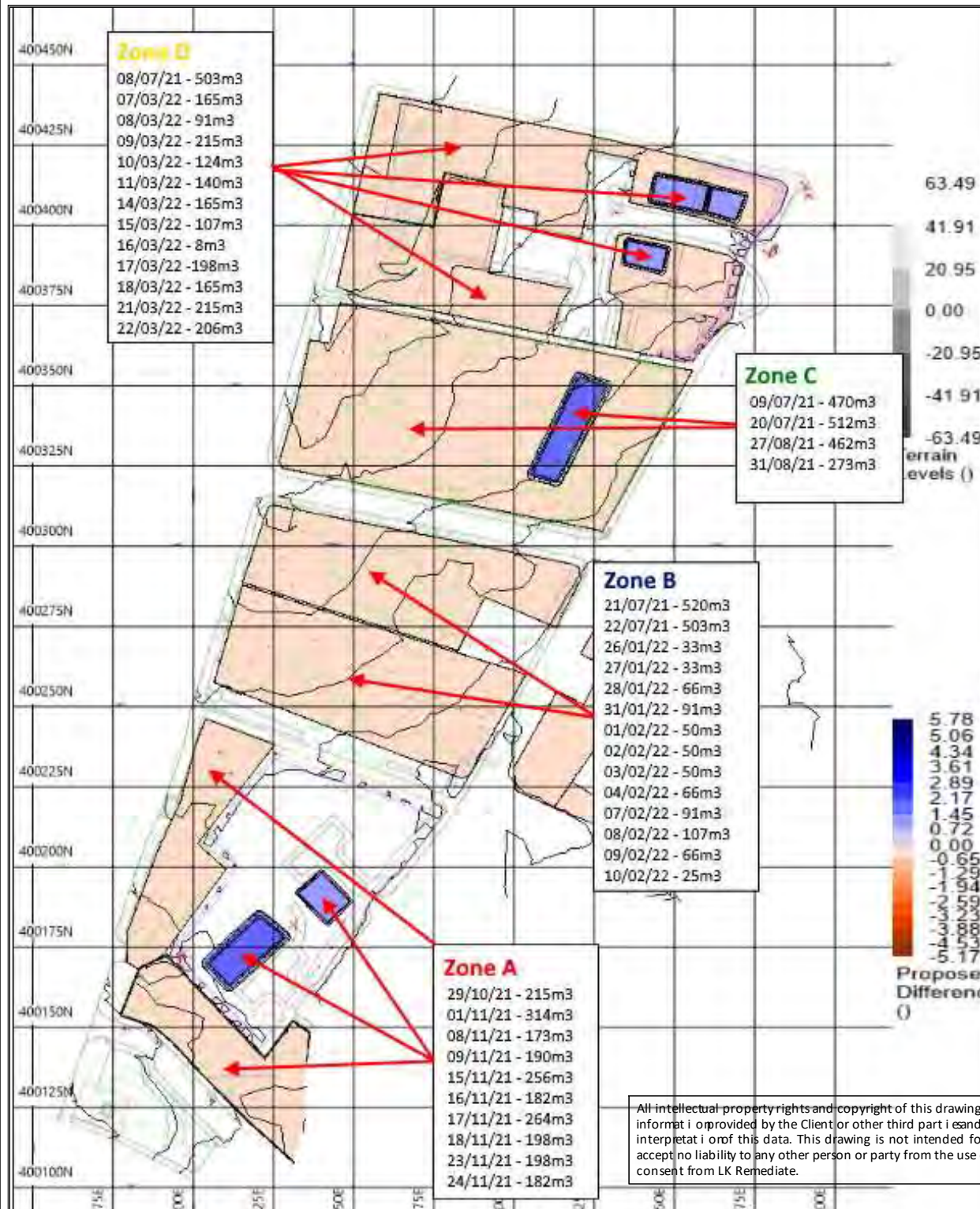
APPROVED
RC

SIGNATURE

DATE
13/04/22

SCALE
NTS

DRG NO.
201044_MMP_03



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CLIENT

FEC

JOB TITLE

LKR201044
COLLYHURST

DRAWING TITLE

MMP Retained Soils

STATUS

RO

DRAWN BY
DM

SIGNATURE

DATE
13/04/22

APPROVED
RC

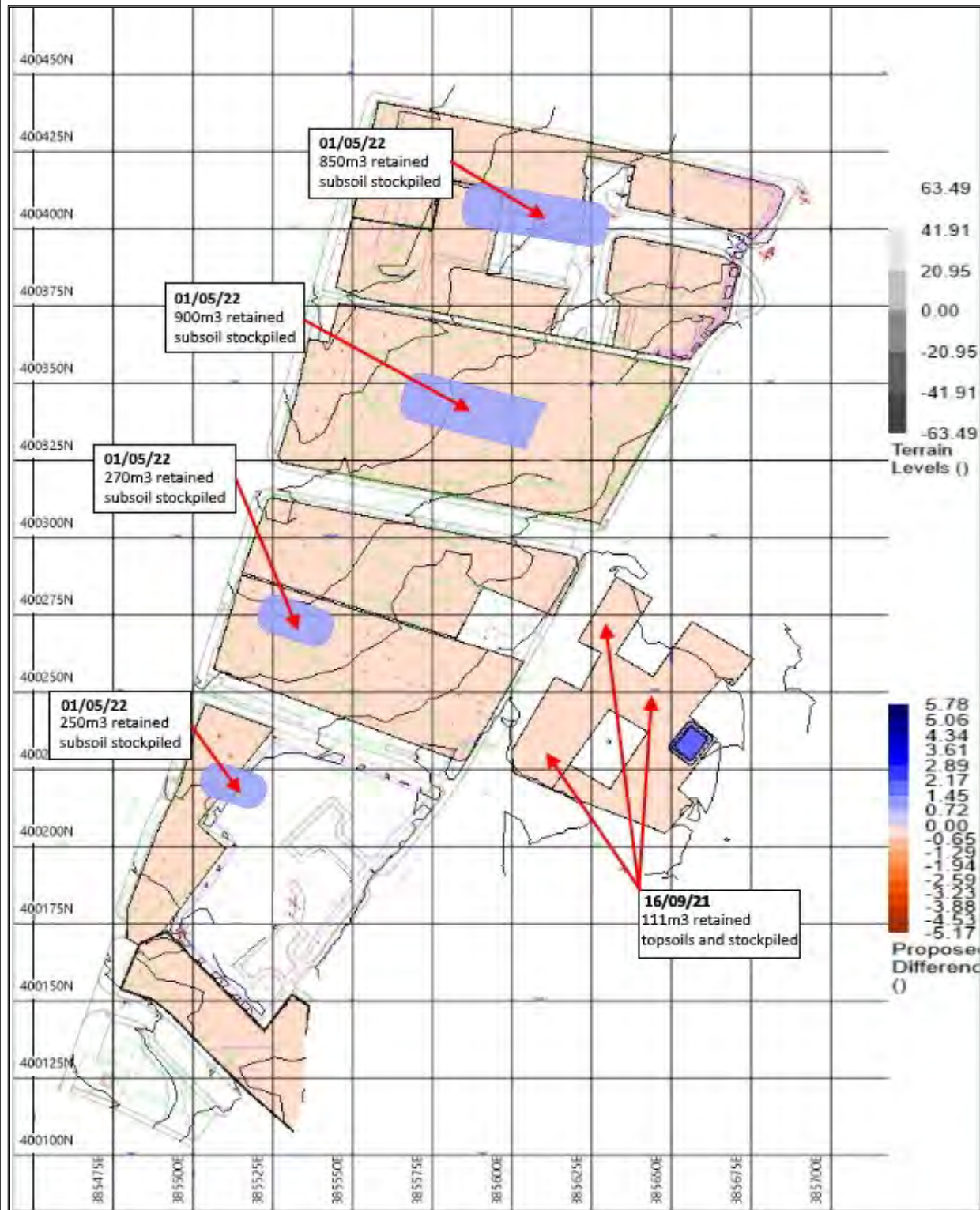
SIGNATURE

DATE
13/04/22

SCALE
NTS

DRG NO.
201044_MMP_04

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As per LKR Remediate Limited terms and conditions of the contract, acceptance (by the client) of the areas shown is required by either a returned signed copy of this document (preferred) or an email confirming that checks have been made and that the client is in agreement that all necessary work has been carried out to a satisfactory standard. A lack of response by the client within two working days will be taken as agreement that all necessary work has been carried out to a satisfactory standard.

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CLIENT

FEC

JOB TITLE

LKR201044
COLLYHURST

DRAWING TITLE

MMP 6F Material Placement

STATUS

RO

DRAWN BY
DM

SIGNATURE

DATE
13/04/22

APPROVED
RC

SIGNATURE

DATE
13/04/22

SCALE
NTS

DRG NO.
201044_MMP_05

22/03/22 to 06/04/22
Circa 380m³ Imported 6F5
utilized in plots, drives and
roads.

63.49
61.85
60.26
58.66
57.07
55.47
53.83
52.19
Terrain
Levels (i)

01/02/22 to 08/02/22
Circa 305m³ Imported 6F5
utilized in plots, drives and
roads.

13/01/22 to 31/01/22
Circa 842m³ Imported 6F5
utilized in plots, drives and
roads.

3.79
1.90
0.00
-1.26
-2.52
Propose
Difference
(i)

12/11/21 to 28/01/22
Circa 1633m³ site generated
6F2 utilized in plots, drives
and roads.

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STOCKPILE VOLUMES 13-09-2021			
String	Volumes		
	Cut/Material	Fill/Void	Balance
1 tested subsoil	0.18	528.92	-528.73
2 tested subsoil	0.22	526.06	-525.85
3 subsoil	0.20	225.26	-225.06
4 subsoil	0.01	188.71	-188.70
5 subsoil	0.21	164.24	-164.03
6 subsoil	0.66	150.42	-149.76
7 topsoil	0.01	172.27	-172.25
8 6F2	0.30	99.83	-99.53
9 to be crushed	8.39	957.38	-948.99
10 subsoil	0.15	243.57	-243.42
11	0.26	129.66	-129.40



Banks Engineering And Management Ltd

Revisions:

--	--	--	--

Rev.	Date	Description	By
------	------	-------------	----

Project:
Collyhurst

Drawing Title:
Aerial Survey 13-09-21

Drawing Ref No:
COL001

Drawn/Surveyed By:
AB

Date:17-09-21

Scale at A1:
1:750

Notes:



Model produced from design FFL DWG supplied by LK Group and Drone Topo Survey conducted by Dronesurvey Ltd 11/08/2021.



Drawing Title LEVEL PROJECTION FROM SURVEY 11/08/2021 TO FORMATION

Additional Comments FOR COMMENT

Drawing Number COLLYHURST-DSV-00-00-MODEL-A-001

Drawn By: BH Checked By: JR

Date: 16/08/2021 Revision: A

SP24 : 333m³

SP29 : 439m³

SP25 : 403m³

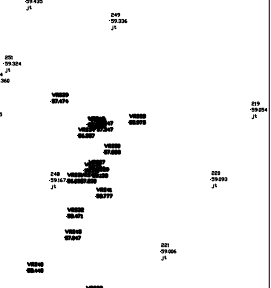
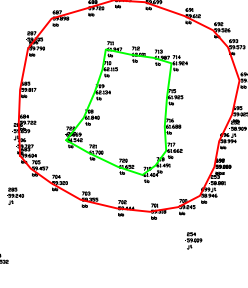
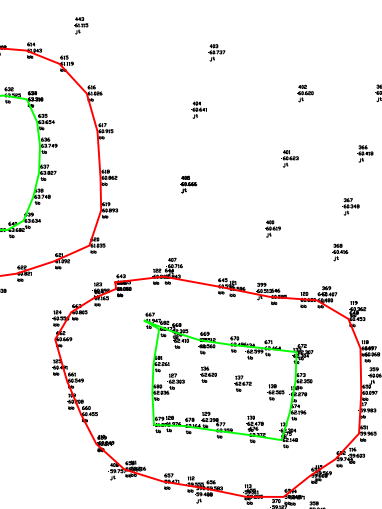
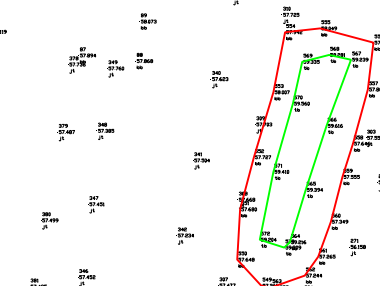
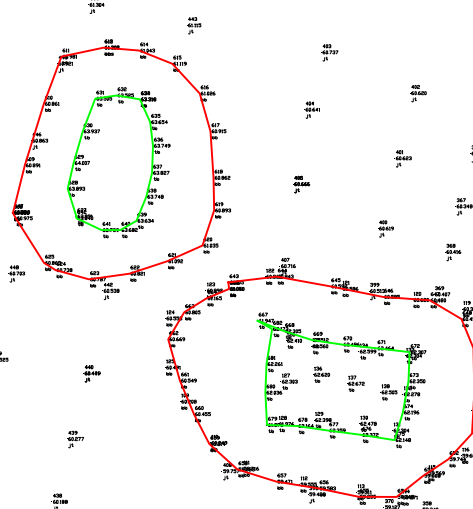
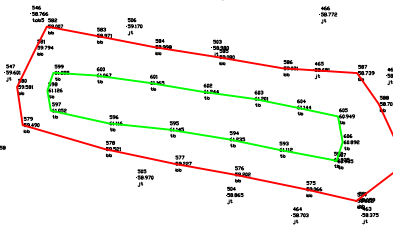
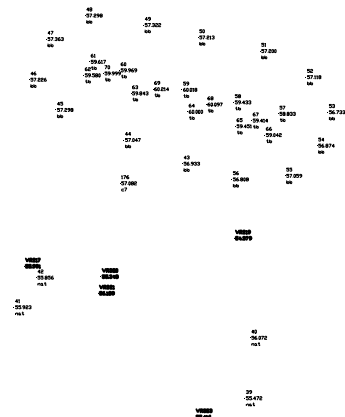
SP30 : 133m³

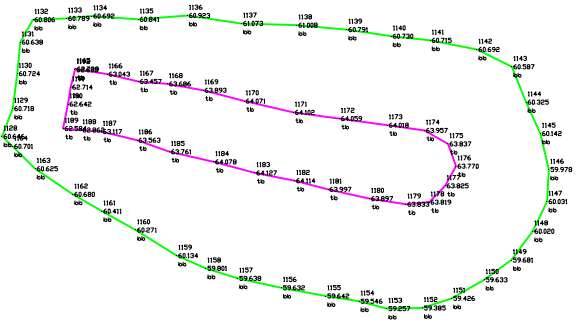
SP28 : 274m³

SP26 : 420m³

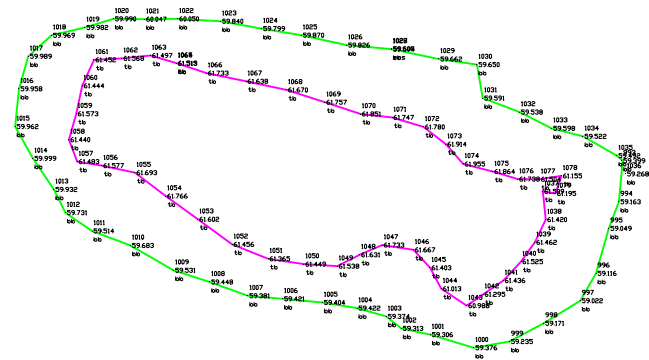
SP23 : 150m³

SP27 : 347m³

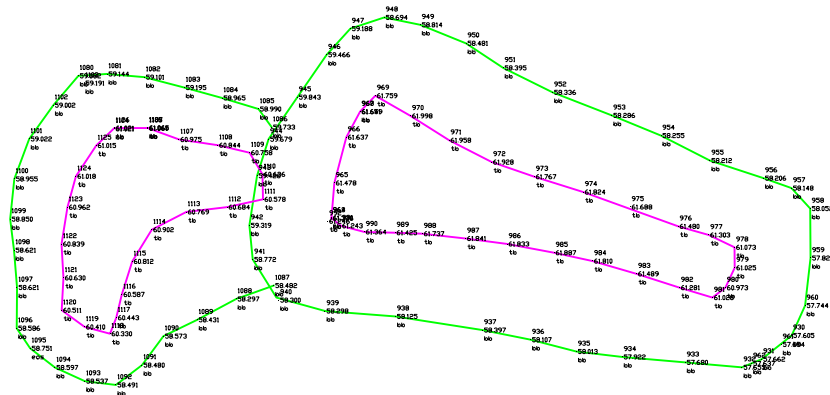




SP34 : 840m3

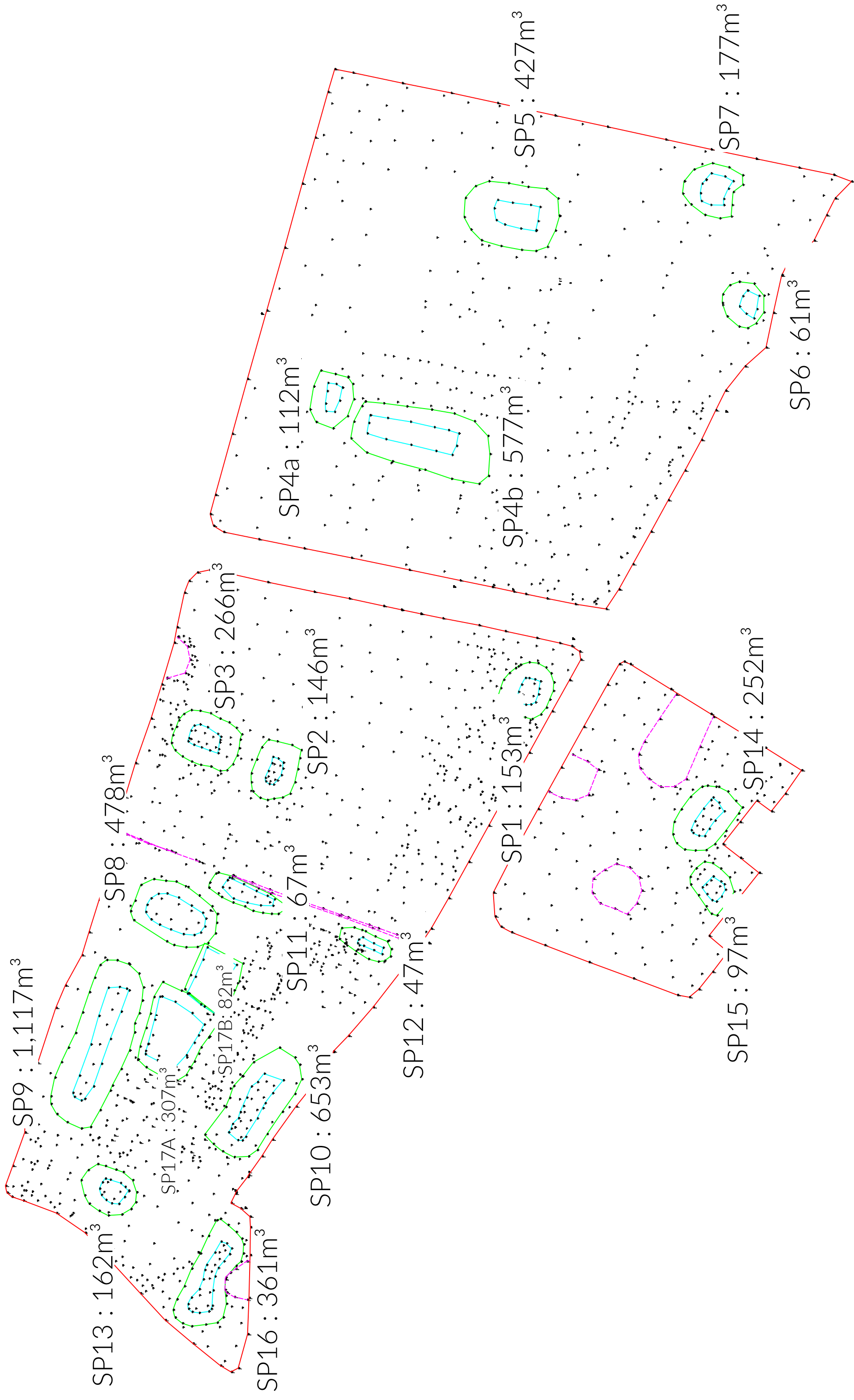


SP32 : 707m3



SP33 : 293m3

SP31 : 894m3



Appendix 11 : Material Export Summary

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
------	---------	-------	----------	------------	-------	-----	--------------

03/06/2021	Maher	MT21 TVO	202557	1			
	Maher	MT21 TVO	202559	1			
	Maher	MT21 TVO	202561	1			
	Maher	MK21 BXP	206926	1			
	Maher	MT21 TVO	202556	1			
	Maher	MT21 TVO	202558	1			
	Maher	MT21 TVO	202560	1			
	Maher	MT21 TVO	202562	1			
	Maher	MK21 BXP	206928	1			
	Maher	MK21 BXP	206930	1			
	Maher	MK21 BXP	206932	1			
	Maher	MK21 BXL	209637	1			
	Maher	MK21 BXP	206927	1			
	Maher	MK21 BXP	206929	1			
	Maher	MK21 BXP	206931	1			
	Maher	MK21 BXL	209636	1			
	Maher	MK21 BXL	206639	1			
	Maher	MK21 BXU	212051	1			
	Maher	MK21 BXU	212196	1			
	Maher	MK21 BXU	212197	1			
	Maher	MK21 BXL	209638	1			
	Maher	MK21 BXL	209640	1			
	Maher	MK21 BXU	212195	1			
	Maher	MK21 BXU	212198	1			
	Maher	MK21 BXU	212200	1			
	Maher	MK21 BXO	206393	1			
	Maher	MK21 BXU	212199	1			
	Maher	MV20 RKA	205758	1			

17/06/2021	Maher	MK21 CHF	225281	1			
------------	-------	----------	--------	---	--	--	--

21/06/2021	Maher	MK21 CHF	228157			1	
	Maher	MK21 CHF	228153			1	
	Maher	MK21 BXW	228147			1	
	Maher	MK21 BXW	206952			1	
	Maher	MK21 CHF	228155			1	
	Maher	MK21 CHF	228159			1	
	Maher	MK21 CHF	228151			1	
	Maher	MK21 BXW	228149			1	
	Maher	MK21 BXW	206956			1	
	Maher	MT21 TVZ	227352			1	
	Maher	MT21 TVZ	227498			1	
	Maher	MT21 TVX	227106			1	
	Maher	MK21 BXW	206954			1	
	Maher	MT21 TVZ	227354			1	
	Maher	MT21 TVZ	227500			1	
	Maher	MT21 TVZ	227496			1	
	Maher	MT21 TVU	213624			1	
	Maher	MT21 TVU	213628			1	
	Maher	MT21 TVU	213632			1	
	Maher	MT21 TVX	227108			1	
	Maher	MT21 TVU	213626			1	
	Maher	MT21 TVU	213630			1	
	Maher	MT21 TVU	213634			1	

22/06/2021	Maher	MK21 BXW	206962			1	
	Maher	MK21 CHF	228164			1	
	Maher	MT21 TVZ	227358			1	
	Maher	MT21 TVX	227119			1	
	Maher	MK21 BXW	206960			1	
	Maher	MK21 CHF	228166			1	
	Maher	MK21 TVZ	227356			1	

08/07/2021	Maher	MV20 RKF	210090		1		
	Maher	MV20 RKF	210091		1		
	Maher	MV20 RKF	210092		1		
	Maher	MV20 RKF	210093		1		

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RKF	210096		1		
	Maher	MV20 RKF	210097		1		
	Maher	MV20 RKF	210098		1		

08/07/2021	Maher	MV20 RFJ	52073				1
	Maher	MV20 RFJ	52074				1
	Maher	MV20 RFJ	52075				1
	Maher	MV20 RFJ	52076				1
	Maher	MV20 RFJ	52077				1
	Maher	MV20 RFJ	52078				1
	Maher	MV20 RFJ	52079				1
	Maher	MK21 CHG	208059				1
	Maher	MK21 CHG	208060				1
	Maher	MK21 CHG	208061				1
	Maher	MK21 CHG	208062				1
	Maher	MT21 TVW	208845				1
	Maher	MT21 TVW	208846				1
	Maher	MT21 TVW	208847				1
	Maher	MT21 TVW	208848				1
	Maher	MT21 TVW	208849				1
	Maher	MT21 TVW	208850				1
	Maher	MK21 BXN	210139				1
	Maher	MK21 BXN	210140				1
	Maher	MK21 BXN	210141				1
	Maher	MK21 BXN	210142				1
	Maher	MK21 BXN	210143				1
	Maher	MK21 BXN	210144				1
	Maher	MK21 BXN	210145				1
	Maher	MT21 TVU	211102				1
	Maher	MK21 BXX	214551				1
	Maher	MK21 BXX	214552				1
	Maher	MK21 BXX	214553				1
	Maher	MK21 BXX	214554				1
	Maher	MT21 TVU	226288				1
	Maher	MT21 TVU	226289				1
	Maher	MT21 TVU	226290				1
	Maher	MT21 TVU	226291				1
	Maher	MT21 TVU	226292				1
	Maher	MT21 TVU	226293				1
	Maher	MT21 TVU	226294				1
	Maher	MV20 RKK	227823				1
	Maher	MV20 RKK	227824				1
	Maher	MV20 RKK	227825				1
	Maher	MV20 RKK	227826				1
	Maher	MV20 RKK	227827				1
	Maher	MV20 RKK	227828				1
	Maher	MV20 RKK	227829				1
	Maher	MT21 TVX	228423				1
	Maher	MT21 TVX	228424				1
	Maher	MT21 TVX	228428				1
	Maher	MK21 BXO	228594				1
	Maher	MK21 BXO	228595				1
	Maher	MK21 BXO	228596				1
	Maher	MK21 BXO	228597				1
	Maher	MK21 BXO	228598				1
	Maher	MK21 BXO	228599				1
	Maher	MK21 BXO	228600				1
	Maher	MK21 BXX	230648				1
	Maher	MK21 BXX	230649				1
	Maher	MK21 BXX	230650				1
	Maher	MV20 RLY	232319				1
	Maher	MV20 RLY	232320				1
	Maher	MV20 RLY	232321				1
	Maher	MV20 RLY	232322				1
	Maher	MV20 RLY	232323				1

09/07/2021	Maher	MV20 RKF	210099		1		
	Maher	MV20 RKF	210100		1		
	Maher	MV20 RKF	232352		1		

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RKF	232353		1		
	Maher	MV20 RKF	232354		1		
	Maher	MV20 RKF	232355		1		
	Maher	MV20 RKF	232356		1		

09/07/2021	Maher	MK21 BXO	122559				1
	Maher	MK21 BXO	122560				1
	Maher	MK21 BXO	122561				1
	Maher	MK21 BXO	122562				1
	Maher	MK21 BXO	122563				1
	Maher	MK21 BXO	122564				1
	Maher	MK21 BXO	122565				1
	Maher	MK21 CHG	208063				1
	Maher	MK21 CHG	208064				1
	Maher	MK21 CHG	208065				1
	Maher	MK21 CHG	208066				1
	Maher	MK21 CHG	208067				1
	Maher	MK21 CHG	208068				1
	Maher	MK21 CHG	208069				1
	Maher	MV20 RKN	208305				1
	Maher	MV20 RKN	208306				1
	Maher	MV20 RKN	208307				1
	Maher	MV20 RKN	208308				1
	Maher	MV20 RKN	208309				1
	Maher	MV20 RKN	208310				1
	Maher	MV20 RKN	208311				1
	Maher	MK21 BXN	210147				1
	Maher	MK21 BXN	210148				1
	Maher	MK21 BXN	210149				1
	Maher	MK21 BXN	210150				1
	Maher	MK21 BXX	214555				1
	Maher	MK21 BXX	214556				1
	Maher	MK21 BXX	214557				1
	Maher	MK21 BXX	214558				1
	Maher	MK21 BXX	214559				1
	Maher	MK21 BXX	214560				1
	Maher	MK21 BXX	214561				1
	Maher	MV20 RKK	227830				1
	Maher	MV20 RKK	227831				1
	Maher	MV20 RKK	227832				1
	Maher	MV20 RKK	227833				1
	Maher	MV20 RKK	227834				1
	Maher	MV20 RKK	227835				1
	Maher	MV20 RKK	227836				1
	Maher	MT21 TVX	227837				1
	Maher	MT21 TVX	227839				1
	Maher	MK21 BXN	230801				1
	Maher	MK21 BXN	230802				1
	Maher	MV20 RLY	232324				1
	Maher	MV20 RLY	232325				1
	Maher	MV20 RLY	232326				1
	Maher	MV20 RLY	232327				1
	Maher	MV20 RLY	232328				1
	Maher	MV20 RLY	232329				1
	Maher	MV20 RLY	232330				1
	Maher	MK21 BXL	232451				1
	Maher	MK21 BXL	232452				1
	Maher	MK21 BXL	232453				1
	Maher	MK21 BXL	232454				1
	Maher	MK21 BXL	232455				1
	Maher	MK21 BXL	232456				1
	Maher	MK21 BXL	232457				1

20/07/2021	Maher	MT21 TVU	202258				1
	Maher	MT21 TVU	202259				1
	Maher	MT21 TVU	202260				1
	Maher	MT21 TVU	202261				1
	Maher	MT21 TVU	202262				1
	Maher	MT21 TVU	202263				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MT21 TVU	202264				1
	Maher	MT21 TVU	202265				1
	Maher	MV20 RKN	208332				1
	Maher	MV20 RKN	208333				1
	Maher	MV20 RKN	208334				1
	Maher	MV20 RKN	208335				1
	Maher	MV20 RKN	208336				1
	Maher	MV20 RKN	208337				1
	Maher	MV20 RKN	208338				1
	Maher	MV20 RKN	208339				1
	Maher	MT21 TVO	227445				1
	Maher	MK21 BXV	228025				1
	Maher	MK21 BXV	228026				1
	Maher	MK21 BXV	228027				1
	Maher	MK21 BXV	228028				1
	Maher	MK21 BXV	228029				1
	Maher	MK21 BXV	228030				1
	Maher	MK21 BXV	228031				1
	Maher	MK21 BXV	228032				1
	Maher	MT21 TVV	229018				1
	Maher	MT21 TVV	229019				1
	Maher	MT21 TVV	229020				1
	Maher	MT21 TVV	229021				1
	Maher	MT21 TVV	229022				1
	Maher	MT21 TVV	229023				1
	Maher	MT21 TVV	229024				1
	Maher	MV20 RKK	229269				1
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	Maher	MV20 RKK	229267				1
	Maher	MV20 RKK	229268				1
	Maher	MK21 BXO	230357				1
	Maher	MK21 BXO	230358				1
	Maher	MK21 BXO	230359				1
	Maher	MK21 BXO	230360				1
	Maher	MK21 BXO	230361				1
	Maher	MK21 BXO	230362				1
	Maher	MK21 BXO	230363				1
	Maher	MK21 BXO	230364				1
	Maher	MV20 RKF	232384				1
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	Maher	MV20 RKF	232387				1
	Maher	MV20 RKF	232388				1
	Maher	MV20 RKF	232389				1
	Maher	MV20 RKF	232390				1
	Maher	MV20 RLY	232860				1
	Maher	MV20 RLY	232861				1
	Maher	MV20 RLY	232862				1
	Maher	MV20 RLY	232863				1
	Maher	MV20 RLY	232864				1
	Maher	MV20 RLY	232865				1
	Maher	MV20 RLY	232866				1

21/07/2021	Maher	MT21 TVU	202266				1
	Maher	MT21 TVU	202267				1
	Maher	MT21 TVU	202268				1
	Maher	MT21 TVU	202269				1
	Maher	MT21 TVU	202270				1
	Maher	MT21 TVU	202271				1
	Maher	MT21 TVU	202272				1
	Maher	MT21 TVU	202273				1
	Maher	MT21 TVO	215074				1
	Maher	MK21 BXV	228040				1
	Maher	MK21 BXV	228041				1
	Maher	MK21 BXV	228034				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MK21 BXV	228035				1
	Maher	MK21 BXV	228036				1
	Maher	MK21 BXV	228037				1
	Maher	MK21 BXV	228038				1
	Maher	MK21 BXV	228039				1
	Maher	MK21 CHF	228241				1
	Maher	MK21 CHF	228242				1
	Maher	MK21 CHF	228243				1
	Maher	MK21 CHF	228244				1
	Maher	MK21 CHF	228245				1
	Maher	MV20 RKK	229270				1
	Maher	MV20 RKK	229271				1
	Maher	MV20 RKK	229272				1
	Maher	MV20 RKK	229273				1
	Maher	MV20 RKK	229274				1
	Maher	MV20 RKK	229275				1
	Maher	MV20 RKK	229276				1
	Maher	MV20 RKK	229277				1
	Maher	MK21 BXO	230365				1
	Maher	MK21 BXO	230366				1
	Maher	MK21 BXO	230367				1
	Maher	MK21 BXO	230368				1
	Maher	MK21 BXO	230369				1
	Maher	MK21 BXO	230370				1
	Maher	MK21 BXO	230371				1
	Maher	MK21 BXO	230372				1
	Maher	MT21 TVZ	231191				1
	Maher	MT21 TVZ	231192				1
	Maher	MT21 TVZ	231193				1
	Maher	MT21 TVZ	231194				1
	Maher	MT21 TVZ	231195				1
	Maher	MT21 TVZ	231196				1
	Maher	MV20 RKJ	231844				1
	Maher	MK21 BXP	231908				1
	Maher	MV20 RKF	232391				1
	Maher	MV20 RKF	232392				1
	Maher	MV20 RKF	232393				1
	Maher	MV20 RKF	232394				1
	Maher	MV20 RKF	232395				1
	Maher	MV20 RKF	232396				1
	Maher	MV20 RKF	232397				1
	Maher	MT21 TVX	232672				1
	Maher	MT21 TVX	232673				1
	Maher	MT21 TVX	232674				1
	Maher	MV20 RLY	232867				1
	Maher	MV20 RLY	232868				1
	Maher	MV20 RLY	232869				1
	Maher	MV20 RLY	232870				1
	Maher	MV20 RLY	232871				1
	Maher	MV20 RLY	232872				1
	Maher	MV20 RLY	232873				1

22/07/2021	Maher	MK21 CHF	121809				1
	Maher	MK21 CHF	121810				1
	Maher	MK21 CHF	121811				1
	Maher	MK21 CHF	121812				1
	Maher	MK21 CHF	121813				1
	Maher	MK21 CHF	121814				1
	Maher	MK21 CHF	121815				1
	Maher	MV20 RKK	229278				1
	Maher	MV20 RKK	229279				1
	Maher	MV20 RKK	229280				1
	Maher	MV20 RKK	229281				1
	Maher	MV20 RKK	229282				1
	Maher	MV20 RKK	229283				1
	Maher	MV20 RKK	229284				1
	Maher	MV20 RKK	229285				1
	Maher	MV20 RKF	229401				1
	Maher	MV20 RKF	229402				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RKF	229403				1
	Maher	MV20 RKF	229404				1
	Maher	MV20 RKF	229405				1
	Maher	MV20 RKF	229406				1
	Maher	MV20 RKF	229407				1
	Maher	MV20 RKF	229408				1
	Maher	MK21 BXL	230109				1
	Maher	MK21 BXL	230110				1
	Maher	MK21 BXL	230111				1
	Maher	MK21 BXL	230112				1
	Maher	MK21 BXO	230378				1
	Maher	MK21 BXO	230379				1
	Maher	MK21 CHG	230504				1
	Maher	MK21 CHG	230505				1
	Maher	MK21 CHG	230506				1
	Maher	MK21 CHG	230507				1
	Maher	MK21 CHG	230508				1
	Maher	MK21 CHG	230509				1
	Maher	MK21 CHG	230510				1
	Maher	MK21 CHG	230511				1
	Maher	MK21 BXX	230688				1
	Maher	MK21 BXX	230689				1
	Maher	MK21 BXN	230756				1
	Maher	MK21 BXN	230757				1
	Maher	MK21 BXN	230758				1
	Maher	MK21 BXN	230759				1
	Maher	MK21 BXN	230760				1
	Maher	MK21 BXN	230761				1
	Maher	MK21 BXN	230762				1
	Maher	MK21 BXU	232418				1
	Maher	MT21 TVX	232677				1
	Maher	MT21 TVX	232678				1
	Maher	MT21 TVX	232679				1
	Maher	MT21 TVX	232680				1
	Maher	MT21 TVX	232681				1
	Maher	MT21 TVX	232682				1
	Maher	MT21 TVX	232683				1
	Maher	MV20 RLY	232874				1
	Maher	MV20 RLY	232875				1
	Maher	MV20 RLY	232876				1
	Maher	MV20 RLY	232877				1
	Maher	MV20 RLY	232878				1
	Maher	MV20 RLY	232879				1
	Maher	MV20 RLY	232880				1
27/07/2021	Maher	MK21 CHF	121846	1			
	Maher	MK21 CHF	121847	1			
	Maher	MK21 CHF	121848	1			
	Maher	MK21 CHF	121849	1			
	Maher	MK21 CHF	121850	1			
	Maher	MV20 RKF	217395	1			
	Maher	MV20 RKF	217396	1			
	Maher	MV20 RKF	217397	1			
	Maher	MV20 RKF	217398	1			
	Maher	MV20 RKF	217399	1			
	Maher	MV20 RKF	217400	1			
	Maher	MK21 BXX	229943	1			
	Maher	MK21 BXX	229944	1			
	Maher	MK21 BXX	229945	1			
	Maher	MK21 BXX	229946	1			
	Maher	MK21 BXX	229947	1			
	Maher	MK21 BXX	229948	1			
	Maher	MK21 BXX	229949	1			
	Maher	MK21 BXW	229951	1			
	Maher	MK21 BXW	229952	1			
	Maher	MK21 BXW	229956	1			
	Maher	MK21 BXN	230796	1			
	Maher	MK21 BXN	230797	1			
	Maher	MK21 BXN	230798	1			

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MK21 BXN	230799	1			
	Maher	MK21 BXN	230800	1			
	Maher	MT21 TVX	231644	1			
	Maher	MV20 RKF	234151	1			
	Maher	MV20 RKF	234152	1			
	Maher	MK21 CHF	234454	1			
	Maher	MK21 CHF	234455	1			
	Maher	MK21 CHF	234456	1			
	Maher	MK21 BXN	236301	1			
	Maher	MK21 BXN	236302	1			

28/07/2021	Maher	MT21 TVZ	220831	1			
	Maher	MK21 BXX	229950	1			
	Maher	MK21 BXX	230401	1			
	Maher	MT21 TVX	231648	1			
	Maher	MV20 RKF	234153	1			
	Maher	MV20 RKF	234154	1			
	Maher	MK21 CHF	234457	1			
	Maher	MK21 CHF	234458	1			

27/08/2021	Maher	MV20 RKJ	212415				1
	Maher	MV20 RKJ	212417				1
	Maher	MV20 RKJ	212419				1
	Maher	MV20 RKJ	212420				1
	Maher	MV20 RKJ	212421				1
	Maher	MV20 RKJ	212422				1
	Maher	MK21 BXN	230992				1
	Maher	MK21 BXN	230993				1
	Maher	MK21 BXN	230994				1
	Maher	MK21 BXN	230995				1
	Maher	MK21 BXN	230996				1
	Maher	MK21 BXN	230997				1
	Maher	MK21 BXO	233758				1
	Maher	MK21 BXO	233760				1
	Maher	MK21 BXO	233763				1
	Maher	MK21 BXO	233764				1
	Maher	MK21 BXO	233765				1
	Maher	MK21 BXO	233766				1
	Maher	MV20 RKF	234218				1
	Maher	MV20 RKF	234220				1
	Maher	MV20 RKF	234222				1
	Maher	MV20 RKF	234223				1
	Maher	MV20 RKF	234224				1
	Maher	MT21 BXW	234811				1
	Maher	MT21 BXW	234813				1
	Maher	MT21 BXW	234815				1
	Maher	MT21 BXW	234816				1
	Maher	MT21 BXW	234817				1
	Maher	MT21 BXW	234818				1
	Maher	MT21 BXW	234819				1
	Maher	MT21 TVO	234969				1
	Maher	MT21 TVO	234972				1
	Maher	MT21 TVO	234974				1
	Maher	MT21 TVO	234975				1
	Maher	MT21 TVO	234976				1
	Maher	MT21 TVO	234977				1
	Maher	MK21 BXZ	235644				1
	Maher	MK21 BXZ	235645				1
	Maher	MK21 BXZ	235646				1
	Maher	MK21 BXP	235840				1
	Maher	MK21 BXP	235842				1
	Maher	MK21 BXP	235844				1
	Maher	MK21 BXP	235845				1
	Maher	MK21 BXP	235846				1
	Maher	MK21 BXP	235847				1
	Maher	MT21 TVW	235936				1
	Maher	MT21 TVW	235937				1
	Maher	MT21 TVW	235940				1
	Maher	MT21 TVW	235941				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MT21 TVW	235942				1
	Maher	MT21 TVW	235943				1
	Maher	MV20 RLY	236859				1
	Maher	MV20 RLY	236862				1
	Maher	MV20 RLY	236864				1
	Maher	MV20 RLY	236865				1
	Maher	MV20 RLY	236866				1

31/08/2021	Maher	MV20 RKJ	212423				1
	Maher	MV20 RKJ	212424				1
	Maher	MV20 RKJ	212425				1
	Maher	MV20 RKJ	212426				1
	Maher	MV20 RKJ	212427				1
	Maher	MV20 RKJ	212428				1
	Maher	MV20 RKJ	212429				1
	Maher	MV20 RKJ	212430				1
	Maher	MT21 TVW	231550				1
	Maher	MK21 BXO	233767				1
	Maher	MK21 BXO	233768				1
	Maher	MK21 BXO	233769				1
	Maher	MK21 BXO	233770				1
	Maher	MK21 BXO	233771				1
	Maher	MK21 BXO	233772				1
	Maher	MK21 BXO	233773				1
	Maher	MK21 BXO	233774				1
	Maher	MV20 RKF	234225				1
	Maher	MV20 RKF	234226				1
	Maher	MV20 RKF	234227				1
	Maher	MV20 RKF	234228				1
	Maher	MV20 RKF	234229				1
	Maher	MV20 RKF	234230				1
	Maher	MV20 RKF	234231				1
	Maher	MK21 BXP	235848				1
	Maher	MK21 BXP	235849				1
	Maher	MT21 TVW	235944				1
	Maher	MT21 TVW	235945				1
	Maher	MT21 TVW	235946				1
	Maher	MT21 TVW	235947				1
	Maher	MT21 TVW	235948				1
	Maher	MT21 TVW	235949				1
	Maher	MT21 TVW	235950				1

29/10/2021	Maher	MT21 TVO	194975				1
	Maher	MT21 TVO	194976				1
	Maher	MT21 TVO	194978				1
	Maher	MT21 TVO	194979				1
	Maher	MT21 TVO	194980				1
	Maher	MK21 BXV	227233				1
	Maher	MK21 BXV	227235				1
	Maher	MK21 BXV	227236				1
	Maher	MK21 BXV	227237				1
	Maher	MK21 BXV	227238				1
	Maher	MK21 BXV	227239				1
	Maher	MK21 CHF	238779				1
	Maher	MK21 CHF	238781				1
	Maher	MK21 CHF	238782				1
	Maher	MK21 CHF	238783				1
	Maher	MK21 CHF	238784				1
	Maher	MK21 CHF	238785				1
	Maher	MV20 RKK	241073				1
	Maher	MV20 RKK	241074				1
	Maher	MV20 RKK	241075				1
	Maher	MV20 RKK	241076				1
	Maher	MV20 RKK	241077				1
	Maher	MV20 RKK	241078				1
	Maher	MK21 BXX	247621				1
	Maher	MK21 CHG	247464				1
	Maher	MT21 TVZ	248178				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
01/11/2021	Maher	MV20 RKJ	238787				1
	Maher	MV20 RKJ	238788				1
	Maher	MV20 RKJ	238789				1
	Maher	MV20 RKJ	238790				1
	Maher	MV20 RKJ	238791				1
	Maher	MV20 RKJ	238792				1
	Maher	MV20 RKK	241080				1
	Maher	MV20 RKK	241081				1
	Maher	MV20 RKK	241082				1
	Maher	MV20 RKK	241083				1
	Maher	MV20 RKK	241084				1
	Maher	MV20 RKK	241085				1
	Maher	MK21 BXU	242611				1
	Maher	MK21 BXU	242612				1
	Maher	MK21 BXW	245002				1
	Maher	MK21 BXW	245003				1
	Maher	MK21 BXW	245004				1
	Maher	MK21 BXW	245005				1
	Maher	MK21 BXW	245006				1
	Maher	MK21 BXW	245007				1
	Maher	MK21 BXX	247623				1
	Maher	MK21 BXX	247624				1
	Maher	MK21 BXX	247625				1
	Maher	MK21 BXX	247626				1
	Maher	MK21 BXX	247627				1
	Maher	MK21 BXX	247628				1
	Maher	MT21 TVZ	248180				1
	Maher	MT21 TVZ	248181				1
	Maher	MT21 TVZ	248182				1
	Maher	MT21 TVZ	248183				1
	Maher	MT21 TVZ	248184				1
	Maher	MT21 TVZ	248185				1
	Maher	MT21 TVX	248817				1
	Maher	MT21 TVX	248818				1
	Maher	MT21 TVX	248819				1
	Maher	MT21 TVX	248820				1
	Maher	MT21 TVX	248821				1
	Maher	MT21 TVX	248822				1

08/11/2021	Maher	MT21 TVW	235995				1
	Maher	MT21 TVW	235996				1
	Maher	MT21 TVW	235997				1
	Maher	MT21 TVW	235998				1
	Maher	MT21 TVW	235999				1
	Maher	MT21 TVW	236000				1
	Maher	MK21 CHG	236992				1
	Maher	MT21 TVO	241278				1
	Maher	MT21 TVO	241279				1
	Maher	MT21 TVO	241280				1
	Maher	MT21 TVO	241281				1
	Maher	MT21 TVO	241282				1
	Maher	MT21 TVO	241283				1
	Maher	MT21 TVW	243301				1
	Maher	MK21 BXX	245715				1
	Maher	MK21 BXX	245716				1
	Maher	MK21 BXX	245717				1
	Maher	MK21 BXX	245718				1
	Maher	MK21 BXX	245719				1
	Maher	MK21 BXX	245720				1
	Maher	MK21 BXU	247962				1

09/11/2021	Maher	MV20 RKJ	238678				1
	Maher	MV20 RKJ	238679				1
	Maher	MV20 RKJ	238680				1
	Maher	MV20 RKJ	238681				1
	Maher	MV20 RKJ	238682				1
	Maher	MV20 RKJ	238683				1
	Maher	MV20 RLY	240003				1
	Maher	MV20 RLY	240004				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RLY	240005				1
	Maher	MV20 RLY	240006				1
	Maher	MV20 RLY	240007				1
	Maher	MV20 RLY	240008				1
	Maher	MV20 RLY	240010				1
	Maher	MT21 TVW	243303				1
	Maher	MT21 TVW	243304				1
	Maher	MT21 TVW	243305				1
	Maher	MT21 TVW	243306				1
	Maher	MV20 RKN	246764				1
	Maher	MV20 RKN	246765				1
	Maher	MV20 RKN	246766				1
	Maher	MV20 RKN	246767				1
	Maher	MV20 RKN	246768				1
	Maher	MV20 RKN	246769				1

15/11/2021	Maher	MV20 RLY	240031				1
	Maher	MV20 RLY	240032				1
	Maher	MV20 RLY	240033				1
	Maher	MV20 RLY	240034				1
	Maher	MV20 RLY	240035				1
	Maher	MV20 RLY	240036				1
	Maher	MV20 RLY	240037				1
	Maher	MK21 BXO	241517				1
	Maher	MK21 BXO	241518				1
	Maher	MK21 BXO	241519				1
	Maher	MK21 BXO	241520				1
	Maher	MK21 BXO	241521				1
	Maher	MK21 BXO	241522				1
	Maher	MK21 BXO	241523				1
	Maher	MK21 BXN	242589				1
	Maher	MK21 BXN	242590				1
	Maher	MK21 BXN	242591				1
	Maher	MK21 BXN	242592				1
	Maher	MK21 BXN	242593				1
	Maher	MK21 BXN	242594				1
	Maher	MK21 BXN	242595				1
	Maher	MT21 TVX	247707				1
	Maher	MT21 TVX	247708				1
	Maher	MT21 TVX	247709				1
	Maher	MT21 TVX	247710				1
	Maher	MV20 RKJ	249452				1
	Maher	MV20 RKJ	249453				1
	Maher	MV20 RKJ	249454				1
	Maher	MV20 RKJ	249455				1
	Maher	MV20 RKJ	249456				1
	Maher	MV20 RKJ	249457				1

16/11/2021	Maher	MV20 RLY	240039				1
	Maher	MV20 RLY	240040				1
	Maher	MV20 RLY	240041				1
	Maher	MV20 RLY	240042				1
	Maher	MV20 RLY	240043				1
	Maher	MV20 RLY	240044				1
	Maher	MV20 RKK	240247				1
	Maher	MV20 RKK	240248				1
	Maher	MV20 RKK	240249				1
	Maher	MV20 RKK	240250				1
	Maher	MV20 RKF	240537				1
	Maher	MV20 RKF	240538				1
	Maher	MV20 RKF	240539				1
	Maher	MV20 RKF	240540				1
	Maher	MV20 RKF	240541				1
	Maher	MV20 RKF	240542				1
	Maher	MK21 BXW	246045				1
	Maher	MK21 BXW	246046				1
	Maher	MV20 RKJ	249460				1
	Maher	MV20 RKJ	249463				1
	Maher	MV20 RKK	249860				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RKK	249861				1
17/11/2021	Maher	MK21 BXO	241524				1
	Maher	MK21 BXO	241525				1
	Maher	MK21 BXO	241526				1
	Maher	MK21 BXO	241527				1
	Maher	MK21 BXO	241528				1
	Maher	MK21 BXO	241529				1
	Maher	MK21 BXO	241530				1
	Maher	MK21 BXO	241531				1
	Maher	MV20 RKN	248880				1
	Maher	MV20 RKN	248881				1
	Maher	MV20 RKN	248882				1
	Maher	MV20 RKN	248883				1
	Maher	MV20 RKN	248884				1
	Maher	MV20 RKN	248885				1
	Maher	MV20 RKN	248886				1
	Maher	MV20 RKN	248887				1
	Maher	MT21 TVZ	249267				1
	Maher	MT21 TVZ	249268				1
	Maher	MT21 TVZ	249269				1
	Maher	MT21 TVZ	249270				1
	Maher	MT21 TVZ	249271				1
	Maher	MT21 TVZ	249272				1
	Maher	MT21 TVZ	249273				1
	Maher	MV20 RKK	249862				1
	Maher	MV20 RKK	249863				1
	Maher	MV20 RKK	249864				1
	Maher	MV20 RKK	249865				1
	Maher	MV20 RKK	249866				1
	Maher	MV20 RKK	249867				1
	Maher	MV20 RKK	249868				1
	Maher	MV20 RKK	249869				1
	Maher	MT21 TVV	250055				1
18/11/2021	Maher	MK21 BXO	241532				1
	Maher	MK21 BXO	241533				1
	Maher	MK21 BXO	241534				1
	Maher	MK21 BXO	241535				1
	Maher	MK21 BXO	241536				1
	Maher	MK21 BXO	241537				1
	Maher	MK21 BXO	241538				1
	Maher	MK21 BXO	241539				1
	Maher	MK21 BXW	246047				1
	Maher	MK21 BXW	246048				1
	Maher	MK21 BXW	246049				1
	Maher	MK21 BXW	246050				1
	Maher	MK21 BXW	248901				1
	Maher	MK21 BXW	248902				1
	Maher	MK21 BXW	248903				1
	Maher	MK21 BXW	248904				1
	Maher	MV20 RKK	249870				1
	Maher	MV20 RKK	249871				1
	Maher	MV20 RKK	249872				1
	Maher	MV20 RKK	249873				1
	Maher	MV20 RKK	249875				1
	Maher	MV20 RKK	249876				1
	Maher	MV20 RKK	249877				1
	Maher	MV20 RKK	249878				1
23/11/2021	Maher	MT21 TVU	247828				1
	Maher	MT21 TVU	247829				1
	Maher	MT21 TVU	247830				1
	Maher	MT21 TVU	247831				1
	Maher	MT21 TVU	247832				1
	Maher	MT21 TVU	247833				1
	Maher	MT21 TVU	247834				1
	Maher	MT21 TVU	247835				1
	Maher	MV20 RKK	249893				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RKK	249894				1
	Maher	MV20 RKK	249895				1
	Maher	MV20 RKK	249896				1
	Maher	MV20 RKK	249897				1
	Maher	MV20 RKK	249898				1
	Maher	MV20 RKK	249899				1
	Maher	MV20 RKK	249900				1
	Maher	MV20 RKN	250031				1
	Maher	MV20 RKN	250032				1
	Maher	MV20 RKN	250033				1
	Maher	MV20 RKN	250034				1
	Maher	MV20 RKN	250035				1
	Maher	MV20 RKN	250036				1
	Maher	MV20 RKN	250037				1
	Maher	MV20 RKN	250038				1

24/11/2021	Maher	MK21 BXL	237425				1
	Maher	MK21 BXV	248917				1
	Maher	MK21 BXV	248918				1
	Maher	MK21 BXV	248919				1
	Maher	MK21 BXV	248920				1
	Maher	MK21 BXV	248921				1
	Maher	MK21 BXV	248922				1
	Maher	MK21 BXV	248923				1
	Maher	MK21 BXP	249751				1
	Maher	MK21 BXP	249752				1
	Maher	MK21 BXP	249753				1
	Maher	MK21 BXP	249997				1
	Maher	MK21 BXP	249998				1
	Maher	MK21 BXP	249999				1
	Maher	MK21 BXP	250000				1
	Maher	MV20 RKK	257104				1
	Maher	MV20 RKK	257105				1
	Maher	MV20 RKK	257106				1
	Maher	MV20 RKK	257107				1
	Maher	MV20 RKK	257108				1
	Maher	MV20 RKK	257109				1
	Maher	MV20 RKK	257110				1

26/01/2022	Fox Bros	PN70 EFA	74445				1
	Fox Bros	PN70 EFH	28085				1
	Fox Bros	PN70 EFA	74448				1
	Fox Bros	PN70 EFH	28089				1

27/01/2022	Fox Bros	PN70 EFH	28090				1
	Fox Bros	PN70 EFA	90551				1
	Fox Bros	PN70 EFH	28093				1
	Fox Bros	PN70 EFA	90553				1

28/01/2022	Fox Bros	PN70 EFH	28100				1
	Fox Bros	PN70 EFB	64566				1
	Fox Bros	PN70 EFJ	69308				1
	Fox Bros	PN70 EFH	28097				1
	Fox Bros	PN70 EFJ	69311				1
	Fox Bros	PN70 EFB	64564				1
	Fox Bros	PN70 EFA	90557				1
	Fox Bros	PN70 EFA	90560				1

31/01/2022	Fox Bros	PN70 EFE	76185				1
	Fox Bros	PN70 EFJ	76744				1
	Fox Bros	PN70 EFE	76188				1
	Fox Bros	PN70 EFH	90757				1
	Fox Bros	PN70 EFA	90567				1
	Fox Bros	PN70 EFJ	76741				1
	Fox Bros	PN70 EFG	90210				1
	Fox Bros	PN70 EFG	90213				1
	Fox Bros	PN70 EFA	90564				1
	Fox Bros	PN70 EFH	90754				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Fox Bros	PN70 EFH	90753				1
01/02/2022	Fox Bros	PN70 EFG	90217				1
	Fox Bros	PN70 EFA	90569				1
	Fox Bros	PN70 EFE	76190				1
	Fox Bros	PN70 EFG	90215				1
	Fox Bros	PN70 EFA	90571				1
	Fox Bros	PN70 EFE	76193				1
02/02/2022	Fox Bros	PN70 EFE	76198				1
	Fox Bros	PN70 EFE	76196				1
	Fox Bros	PN70 EFA	90577				1
	Fox Bros	PN70 EFG	90220				1
	Fox Bros	PN70 EFA	90574				1
	Fox Bros	PN70 EFG	90222				1
03/02/2022	Fox Bros	PN70 EFG	90227				1
	Fox Bros	PN70 EFG	90224				1
	Fox Bros	PN70 EFA	90582				1
	Fox Bros	PN70 EFE	76853				1
	Fox Bros	PN70 EFA	90579				1
	Fox Bros	PN70 EFE	76200				1
	Fox Bros	PN70 EFE	76853				1
04/02/2022	Fox Bros	PN70 EFE	76855				1
	Fox Bros	PN70 EFG	90229				1
	Fox Bros	PN70 EFH	90776				1
	Fox Bros	PN70 EFA	87701				1
	Fox Bros	PN70EFH	90779				1
	Fox Bros	PN70 EFA	87704				1
	Fox Bros	PN70 EFE	76857				1
	Fox Bros	PN70 EFG	90231				1
07/02/2022	Fox Bros	PN20 EFE	91153				1
	Fox Bros	PN20 EFE	91155				1
	Fox Bros	PN70 EFH	90786				1
	Fox Bros	PN70 EFA	87455				1
	Fox Bros	PN70 EFE	76864				1
	Fox Bros	PN70 EFE	76861				1
	Fox Bros	PN70 EFA	87452				1
	Fox Bros	PN70 EFH	90782				1
	Fox Bros	PN70 EFA	87456				1
	Fox Bros	PN70 EFE	76865				1
	Fox Bros	PN70 EFH	90786				1
08/02/2022	Fox Bros	PN70 EFJ	41409				1
	Fox Bros	PN70 EFJ	41410				1
	Fox Bros	PN70 EFJ	41408				1
	Fox Bros	PN70 EFH	90792				1
	Fox Bros	PN70 EFH	90790				1
	Fox Bros	PN70 EFA	87460				1
	Fox Bros	PN70 EFA	87458				1
	Fox Bros	PN70 EFH	90788				1
	Fox Bros	PN70 EFE	76868				1
	Fox Bros	PN70 EFG	90240				1
	Fox Bros	PN70 EFE	76872				1
	Fox Bros	PN70 EFE	76867				1
	Fox Bros	PN70 EFG	90238				1
09/02/2022	Fox Bros	PN70 EFG	90243				1
	Fox Bros	PN70 EFE	76873				1
	Fox Bros	PN70 EFA	87462				1
	Fox Bros	PN70 EFA	87464				1
	Fox Bros	PN70 EFH	90793				1
	Fox Bros	PN70 EFG	90242				1
	Fox Bros	PN70 EFH	90795				1
	Fox Bros	PN70 EFE	76875				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
10/02/2022	Fox Bros	PN70 EFH	87151				1
	Fox Bros	PN70 EFH	90799				1
	Fox Bros	PN70 EFH	90797				1

07/03/2022	Maher	MK21 BXN	272404				1
	Maher	MV20 RKF	270529				1
	Maher	MK21 BXU	251038				1
	Maher	MK21 BXN	272403				1
	Maher	MK21 BXU	251037				1
	Maher	MT21 TVX	270566				1
	Maher	MK21 BXU	251033				1
	Maher	MK21 BXU	251034				1
	Maher	MV20 RKF	270525				1
	Maher	MT21 TVX	270567				1
	Maher	MV20 RKF	270526				1
	Maher	MK21 BXN	272401				1
	Maher	MV20 RKF	270527				1
	Maher	MK21 BXU	251035				1
	Maher	MK21 BXU	251032				1
	Maher	MK21 BXN	260900				1
	Maher	MK21 BXN	260899				1
	Maher	MK21 BXN	272402				1
	Maher	MV20 RKF	270528				1
	Maher	MK21 BXU	251036				1

08/03/2022	Maher	MT21 TVX	270575				1
	Maher	MK21 CHF	261811				1
	Maher	MK21 BXN	272406				1
	Maher	MT21 TVO	260095				1
	Maher	MK21 CHF	261812				1
	Maher	MT21 TVO	260097				1
	Maher	MT21 TVX	270578				1
	Maher	MK21 CHF	261815				1
	Maher	MT21 TVO	260099				1
	Maher	MT21 TVX	270580				1
	Maher	MT21 TVX	270581				1

09/03/2022	Maher	MT21 TVW	208726				1
	Maher	MK21 BXN	272411				1
	Maher	MK21 BXP	260715				1
	Maher	MV20 RLY	272563				1
	Maher	MV20 RLY	272564				1
	Maher	MK21 BXN	272412				1
	Maher	MV20 RLY	272561				1
	Maher	MV20 RLY	272560				1
	Maher	MK21 CHF	261818				1
	Maher	MK21 BXP	260713				1
	Maher	MK21 BXN	272409				1
	Maher	MK21 CHF	261820				1
	Maher	MT21 TVW	208722				1
	Maher	MT21 TVW	208724				1
	Maher	MV20 RLY	272562				1
	Maher	MK21 BXN	272410				1
	Maher	MK21 CHF	261823				1
	Maher	MK21 TVW	208727				1
	Maher	MK21 BXP	260714				1
	Maher	MK21 BXP	260716				1
	Maher	MK21 BXN	272413				1
	Maher	MV20 RLY	272565				1
	Maher	MK21 BXP	260717				1
	Maher	MT21 TVW	208728				1
	Maher	MK21 CHF	261825				1
	Maher	MK21 BXN	272414				1

10/03/2022	Maher	MV20 RLY	272567				1
	Maher	MV20 RLY	272568				1
	Maher	MV20 RLY	272569				1
	Maher	MV20 RLY	272570				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MV20 RLY	272571				1
	Maher	MV20 RLY	272572				1
	Maher	MK21 CHF	261827				1
	Maher	MK21 CHF	261828				1
	Maher	MK21 CHF	261829				1
	Maher	MT21 TVO	233140				1
	Maher	MT21 TVO	233141				1
	Maher	MT21 TVO	233142				1
	Maher	MT21 TVO	233143				1
	Maher	MT21 TVO	233144				1
	Maher	MV20 RKK	259210				1

11/03/2022	Maher	MK21 CHF	261834				1
	Maher	MK21 BXV	252676				1
	Maher	MT21 TVO	233148				1
	Maher	MV20 RLY	272574				1
	Maher	MK21 CHF	261835				1
	Maher	MK21 BXV	252677				1
	Maher	MT21 TVO	233149				1
	Maher	MV20 RLY	272575				1
	Maher	MK21 CHF	261836				1
	Maher	MK21 BXV	252678				1
	Maher	MV20 RLY	272577				1
	Maher	MK21 CHF	261837				1
	Maher	MK21 BXV	252680				1
	Maher	MT21 TVO	248451				1
	Maher	MK21 CHF	261838				1
	Maher	MK21 BXV	252681				1
	Maher	MV20 RLY	272579				1

14/03/2022	Maher	MK21 BXW	270937				1
	Maher	MK21 CHF	261848				1
	Maher	MV20 RKK	259225				1
	Maher	MK21 CHF	261849				1
	Maher	MV20 RLY	272586				1
	Maher	MT21 TVW	271655				1
	Maher	MV20 RKK	259226				1
	Maher	MK21 CHF	261850				1
	Maher	MV20 RLY	272588				1
	Maher	MT21 TVW	271658				1
	Maher	MV20 RKK	259229				1
	Maher	MK21 CHP	261754				1
	Maher	MV20 RLY	272590				1
	Maher	MT21 TVW	271660				1
	Maher	MT21 TVX	270642				1
	Maher	MV20 RKK	259232				1
	Maher	MK21 CHF	261756				1
	Maher	MV20 RLY	272592				1
	Maher	MT21 TVW	271662				1
	Maher	MT21 TVX	270643				1

15/03/2022	Maher	MK21 CHF	261758				1
	Maher	MV20 RKK	259233				1
	Maher	MV20 RKK	259235				1
	Maher	MT21 TVO	261614				1
	Maher	MV20 RLY	272853				1
	Maher	MK21 CHF	261762				1
	Maher	MT21 TVO	261616				1
	Maher	MV20 RLY	272855				1
	Maher	MV20 RKK	259239				1
	Maher	MK21 CHF	261764				1
	Maher	MT21 TVO	261620				1
	Maher	MT21 TVO	261622				1
	Maher	MV20 RLY	272861				1

16/03/2022	Maher	MK21 TVW	271676				1
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17/03/2022	Maher	MK21 CHG	257019				1
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DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MK21 TVW	271689				1
	Maher	MK21 CHF	261786				1
	Maher	MT21 TVV	261443				1
	Maher	MK21 TVW	271690				1
	Maher	MK21 CHG	257021				1
	Maher	MK21 CHF	261785				1
	Maher	MT21 TVV	261444				1
	Maher	MK21 TVW	271691				1
	Maher	MK21 CHG	257022				1
	Maher	MK21 CHF	261787				1
	Maher	MT21 TVV	261445				1
	Maher	MK21TVW	271692				1
	Maher	MK21 CHG	257023				1
	Maher	MK21 CHF	261788				1
	Maher	MK21 CHG	257024				1
	Maher	MK21 TVW	271693				1
	Maher	MK21 CHF	261789				1
	Maher	MT21 TVX	271523				1
	Maher	MT21 TVV	261442				1
	Maher	MK21 CHF	261783				1
	Maher	MT21 TVX	272182				1
	Maher	MK21 CHG	257017				1
	Maher	MK21 TVW	271687				1

18/03/2022	Maher	MK21 BXX	270137				1
	Maher	MK21 BXZ	250677				1
	Maher	MK21 CHF	261793				1
	Maher	MK21 BXX	270133				1
	Maher	MK21 CHF	261792				1
	Maher	MK21 BXZ	250676				1
	Maher	MK21 BXU	274076				1
	Maher	MK21 BXZ	250675				1
	Maher	MK21 BXU	274075				1
	Maher	MK21 CHF	261791				1
	Maher	MK21 BXX	270134				1
	Maher	MT21 TVX	271534				1
	Maher	MK21 BXU	274077				1
	Maher	MK21 BXX	270135				1
	Maher	MK21 CHF	261794				1
	Maher	MK21 BXZ	250678				1
	Maher	MK21 BXY	274078				1
	Maher	MK21 BXY	270136				1
	Maher	MK21 BXZ	250679				1
	Maher	MU22 UWR	271056				1

21/03/2022	Maher	MK21 BXP	270976				1
	Maher	MK21 BXP	270975				1
	Maher	MT21 TVX	272202				1
	Maher	MK21 BXP	270974				1
	Maher	MK21 BXX	270145				1
	Maher	MT21 TVX	271546				1
	Maher	MK21 BXU	274086				1
	Maher	MT21 TVX	271545				1
	Maher	MK21 BXX	270144				1
	Maher	MK21 BXP	270971				1
	Maher	MK21 BXX	270140				1
	Maher	MK21 BXU	274082				1
	Maher	MT21 TVX	271541				1
	Maher	MK21 BXP	270972				1
	Maher	MK21 BXP	270973				1
	Maher	MK21 BXX	270141				1
	Maher	MK21 BXU	274083				1
	Maher	MK21 BXU	274085				1
	Maher	MK21 BXU	274084				1
	Maher	MK21 BXX	270142				1
	Maher	MK21 BXX	270143				1
	Maher	MT21 TVX	271543				1
	Maher	MK21 CHF	234367				1
	Maher	MK21 BXX	270146				1

DATE	HAULIER	REG #	TICKET #	VEGETATION	MIXED	JKN	SURPLUS FILL
	Maher	MT21 TVX	271547				1
	Maher	MK21 BXP	270977				1
	Maher	MK21 BXU	274087				1

22/03/2022	Maher	MV22 UWT	271922				1
	Maher	MK21 BXW	259819				1
	Maher	MV22 UWT	271937				1
	Maher	MT21 TVW	270666				1
	Maher	MT21 TVW	270662				1
	Maher	MT21 TVX	271549				1
	Maher	MV22 UWT	271920				1
	Maher	MV22 UWT	271924				1
	Maher	MK21 BXP	270981				1
	Maher	MV22 UWT	271926				1
	Maher	MT21 TVW	270665				1
	Maher	MK21 BXW	259821				1
	Maher	MK21 BXW	259823				1
	Maher	MT21 TVW	270664				1
	Maher	MT21 TVW	270663				1
	Maher	MK21 BXW	259825				1
	Maher	MK21 BXW	259827				1
	Maher	MK21 BXW	259829				1
	Maher	MV22 UWT	271930				1
	Maher	MK21 BXP	270987				1
	Maher	MV22 UWT	271928				1
	Maher	MK21 BXW	259817				1
	Maher	MK21 BXP	270985				1
	Maher	MK21 BXP	270983				1
	Maher	MK21 BXW	259831				1
	Maher	MK21 BXW	259837				1

LOADS
m³ per LOAD
VOLUME

71	14	30	965
14	10	14	8,25
994	140	420	7962
VEGETATION	MIXED	JKN	SURPLUS FILL

Appendix 12 : Material Import Summary

DATE HAULIER REG # TICKET # 6F5

13/01/2022	Maher	MK21 BXL	256115	1
	Maher	MK21 BXM	255395	1
	Maher	MV20 RLY	258058	1

26/01/2022	Fox Bros	PN70 EFA	74447	1
	Fox Bros	PN70 EFH	28088	1
	Maher	MK21 BXX	251766	1
	Maher	MT21 TVX	254527	1
	Maher	MK21 BXX	251756	1
	Maher	MK21 CHG	251370	1
	Maher	MT21 TVX	254529	1
	Maher	MK21 CHG	251374	1
	Maher	MT21 TVX	254533	1
	Maher	MK21 BXX	251760	1
	Maher	MK21 BXX	251758	1
	Maher	MT21 TVX	254523	1
	Maher	MK21 BXX	251752	1
	Maher	MK21 CHG	251366	1
	Maher	MT21 TVX	254525	1
	Maher	MK21 CHG	251368	1
	Maher	MK21 BXX	251754	1
	Maher	MK21 CHG	251376	1
	Maher	MK21 CHG	251378	1
	Maher	MK21 BXX	251764	1
	Maher	MT21 TVX	254537	1
	Maher	MK21 CHG	251380	1
	Maher	MT21 TVX	254539	1
	Maher	MT21 TVX	254531	1
	Maher	MK21 CHG	251382	1
	Maher	MK21 BXX	251768	1
	Maher	MT21 TVX	254541	1
	Maher	MK21 BXX	251762	1
	Maher	MT21 TVX	254535	1
	Maher	MK21 CHG	251372	1

27/01/2022	Fox Bros	PN70 EFA	90552	1
	Fox Bros	PN70 EFH	28092	1
	Fox Bros	PN70 EFH	28095	1
	Maher	MK21 CHG	251401	1
	Maher	MK21 BXX	251779	1
	Maher	MK21 CHG	251384	1
	Maher	MT21 TVX	254545	1
	Maher	MK21 BXO	254356	1
	Maher	MK21 BXX	251771	1
	Maher	MK21 CHG	251387	1
	Maher	MK21 BXO	254358	1
	Maher	MK21 BXX	251773	1
	Maher	MK21 CHG	251389	1
	Maher	MK21 BXO	254360	1

DATE	HAULIER	REG #	TICKET #	6F5
	Maher	MK21 BXX	251775	1
	Maher	MK21 CHG	251391	1
	Maher	MK21 BXO	254362	1
	Maher	MK21 BXX	251777	1
	Maher	MT21 TVX	254548	1
	Maher	MK21 CHG	251393	1
	Maher	MK21 BXO	254364	1
	Maher	MT21 TVX	254550	1
	Maher	MK21 CHG	251395	1
	Maher	MK21 BXO	254366	1
	Maher	MK21 BXX	251781	1
	Maher	MK21 CHG	251397	1
	Maher	MK21 BXO	254368	1
	Maher	MK21 BXX	251783	1
	Maher	MK21 BXX	251788	1
	Maher	MK21 BXO	254373	1
	Maher	MK21 BXO	254371	1
	Maher	MK21 CHG	251399	1
	Maher	MK21 BXX	251786	1
	Maher	MT21 TVX	250754	1

28/01/2022	Fox Bros	PN70 EFJ	69307	1
	Fox Bros	PN70 EFA	90556	1
	Fox Bros	PN70 EFB	64563	1
	Fox Bros	PN70 EFH	28096	1
	Fox Bros	PN70 EFA	90559	1
	Fox Bros	PN70 EFH	28099	1
	Fox Bros	PN70 EFJ	69310	1
	Fox Bros	PN70 EFB	64565	1
	Maher	MK21 BXX	251790	1
	Maher	MT21 TVX	250759	1
	Maher	MK21 BXX	251792	1
	Maher	MK21 BXO	254379	1
	Maher	MK21 BXO	254377	1
	Maher	MK21 BXX	251794	1
	Maher	MK21 BXO	254381	1
	Maher	MK21 BXX	251798	1
	Maher	MT21 TVX	250763	1
	Maher	MK21 BXX	251796	1
	Maher	MK21 BXO	254383	1
	Maher	MT21 TVX	250765	1
	Maher	MK21 BXO	254385	1
	Maher	MT21 TVX	250767	1
	Maher	MK21 BXX	251800	1
	Maher	MT21 TVX	255852	1
	Maher	MK21 BXO	254387	1
	Maher	MT21 TVX	250761	1
	Maher	MT21 TVX	250757	1

31/01/2022	Fox Bros	PN70 EFA	90563	1
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DATE	HAULIER	REG #	TICKET #	6F5
	Fox Bros	PN70 EFG	90212	1
	Fox Bros	PN70 EFG	90209	1
	Fox Bros	PN70 EFJ	76740	1
	Fox Bros	PN70 EFA	90566	1
	Fox Bros	PN70 EFH	90756	1
	Fox Bros	PN70 EFJ	76743	1
	Fox Bros	PN70 EFE	76187	1
	Fox Bros	PN70 EFE	76184	1

01/02/2022	Fox Bros	PN70 EFG	90216	1
	Fox Bros	PN70 EFA	90568	1
	Fox Bros	PN70 EFE	76189	1
	Fox Bros	PN70 EFG	90214	1
	Fox Bros	PN70 EFA	90570	1
	Fox Bros	PN70 EFE	76192	1

02/02/2022	Fox Bros	PN70 EFE	76197	1
	Fox Bros	PN70 EFE	76195	1
	Fox Bros	PN70 EFA	90576	1
	Fox Bros	PN70 EFG	90219	1
	Fox Bros	PN70 EFA	90573	1
	Fox Bros	PN70 EFG	90221	1

03/02/2022	Fox Bros	PN70 EFG	90226	1
	Fox Bros	PN70 EFA	90581	1
	Fox Bros	PN70 EFE	76852	1

04/02/2022	Fox Bros	PN70 EFG	90230	1
	Fox Bros	PN70 EFA	87703	1
	Fox Bros	PN70 EFH	90778	1

07/02/2022	Fox Bros	PN70 EFH	90784	1
	Fox Bros	PN70 EFA	87454	1
	Fox Bros	PN70 EFE	76863	1
	Fox Bros	PN70 EFA	87451	1
	Fox Bros	PN70 EFH	90781	1
	Fox Bros	PN70 EFE	76860	1

08/02/2022	Fox Bros	PN70 EFE	76866	1
	Fox Bros	PN70 EFA	87461	1
	Fox Bros	PN70 EFG	90241	1
	Fox Bros	PN70 EFE	76870	1
	Fox Bros	PN70 EFH	90791	1
	Fox Bros	PN70 EFA	87459	1
	Fox Bros	PN70 EFG	90239	1
	Fox Bros	PN70 EFH	90789	1
	Fox Bros	PN70 EFH	90787	1
	Fox Bros	PN70 EFE	76869	1
	Fox Bros	PN70 EFG	90237	1

DATE	HAULIER	REG #	TICKET #	6F5
	Fox Bros	PN70 EFA	87457	1
22/03/2022	Maher	MV22 UWT	271934	1
	Maher	MK21 BXW	259835	1
	Maher	MV22 UWT	271936	1
	Maher	MV22 UWT	271931	1
	Maher	MK21 BXP	270982	1
	Maher	MV22 UWT	271925	1
	Maher	MK21 BXP	270984	1
	Maher	MV22 UWT	271927	1
	Maher	MK21 BXW	259816	1
	Maher	MK21 BXP	270986	1
	Maher	MV22 UWT	271929	1
	Maher	MK21 BXP	270980	1
	Maher	MV22 UWT	271921	1
	Maher	MV22 UWT	271923	1
	Maher	MK21 BXW	259818	1
	Maher	MK21 BXW	259820	1
	Maher	MK21 BXW	259822	1
	Maher	MK21 BXW	259824	1
	Maher	MK21 BXW	259826	1
	Maher	MK21 BXW	259828	1
	Maher	MK21 BXW	259830	1
	Maher	MK21 BXW	259832	1
	Maher	MU22 UWP	271393	1
	Maher	MK21 BXP	270978	1
	Maher	MV22 UWT	271919	1
	Maher	MV22 UWT	271917	1

DATE	HAULIER	REG #	TICKET #	6F5
23/03/2022	Maher	MV22 UWT	271852	1
	Maher	MV22 UWT	271854	1
	Maher	MK21 BXV	291422	1
	Maher	MK21 BXV	291420	1
	Maher	MK21 BXV	291414	1
	Maher	MV22 UWT	271945	1
	Maher	MV22 UWT	271947	1
	Maher	MK21 BXV	291416	1
	Maher	MV22 UWT	271948	1
	Maher	MV22 UWT	271950	1
	Maher	MK21 BXV	291418	1
	Maher	MK21 BXV	291412	1
	Maher	MV22 UWT	271943	1
	Maher	MK21 BXV	291410	1
	Maher	MV22 UWT	271941	1
	Maher	MV22 UWT	271938	1

LOADS	181
m ³ per LOAD	8.25
VOLUME	1494
	6F5

Appendix 13 : Generic Assessment Criteria

Category 4 Screening Levels (C4SL)

Substance	Residential (with home- grown produce)	Residential (without home- grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37 mg/kg	40 mg/kg	49 mg/kg	640 mg/kg	79 mg/kg	168 mg/kg
Benzene	0.87 mg/kg	3.3 mg/kg	0.18 mg/kg	98 mg/kg	140 mg/kg	230 mg/kg
Benzo(a)pyrene	5 mg/kg	5.3 mg/kg	5.7 mg/kg	76 mg/kg	10 mg/kg	21 mg/kg
Cadmium	26 mg/kg	149 mg/kg	4.9 mg/kg	410 mg/kg	220 mg/kg	880 mg/kg
Chromium VI	21 mg/kg	21 mg/kg	170 mg/kg	49 mg/kg	23 mg/kg	250 mg/kg
Lead	200 mg/kg	310 mg/kg	80 mg/kg	2330 mg/kg	630 mg/kg	1300 mg/kg

Summary Table for the Generic Assessment Criteria for Human Health Risk Assessment Land Quality Management (LQM) S4ULs.

All GAC are based on sandy loam soils with a pH 7.

All GAC are based on sandy loam soils with a pH 7.			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Metals	Inorganic Arsenic	6%	37	40	43	640	79	170
	Beryllium	6%	1.7	1.7	35	12	2.2	63
	Boron	6%	290	11,000	45	240,000	21,000	46,000
	Cadmium	6%	11	85	1.9	190	120	532
	Chromium (III)	6%	910	910	18,000	8,600	1,500	33,000
	Chromium (VI)	6%	6.0	6.0	1.8	33	7.7	220
	Copper	6%	2,400	7,100	520	68,000	12,000	44,000
	Elemental Mercury	6%	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}
	Inorganic Mercury	6%	40	56	19	1,100	120	240
	Methylmercury	6%	11	15	6.0	320	40	68
	Nickel	6%	180	180	230	980	230	3,400
	Selenium	6%	250	430	88	12,000	1,100	1,800
	Vanadium	6%	410	1,200	91	9,000	2,000	5,000
Zinc	6%	3,700	40,000	620	730,000	81,000	170,000	
BTEX Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90
		2.5%	0.17	0.70	0.034	47	72	100
		6%	0.37	1.4	0.075	90	73	110
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}

NOTES

^{sol/vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

All GAC are based on sandy loam soils with a pH 7.			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000
		2.5%	5,400	35,000	950	540,000	74,000	150,000
		6%	11,000	37,000	2,200	540,000	74,000	150,000
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49
		2.5%	11	14	6.5	170	29	56
		6%	13	15	13	180	29	62
	Benzo(a)pyrene (only)	1%	2.2	3.2	0.97	35	5.7	11
		2.5%	2.7	3.2	2.0	35	5.7	12
		6%	3.0	3.2	3.5	36	5.7	13
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13
		2.5%	3.3	4.0	2.1	44	7.2	15
		6%	3.7	4.0	3.9	45	7.2	16
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400
		2.5%	340	360	470	4,000	640	1,500
		6%	350	360	640	4,000	640	1,600
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370
		2.5%	93	110	75	1,200	190	410
		6%	100	110	130	1,200	190	440
	Chrysene	1%	15	30	4.1	350	57	93
		2.5%	22	31	9.4	350	57	110
		6%	27	32	19	350	57	120
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3
		6%	0.3	0.32	0.43	3.6	0.58	1.4
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300
		2.5%	560	1,600	130	23,000	3,100	6,300
		6%	890	1,600	290	23,000	3,100	6,400
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150
		2.5%	36	46	21	510	82	170
		6%	41	46	39	510	82	180
	Naphthalene	1%	2.3 ^f	2.3 ^f	4.1 ^f	190 ^f (76.4) ^{sol}	4,900 ^f	1,200 ^f (76.4) ^{sol}
		2.5%	5.6 ^f	5.6 ^f	10 ^f	460 ^f (183) ^{sol}	4,900 ^f	1,900 ^f (183) ^{sol}
		6%	13 ^f	13 ^f	24 ^f	1,100 ^f (432) ^{sol}	4,900 ^f	3,000
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200
		2.5%	220	1,500	38	22,000	3,100	6,200
		6%	440	1,500	90	22,000	3,100	6,300
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000
		2.5%	1,200	3,800	270	54,000	7,400	15,000
		6%	2,000	3,800	620	54,000	7,400	15,000
Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	
	2.5%	0.98	1.2	0.67	15	2.2	4.7	
	6%	1.1	1.2	1.2	15	2.2	4.8	

NOTES

^{sol}/^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = naphthalene is based on comparison of inhalation exposure with TDI_{inhal} for localised effect.

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Aliphatic							
EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}
EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}
EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}
EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}
EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}
EC>16-35	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
EC>35-44	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
Aliphatic							
EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}
EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}
EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}
EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}
EC>12-16	2.5%	2,400 (59) ^{sol}	2,400 (59) ^{sol}	13,000	82,000 (59) ^{sol}	13,000	25,000 (59) ^{sol}
EC>16-35	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
EC>35-44	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
Aliphatic							
EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}
EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}
EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}
EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}
EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}
EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
Aromatic							
EC5-7(benzene as non-threshold)	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}
EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}
EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}
EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000
EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f
EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}
EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}
EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}
EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}
EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000
EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f
EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}
EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}
EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000
EC>12-16	6%	660	2,500	130	38,000	5,100	10,000
EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
Aliphatic +Aromatic >EC44	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f
	2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f
	6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f

NOTES

^{sol}/^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

		LQM Generic Assessment Criteria (mg/kg) Dry weight soil						
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	7.1E-03	9.2E-03	4.6E-03	0.67	29	21
		2.5%	1.1E-02	1.3E-02	8.3E-03	0.97	29	24
		6%	1.9E-02	2.3E-02	1.6E-02	1.7	29	28
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}
		6%	39	40	240	3,000	140,000	100,000 (6,392) ^{vap}
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800
		2.5%	3.4	8.0	0.89	550	1,400	2,100
		6%	7.5	17	2.0	1,100	1,400	2,300
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500
		2.5%	2.8	3.5	1.9	250	1,400	1,800
		6%	6.4	8.2	4.4	560	1,400	2,100
	Tetrachloroethene (PCE)	1%	0.18	0.18	0.65	19	1,400	810 (424) ^{sol}
		2.5%	0.39	0.40	1.5	42	1,400	1,100 (951) ^{sol}
		6%	0.90	0.92	3.6	95	1,400	1,500
	Tetrachloromethane (carbon tetrachloride)	1%	2.6E-02	2.6E-02	0.45	2.9	890	190
		2.5%	5.6E-02	5.6E-02	1.0	6.3	920	270
		6%	0.13	0.13	2.4	14	950	400
	Trichloroethene (TCE)	1%	1.6E-02	1.7E-02	4.1E-02	1.2	120	70
		2.5%	3.4E-02	3.6E-02	9.1E-02	2.6	120	91
		6%	7.5E-02	8.0E-02	0.21	5.7	120	120
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600
		2.5%	1.7	2.1	0.83	170	2,500	2,800
		6%	3.4	4.2	1.7	350	2,500	3,100
	Chloroethene (vinyl chloride)	1%	6.4E-04	7.7E-04	5.5E-04	5.9E-02	3.5	4.8
		2.5%	8.7E-04	1.0E-03	1.0E-03	7.7E-02	3.5	5.0
		6%	1.4E-03	1.5E-03	1.8E-03	0.12	3.5	5.4
	2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260
		2.5%	3.7	66	0.58	1,000	130	270
		6%	8.1	66	1.4	1,000	130	270
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}
		2.5%	250	13,000	38	210,000	26,000	51,000
		6%	540	13,000	85	210,000	27,000	53,000
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30
		2.5%	6.6	7.4	6.1	170	18	31
		6%	7.1	7.5	9.8	170	18	31
	Dieldrin	1%	0.97	7.0	0.17	170	18	30
		2.5%	2.0	7.3	0.41	170	18	30
		6%	3.5	7.4	0.96	170	18	31
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300
		2.5%	7.8	620	1.2	9,400	1,200	2,400
		6%	17.4	620	2.7	9,400	1,200	2,400
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26
		6%	0.14	6.6	2.2E-02	140	16	27
	Endosulfans (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15
		2.5%	0.2	3.8	3.2E-02	65	8.1	15
		6%	0.46	3.8	7.7E-02	65	8.1	16

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

All GAC are based on
sandy loam soils with a pH
7.

All GAC are based on sandy loam soils with a pH 7.			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}
		6%	2.4	2.4	32	290	14,000	2,900
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190
		6%	22	38	7.0	830	100	190
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100
		2.5%	2.0	150	0.30	4,000	620	1,100
		6%	4.5	210	0.70	4,300	620	1,100
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110
		2.5%	0.52	29	8.0E-02	400	60	120
		6%	1.2	31	0.19	400	60	120
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300
		2.5%	0.29	0.29	10	22	11,000	1,900
		6%	0.62	0.62	23	47	11,000	2,700
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48
		2.5%	0.7	0.78	0.61	66	25	50
		6%	1.6	1.8	1.4	120	25	51
	Phenol	1%	280	750	66	760 ^{dir} (31,000)	760 ^{dir} (11,000)	760 ^{dir} (8,600)
		2.5%	550	1,300	140	1,500 ^{dir} (35,000)	1,500 ^{dir} (11,000)	1,500 ^{dir} (9,700)
		6%	1,100	2,300	280	3,200 ^{dir} (37,000)	3,200 ^{dir} (11,000)	3,200 ^{dir} (11,000)

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^{dir} = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

^g = derived based on 2,3,4,6-tetrachlorophenol.

Appendix 14 : Selection of Progress Photographs



Figure 1 : Initial vegetation clearance adjacent to Needwood Close at commencement of site works



Figure 2 : Tree surgeons at work along the Thornton Street North boundary of the site



Figure 3 : Tree removal operations well progressed



Figure 4 : Felled timber stacked in anticipation of processing for biomass



Figure 5 : Chipper unit processing felled timber into biomass



Figure 6 : A forestry forwarder being used to collect and stockpile felled timber



Figure 7 : Root mass stockpile awaiting collection and disposal as green waste



Figure 8 : Site entrance retained existing gates until new perimeter fencing had been installed



Figure 9 : Japanese Knotweed identified amongst the standing timber



Figure 10 : Knotweed area delimited using orange mesh fencing, prior to controlled removal



Figure 11 : Excavator working from outside the knotweed quarantine boundary to sift the soils and remove remaining rhizomes



Figure 12 : Loading and export of knotweed-contaminated soils under supervision



Figure 13 : Archaeologists progressing investigative works near the junction of Pagest Street and Rochdale Road



Figure 14 : Relic foundations being exposed prior to removal



Figure 15 : Concrete obstruction encountered in close proximity to boundary fence and earthenware telecomms ducting



Figure 16 : Concrete pile cropped to specified level and surveyed prior to placement of re-engineered fill



Figure 17 : Relic slab being removed by excavator



Figure 18 : Blocks of relic foundations and slabs awaiting processing, segregated from adjacent stockpiles of suitable fill



Figure 19 : Large foundation blocks awaiting reduction in size prior to crushing



Figure 20 : Excavator using a hydraulic muncher to process oversize and stockpile the recovered reinforcement wire



Figure 21 : Hydraulic breaker in use to assist in the removal of a large buried mass concrete foundation



Figure 22 : Crusher in action with misting spray unit deployed to mitigate any potential dust emissions



Figure 23 : Screener being used to process excavated material prior to use as backfill



Figure 24 : Excavator maintaining the stockpile of site-produced crushed brick and concrete



Figure 25 : Segregated stockpiles of excavated materials, with fenced-off drainage manholes (to be retained)



Figure 26 : Stockpile of mixed soils and roots awaiting disposal off site (Needwood Close entrance)



Figure 27 : Pieces of asbestos cement pipe encountered during the works, bagged and awaiting collection by licenced contractor



Figure 28 : Loading of surplus fill material for disposal off site



Figure 29 : Aerial view looking south: surplus soils being loaded for disposal, imported crush being placed to pile mats



Figure 30 : Mechanical and manual maintenance of road pavement and footways during export operations



Figure 31 : GPS control of earthworks operations



Figure 32 : Excavation to natural ground along the Marston Street boundary (north)



Figure 33 : Dozer being used to cut steep batters to profile



Figure 34 : Handling of imported crush for pile mat construction



Figure 35 : Dozer in action to cut to design levels in north of site



Figure 36 : Compaction of suitable fill material in accordance with the specification



Figure 37 : Compaction of suitable fill material in accordance with the specification



Figure 38 : Compaction of suitable fill adjacent to Churnet Street existing sewer easement



Figure 39 : Compaction of suitable fill in accordance with the specification



Figure 40 : Diversion of four BT Openreach ducts adjacent to Rochdale Road



Figure 41 : Seven earthenware BT Openreach ducts located adjacent to Rochdale Road, not relocated



Figure 42 : Typical hand-dug excavation to locate and identify existing services on the site



Figure 43 : Washout hydrant used as termination for existing watermain entering site adjacent to Needwood Close gateway



Figure 44 : Excavated trench ready for diversion of water pipe along Shellard Road on southern boundary of the site



Figure 45 : Installation of water main diversion within Marston Street footpath at north of site



Figure 46 : Installed electricity duct within north footway of Paget Street (looking towards Burgess Street)



Figure 47 : Reinstatement of diversion trench to north footway of Paget Street



Figure 48 : Diversion of electricity cable across Thornton Street North



Figure 49 : Sampling of imported crush for geotechnical assessment



Figure 50 : Collection of bulk soils samples for laboratory analysis



Figure 51 : Sampling of stockpiled topsoil for laboratory analysis



Figure 52 : CBR testing underway using 25T excavator as kentledge



Figure 53 : CBR testing in progress



Figure 54 : Depth to natural being recorded with surveyor's staff as turnover works proceed



Figure 55 : Easement for BT Openreach fibre-optic fenced off during remediation works to avoid damage. The fibre-optic cable was finally removed in April 2022, after which LKR remobilised to site and completed remediation of the easement corridor



Figure 56 : Southern stockpile of tested subsoil (250m³)



Figure 57 : Southern stockpile of tested subsoil (270m³)



Figure 58 : Northern stockpile of tested subsoil (900m³)



Figure 59 : Northern stockpile of tested subsoil (850m³)



Figure 60 : Stockpile maintenance and final excavation to design levels underway adjacent to Paget Street



Figure 61 : Pile mat construction and export of surplus soils in northern part of site (backloading to reduce traffic movements)



Figure 62 : Completed pile mat to plots seen under construction in Figure 61 (above); stockpile of tested subsoil to right of frame



Figure 63 : Completed pile mats adjacent to Paget Street, looking towards Rochdale Road



Figure 64 : Completed pile mats in the north-west corner of the site, adjacent to Marston Street footpath



Figure 65 : Security fencing installed along Thornston Street North, with graded batter to adjacent pile mat



Figure 66 : Completed pile mats in north of site adjacent to Needwood Close access



Figure 67 : Works completed in the Park area, root protection fencing removed, topsoil stockpile adjacent to parking area, security bund across access gateway



Figure 68 : Looking southeast across the completed site, with remaining fibre-optic easement fenced in orange, and tested subsoil stockpiles fenced in green. Fibre-optic cable was removed in April 2022; LKR remobilised to site and completed remediation of the easement corridor



Figure 69 : Looking north from Rochdale Road across completed site, with remaining fibre-optic easement fenced in orange, and tested subsoil stockpiles fenced in green. Fibre-optic cable was removed in April 2022; LKR remobilised to site and completed remediation of the easement corridor



Figure 70 : Completed site seen from east looking towards Rochdale Road

Appendix 15 : Retained Certified Soils



Final Report

Report No.: 21-23312-1
Initial Date of Issue: 13-Jul-2021
Client LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Peter Dunn

Project LKR 201044 Collyhurst

Quotation No.: **Date Received:** 07-Jul-2021

Order No.: LKR 201044 **Date Instructed:** 07-Jul-2021

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 13-Jul-2021

Date Approved: 13-Jul-2021

Approved By:

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: LKR 201044 Collyhurst

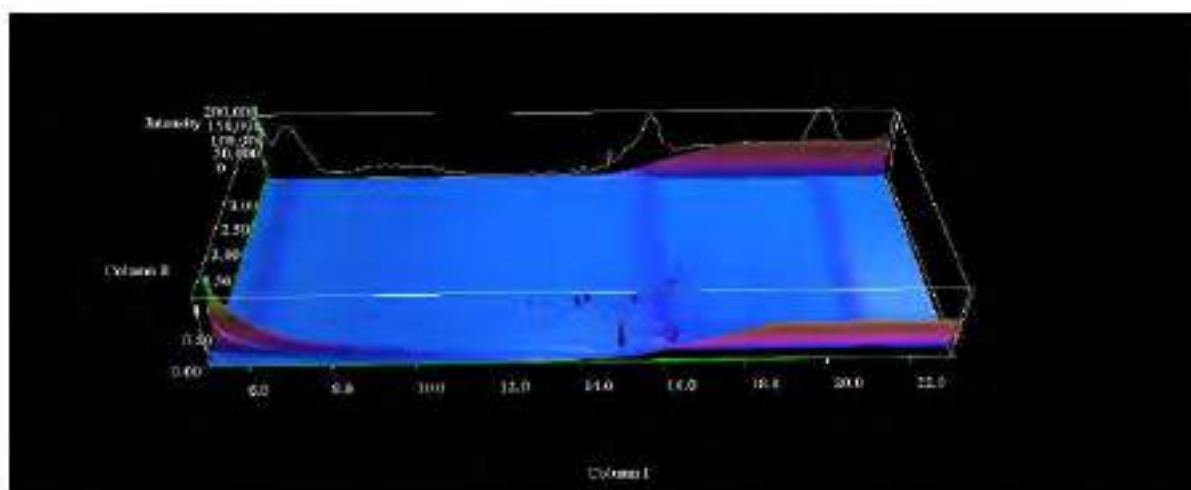
Client: LK Consult	Chemtest Job No.:				21-23312	21-23312	21-23312
Quotation No.:	Chemtest Sample ID.:				1235953	1235954	1235955
Order No.: LKR 201044	Client Sample Ref.:				TS01	TS02	TS03
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				05-Jul-2021	05-Jul-2021	05-Jul-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	24	27	24
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached
pH	M	2010		4.0	7.7	7.8	7.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	1.1	0.91	1.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.021	0.061	0.018
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	1.5	2.2	2.2
Arsenic	M	2450	mg/kg	1.0	21	19	23
Cadmium	M	2450	mg/kg	0.10	10	11	12
Chromium	M	2450	mg/kg	1.0	67	81	82
Copper	M	2450	mg/kg	0.50	120	120	130
Mercury	M	2450	mg/kg	0.10	4.5	4.9	5.7
Nickel	M	2450	mg/kg	0.50	26	25	28
Lead	M	2450	mg/kg	0.50	270	270	520
Selenium	M	2450	mg/kg	0.20	0.64	0.59	0.72
Vanadium	U	2450	mg/kg	5.0	26	24	29
Zinc	M	2450	mg/kg	0.50	220	230	270
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	13	9.1	9.1
Diesel Present	N	2670		N/A	False	False	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	56	< 1.0	86
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	56	< 5.0	86
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

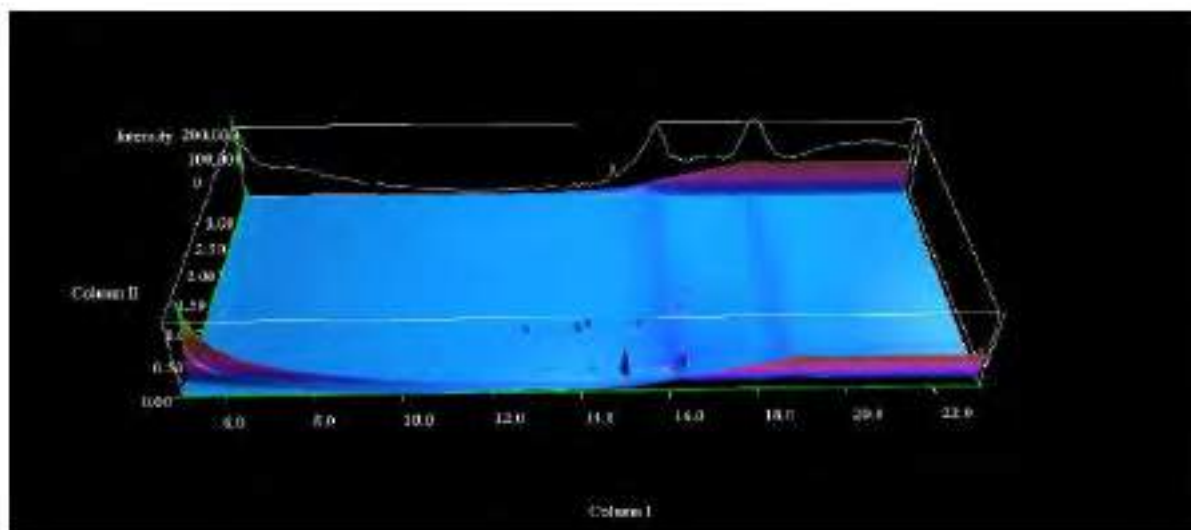
Project: LKR 201044 Collyhurst

Client: LK Consult	Chemtest Job No.:				21-23312	21-23312	21-23312
Quotation No.:	Chemtest Sample ID.:				1235953	1235954	1235955
Order No.: LKR 201044	Client Sample Ref.:				TS01	TS02	TS03
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				05-Jul-2021	05-Jul-2021	05-Jul-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	20
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	11	< 1.0	88
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	11	< 5.0	110
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	67	< 10	190
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	1.2	0.81	0.71
Acenaphthylene	N	2800	mg/kg	0.10	0.30	0.30	0.18
Acenaphthene	M	2800	mg/kg	0.10	0.42	0.50	0.85
Fluorene	M	2800	mg/kg	0.10	0.38	0.46	0.54
Phenanthrene	M	2800	mg/kg	0.10	3.6	4.6	4.2
Anthracene	M	2800	mg/kg	0.10	0.78	0.91	0.98
Fluoranthene	M	2800	mg/kg	0.10	5.9	7.5	0.60
Pyrene	M	2800	mg/kg	0.10	5.6	6.7	5.6
Benzo[a]anthracene	M	2800	mg/kg	0.10	2.7	3.2	2.8
Chrysene	M	2800	mg/kg	0.10	2.9	3.3	2.6
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	3.6	4.1	3.4
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	1.4	1.5	1.3
Benzo[a]pyrene	M	2800	mg/kg	0.10	3.3	3.9	3.4
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	2.1	2.4	2.0
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.57	0.32	0.40
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	2.0	2.5	2.1
Total Of 16 PAH's	N	2800	mg/kg	2.0	37	43	32
Total Phenols	M	2920	mg/kg	0.10	< 0.10	0.13	< 0.10

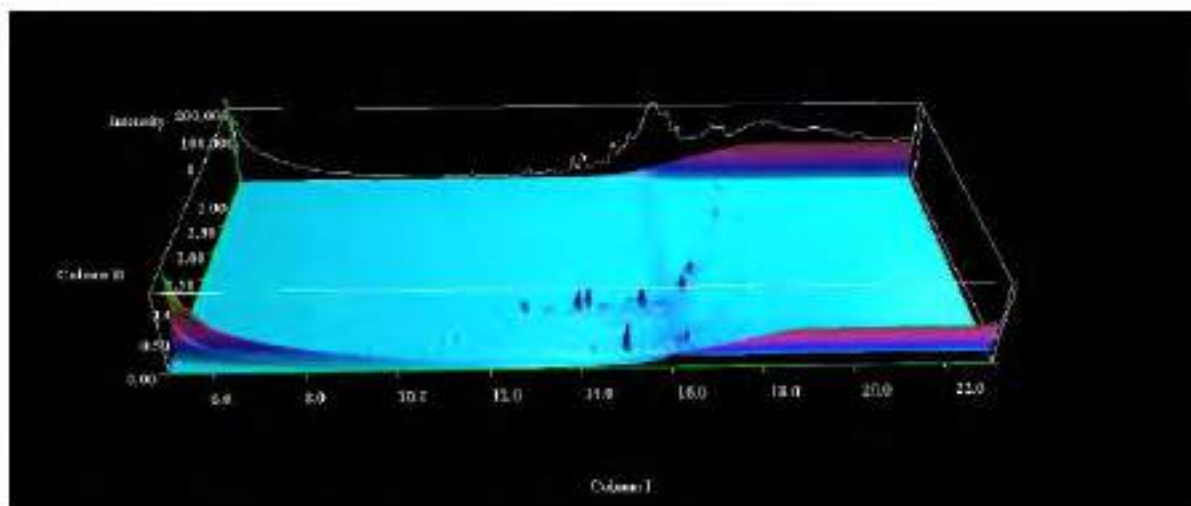
TPH Chromatogram on Soil Sample: 1235953



TPH Chromatogram on Soil Sample: 1235954



TPH Chromatogram on Soil Sample: 1235955



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
21-23312	1235953	S		TS01			No	PAH
21-23312	1235954	S		TS02			No	N/A
21-23312	1235955	S		TS03			No	PAH

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 21-30471-1

Initial Date of Issue: 10-Sep-2021

Client LK Consult

Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Contaminated Land
Peter Dunn

Project LKR201044 Collyhurst

Quotation No.: **Date Received:** 03-Sep-2021

Order No.: LKR201044/PD **Date Instructed:** 03-Sep-2021

No. of Samples: 6

Turnaround (Wkdays): 5 **Results Due:** 09-Sep-2021

Date Approved: 10-Sep-2021

Approved By:


Details: Glynn Harvey, Technical Manager

Results - Soil

Project: LKR201044 Collyhurst

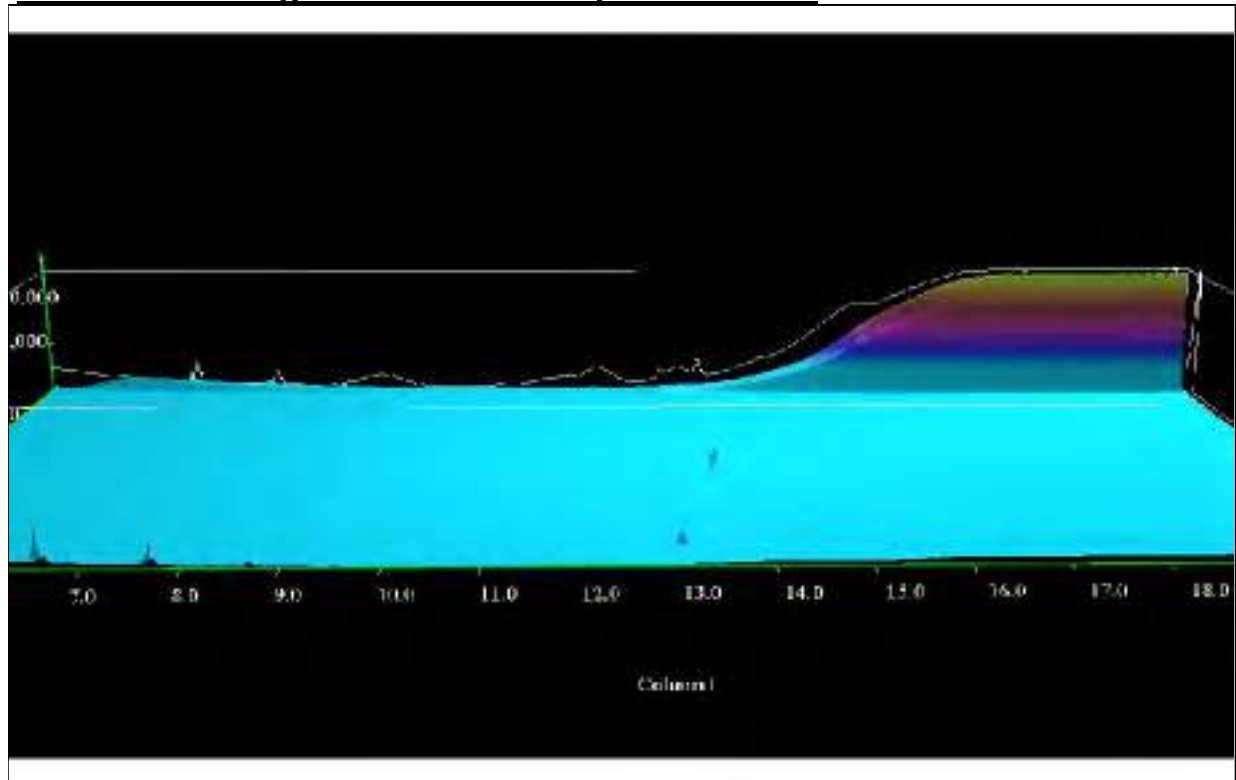
Client: LK Consult	Chemtest Job No.:				21-30471	21-30471	21-30471	21-30471	21-30471	21-30471
Quotation No.:	Chemtest Sample ID.:				1271932	1271933	1271934	1271935	1271936	1271937
	Sample Location:				SS101	SS102	SS103	SS104	SS105	SS106
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	7.6	6.0	13	13	13	14
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones and Roots	Stones and Roots	Stones	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		4.0	8.7	8.6	8.6	8.5	8.5	8.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	0.43	< 0.40	0.49
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.017	< 0.010	0.014	0.016	< 0.010	0.019
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	9.2	5.8	7.9	12	12	5.9
Cadmium	M	2450	mg/kg	0.10	0.16	0.12	0.32	0.38	0.44	0.20
Chromium	M	2450	mg/kg	1.0	24	18	19	23	22	15
Copper	M	2450	mg/kg	0.50	24	17	23	34	47	30
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	0.17	0.31	0.47	0.11
Nickel	M	2450	mg/kg	0.50	34	25	25	29	27	20
Lead	M	2450	mg/kg	0.50	23	18	46	86	100	33
Selenium	M	2450	mg/kg	0.20	0.20	< 0.20	< 0.20	0.20	0.30	< 0.20
Vanadium	U	2450	mg/kg	5.0	25	17	18	23	23	15
Zinc	M	2450	mg/kg	0.50	62	44	72	81	76	56
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.0	2.5	2.4	3.4	5.6	2.4
Diesel Present	N	2670		N/A	False	False	False	False	False	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	9.7	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	9.7	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

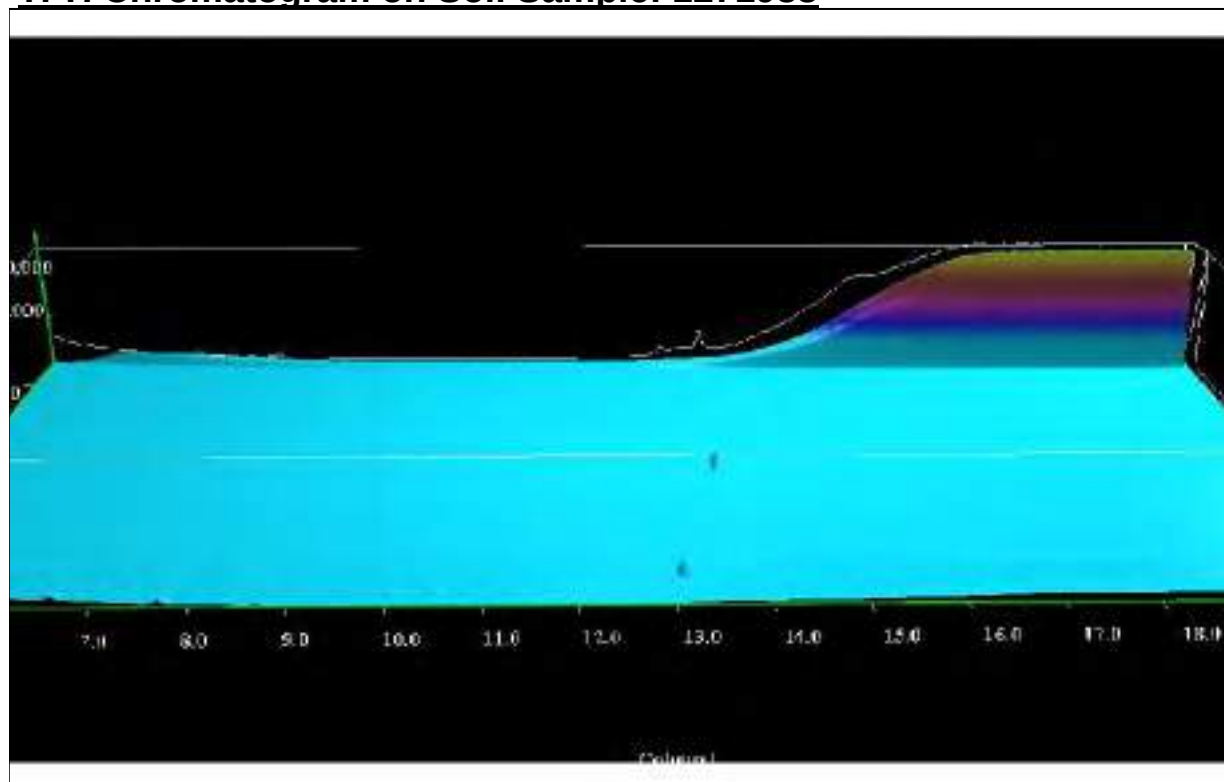
Project: LKR201044 Collyhurst

Client: LK Consult	Chemtest Job No.:					21-30471	21-30471	21-30471	21-30471	21-30471	21-30471
Quotation No.:	Chemtest Sample ID.:					1271932	1271933	1271934	1271935	1271936	1271937
	Sample Location:					SS101	SS102	SS103	SS104	SS105	SS106
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:					01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021	01-Sep-2021
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	34	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	170	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	200	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	210	< 10	< 10	< 10	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.23	0.74	0.36	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	0.36	0.11	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	1.4	0.28	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	1.6	0.56	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.55	0.61	1.5	10	2.7	1.7	1.7
Anthracene	M	2800	mg/kg	0.10	0.18	0.21	0.43	2.6	0.74	0.45	0.45
Fluoranthene	M	2800	mg/kg	0.10	0.54	0.41	1.8	9.1	3.6	2.2	2.2
Pyrene	M	2800	mg/kg	0.10	0.50	0.47	1.8	9.0	3.4	1.9	1.9
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.39	0.65	1.0	3.8	1.6	1.3	1.3
Chrysene	M	2800	mg/kg	0.10	0.54	0.62	0.88	3.8	1.4	0.89	0.89
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.67	0.35	1.3	3.8	2.0	1.6	1.6
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.48	0.17	0.44	1.3	0.54	0.66	0.66
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.50	0.26	0.83	2.9	1.5	1.1	1.1
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.40	< 0.10	0.69	2.2	1.5	0.84	0.84
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.25	< 0.10	0.39	0.42	0.32	0.47	0.47
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.24	< 0.10	0.75	1.9	0.94	0.49	0.49
Total Of 16 PAH's	N	2800	mg/kg	2.0	5.2	3.8	13	55	22	14	14
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

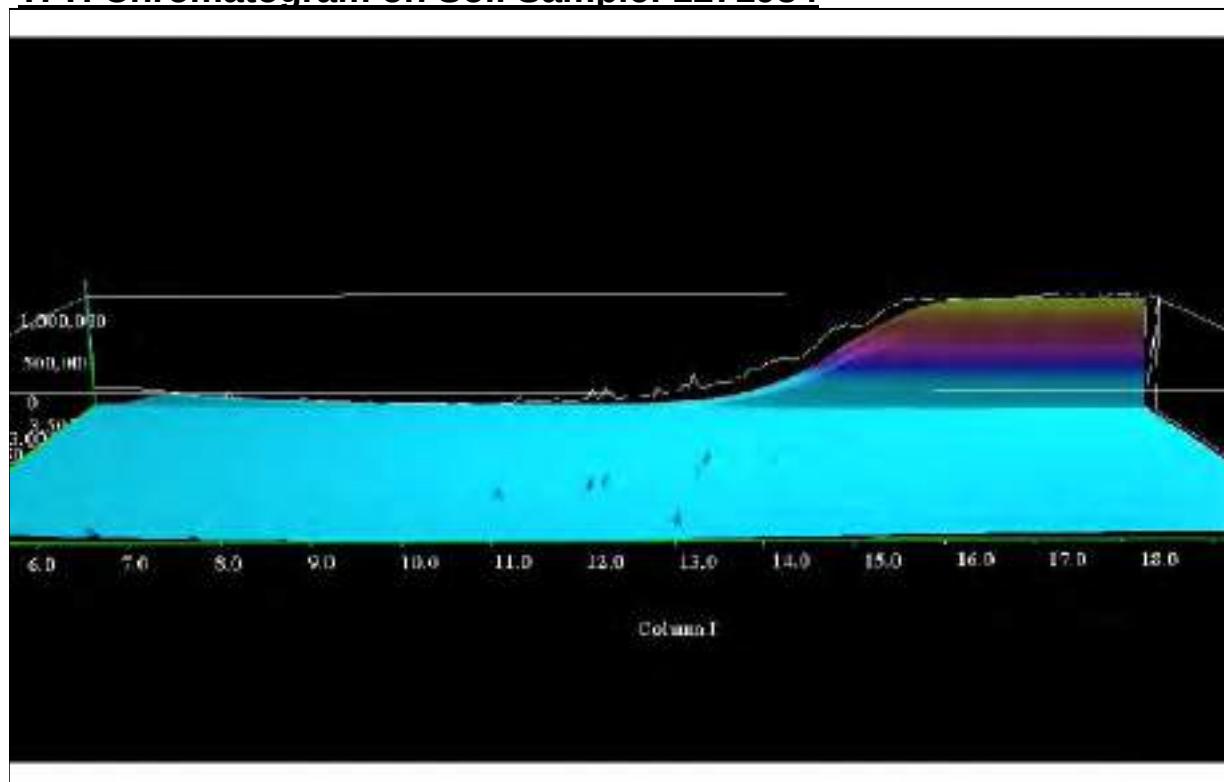
TPH Chromatogram on Soil Sample: 1271932



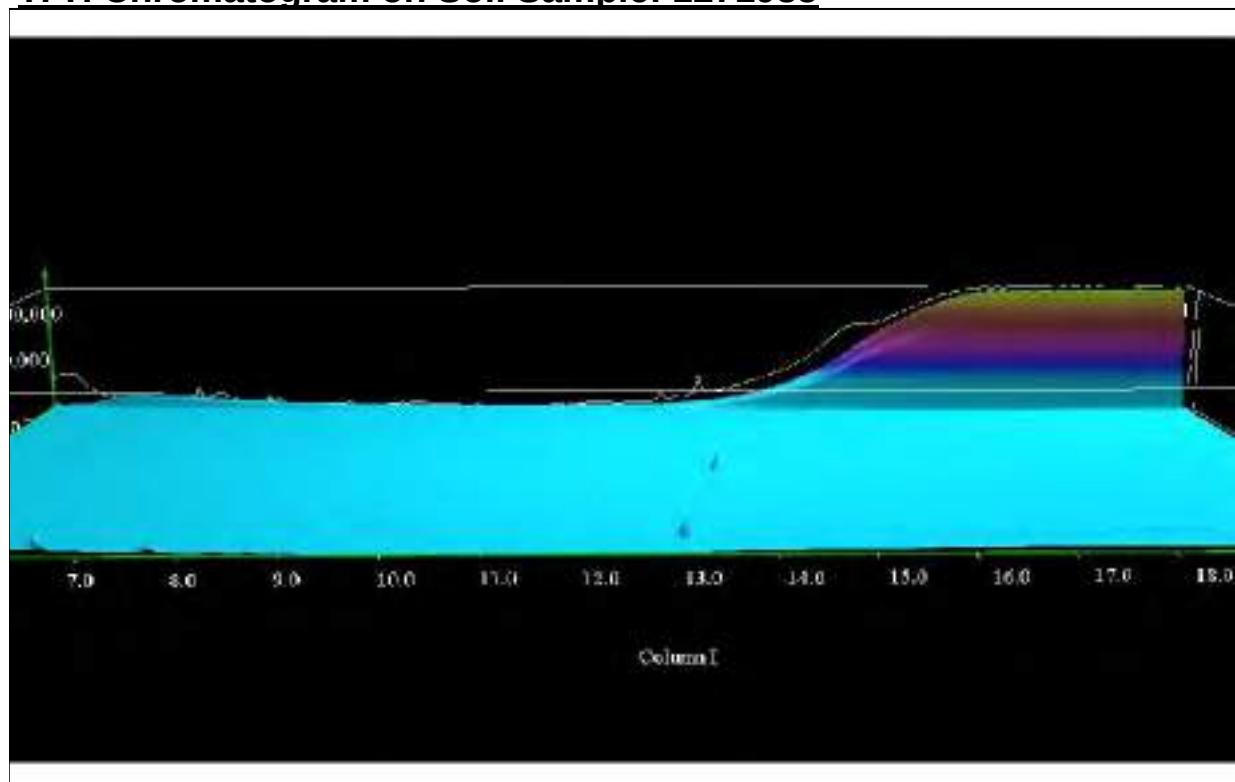
TPH Chromatogram on Soil Sample: 1271933



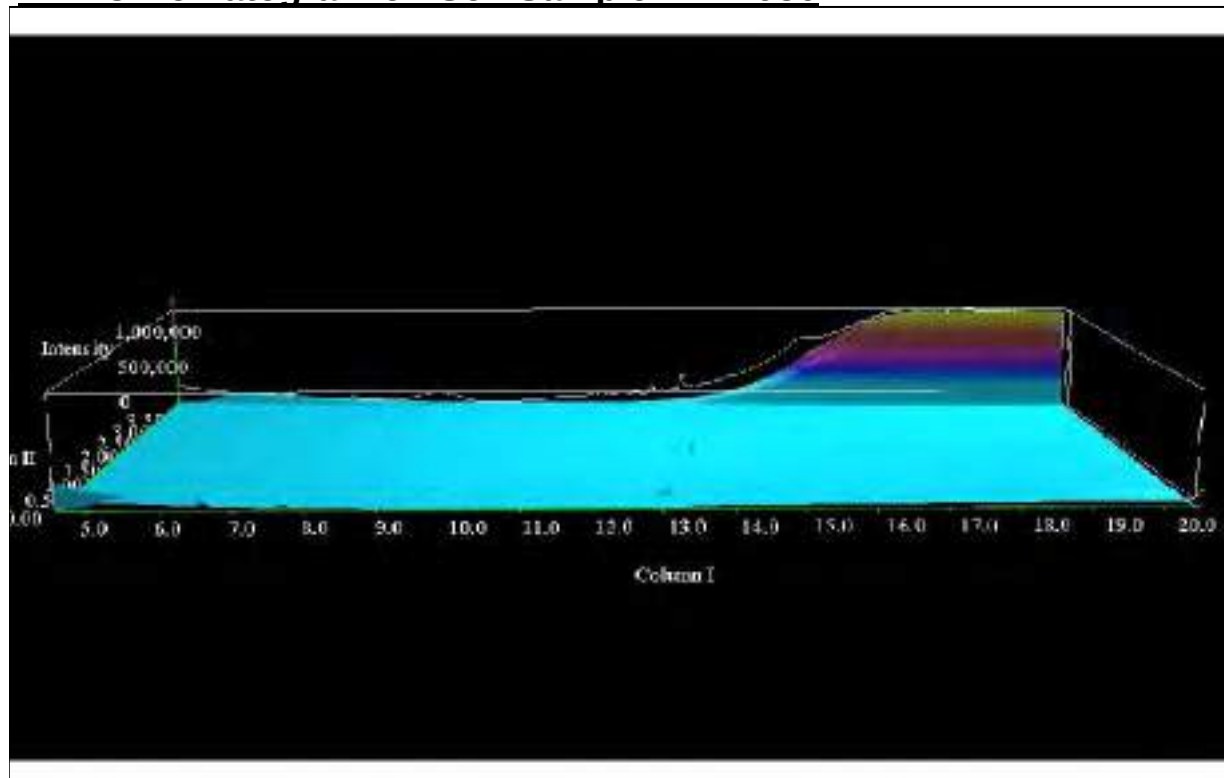
TPH Chromatogram on Soil Sample: 1271934



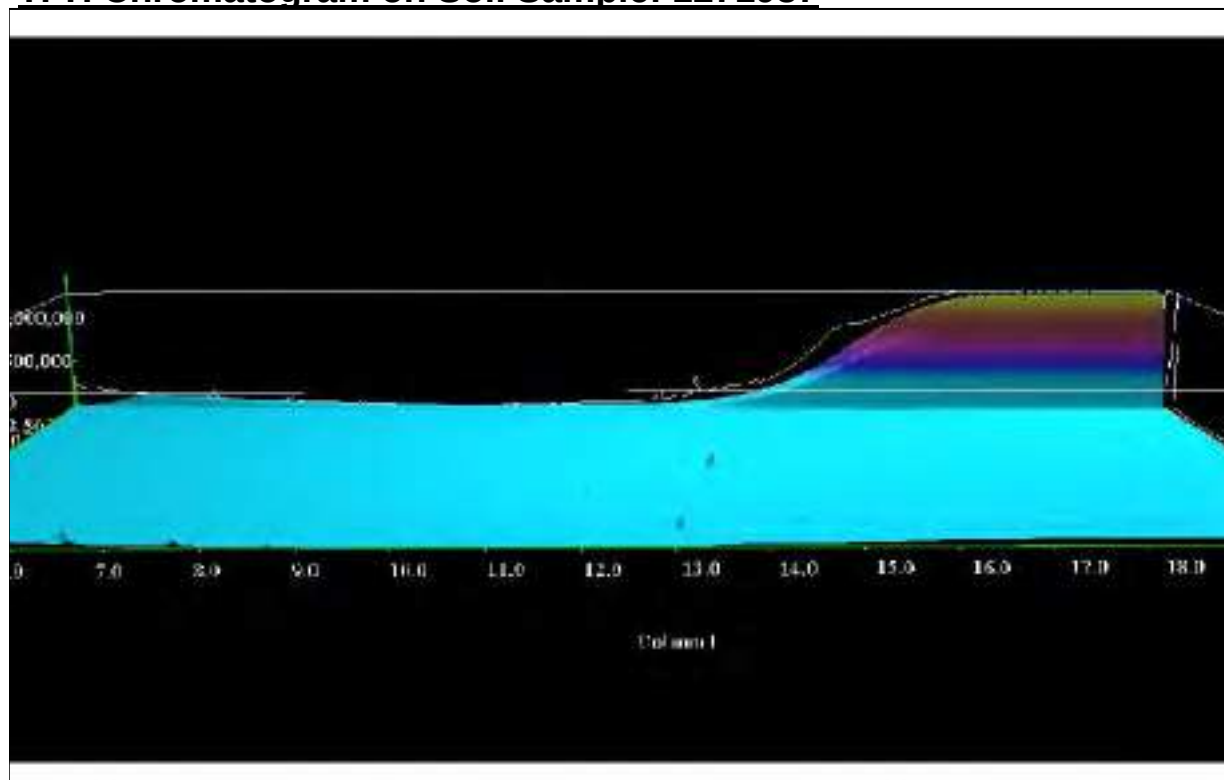
TPH Chromatogram on Soil Sample: 1271935



TPH Chromatogram on Soil Sample: 1271936



TPH Chromatogram on Soil Sample: 1271937



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
21-30471	1271932	S	SS101				No	N/A
21-30471	1271933	S	SS102				No	N/A
21-30471	1271934	S	SS103				No	PAH
21-30471	1271935	S	SS104				No	N/A
21-30471	1271936	S	SS105				No	N/A
21-30471	1271937	S	SS106				No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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M	MCERTS and UKAS accredited
N	Unaccredited
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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
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<	"less than"
>	"greater than"
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LOD	Limit of detection

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Sample Deviation Codes

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customerservices@chemtest.com



Final Report

Report No.: 21-42230-1

Initial Date of Issue: 07-Dec-2021

Client LK Consult

Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Peter Dunn
Richard Clarke

Project LKR 20 1044 Collyhurst

Quotation No.: **Date Received:** 01-Dec-2021

Order No.: LKR201044/RC **Date Instructed:** 01-Dec-2021

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 07-Dec-2021

Date Approved: 07-Dec-2021

Approved By:


Details: Glynn Harvey, Technical Manager

Results - Soil

Project: LKR 20 1044 Collyhurst

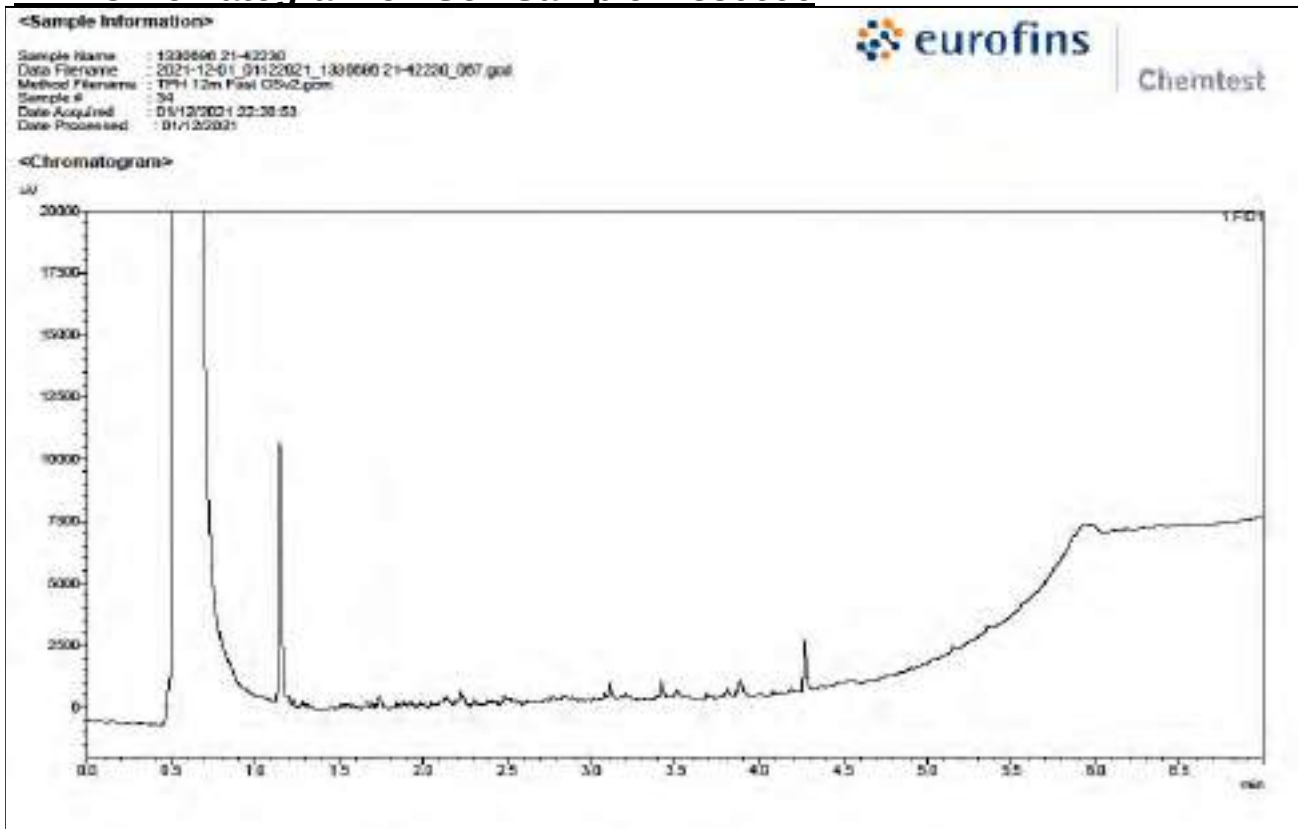
Client: LK Consult	Chemtest Job No.:				21-42230	21-42230	21-42230	21-42230
Quotation No.:	Chemtest Sample ID.:				1330696	1330697	1330698	1330699
Order No.: LKR201044/RC	Client Sample Ref.:				SS107	SS108	SS109	SS110
	Sample Location:				SP	SP	SP	SP
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Date Sampled:				30-Nov-2021	30-Nov-2021	30-Nov-2021	30-Nov-2021
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	17	18	16	18
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached
pH	M	2010		4.0	9.0	9.0	9.0	8.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	9.1	7.2	5.6	8.6
Cadmium	M	2450	mg/kg	0.10	0.37	0.34	0.25	0.32
Chromium	M	2450	mg/kg	1.0	32	27	18	27
Copper	M	2450	mg/kg	0.50	34	26	11	16
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	40	33	26	36
Lead	M	2450	mg/kg	0.50	35	21	21	33
Selenium	M	2450	mg/kg	0.20	0.23	< 0.20	0.38	0.64
Vanadium	U	2450	mg/kg	5.0	33	28	18	27
Zinc	M	2450	mg/kg	0.50	76	71	45	60
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.9	1.6	1.6	1.4
Diesel Present	N	2670		N/A	False	False	False	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

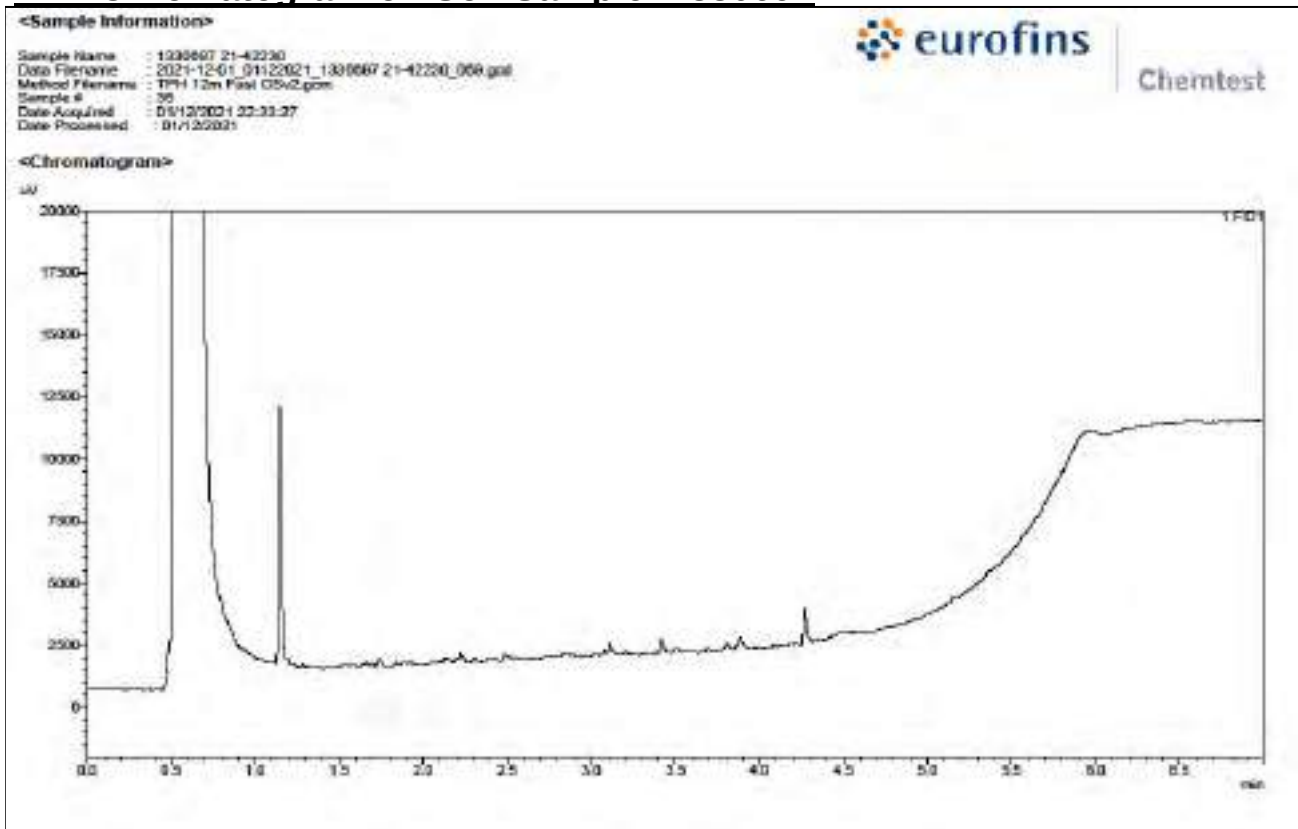
Project: LKR 20 1044 Collyhurst

Client: LK Consult	Chemtest Job No.:				21-42230	21-42230	21-42230	21-42230
Quotation No.:	Chemtest Sample ID.:				1330696	1330697	1330698	1330699
Order No.: LKR201044/RC	Client Sample Ref.:				SS107	SS108	SS109	SS110
	Sample Location:				SP	SP	SP	SP
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Date Sampled:				30-Nov-2021	30-Nov-2021	30-Nov-2021	30-Nov-2021
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	0.19	< 0.10	< 0.10	0.14
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.13	< 0.10	< 0.10	0.12
Fluorene	M	2800	mg/kg	0.10	0.20	< 0.10	< 0.10	0.11
Phenanthrene	M	2800	mg/kg	0.10	0.70	0.46	0.65	0.43
Anthracene	M	2800	mg/kg	0.10	0.26	0.20	0.14	0.14
Fluoranthene	M	2800	mg/kg	0.10	0.71	0.48	0.79	0.52
Pyrene	M	2800	mg/kg	0.10	0.65	0.51	0.69	0.53
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.42	< 0.10	0.31	0.24
Chrysene	M	2800	mg/kg	0.10	0.42	< 0.10	0.27	0.29
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.29	< 0.10	0.32	0.25
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.32	< 0.10	0.13	0.13
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.45	< 0.10	0.23	0.26
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.46	< 0.10	< 0.10	0.27
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.35	< 0.10	< 0.10	0.30
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.42	< 0.10	< 0.10	0.27
Total Of 16 PAH's	N	2800	mg/kg	2.0	6.0	< 2.0	3.5	4.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

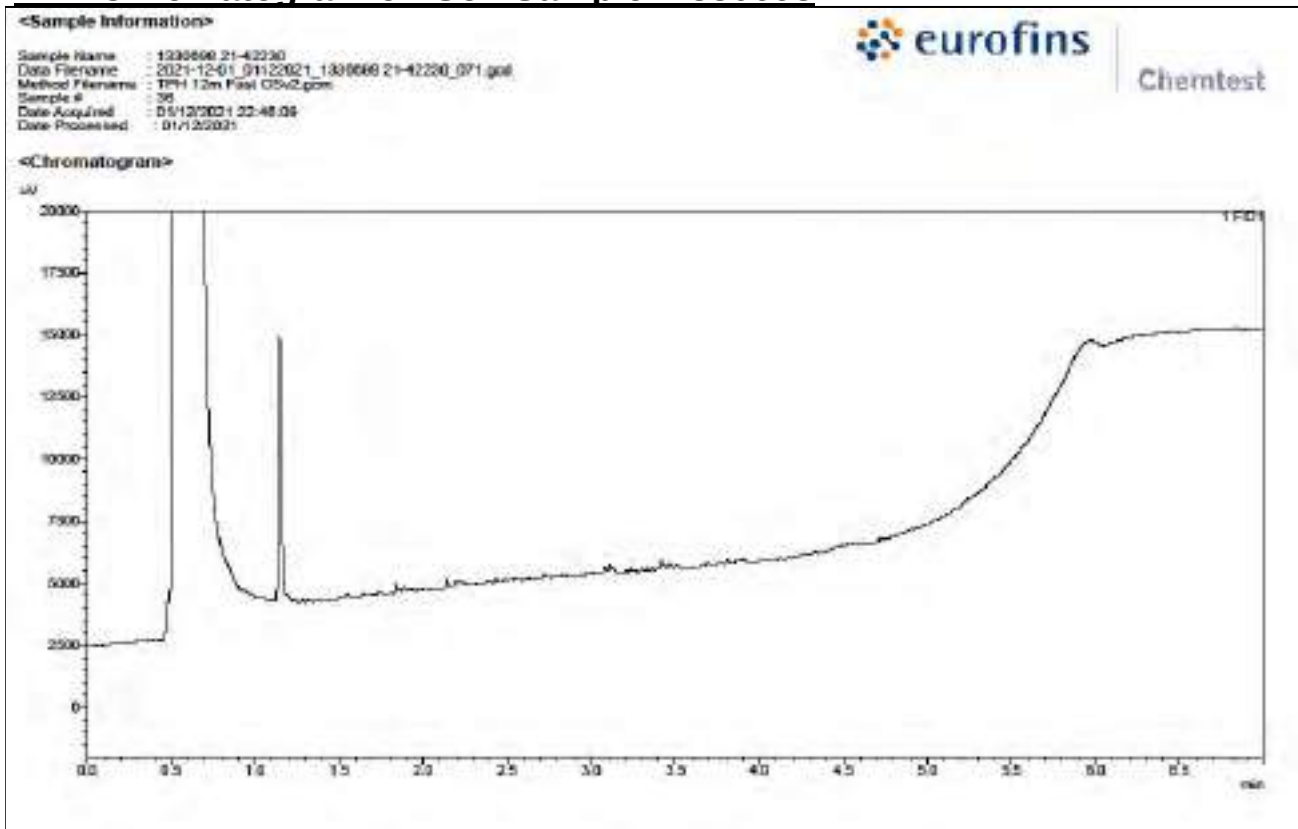
TPH Chromatogram on Soil Sample: 1330696



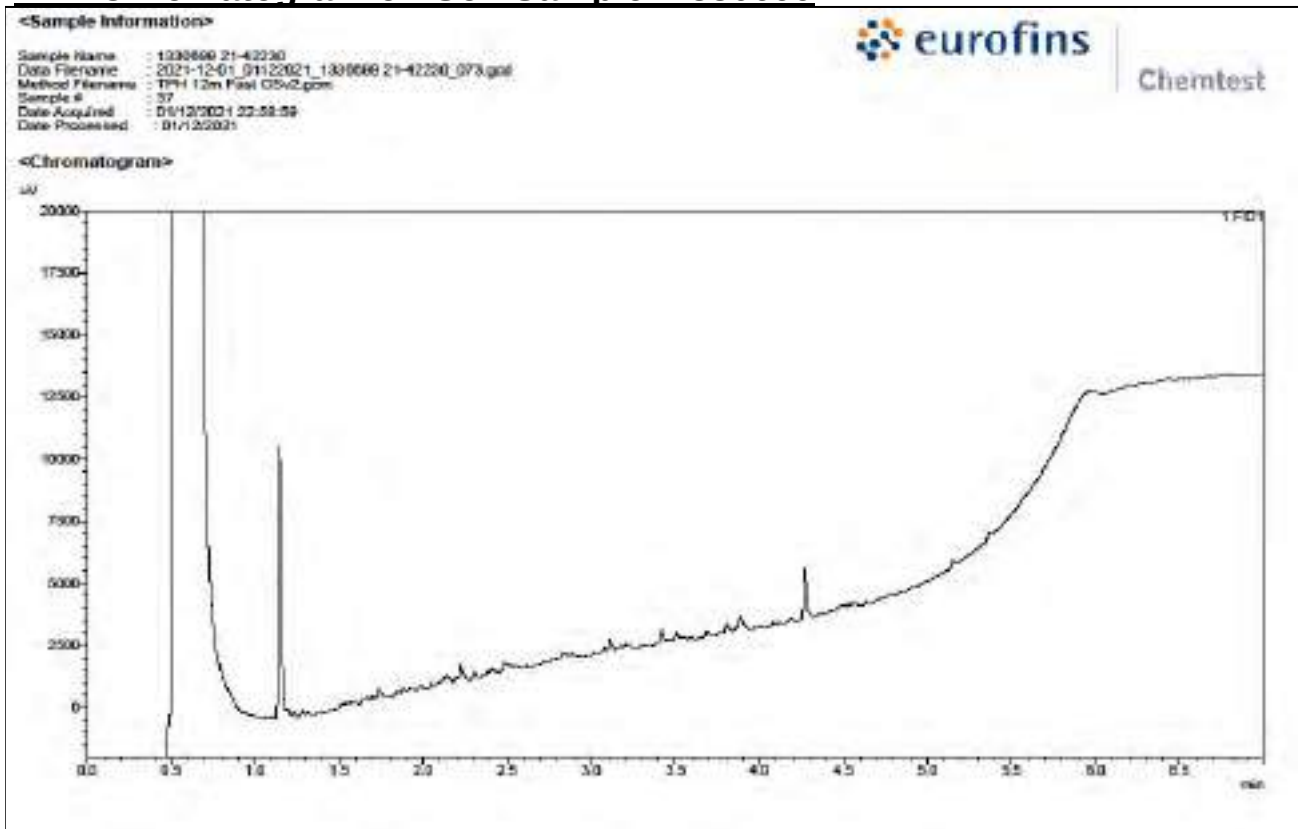
TPH Chromatogram on Soil Sample: 1330697



TPH Chromatogram on Soil Sample: 1330698



TPH Chromatogram on Soil Sample: 1330699



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
21-42230	1330696	S	SP	SS107			No	N/A
21-42230	1330697	S	SP	SS108			No	N/A
21-42230	1330698	S	SP	SS109			No	N/A
21-42230	1330699	S	SP	SS110			No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 22-06489-1
Initial Date of Issue: 25-Feb-2022
Client LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Richard Clarke

Project LKR 20 1044 Collyhurst

Quotation No.: **Date Received:** 22-Feb-2022

Order No.: LKR 201044/RC **Date Instructed:** 22-Feb-2022

No. of Samples: 8

Turnaround (Wkdays): 5 **Results Due:** 28-Feb-2022

Date Approved: 25-Feb-2022

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: LKR 20 1044 Collyhurst

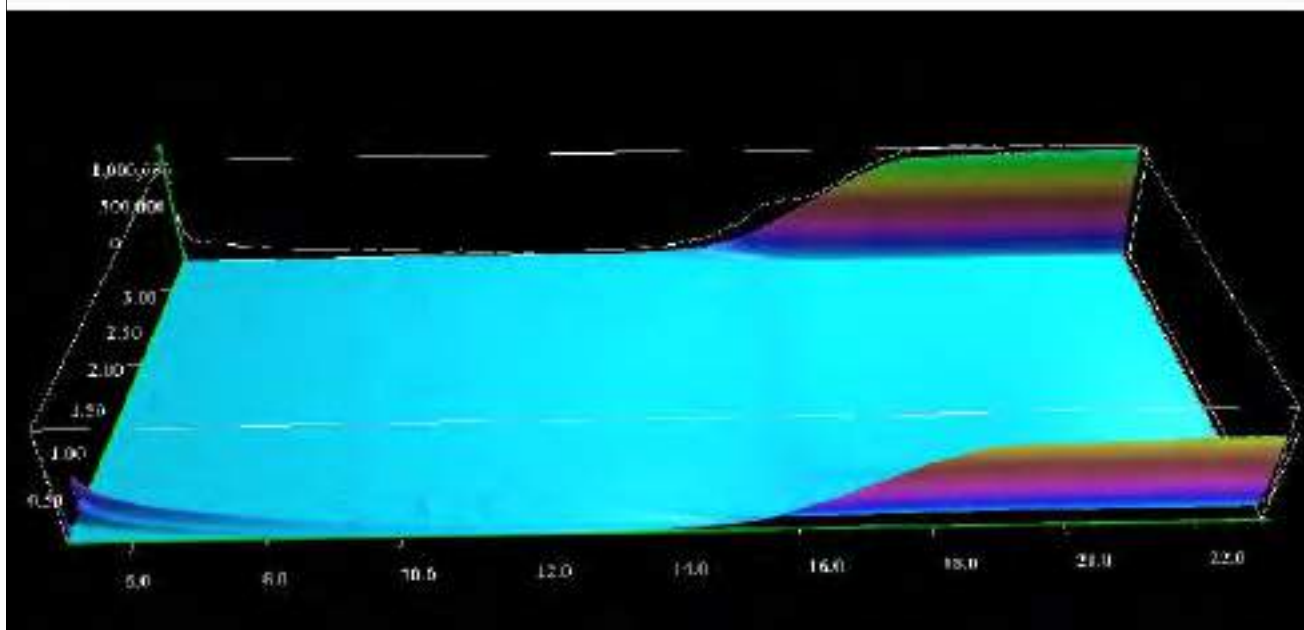
Client: LK Consult	Chemtest Job No.:		22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489
Quotation No.:	Chemtest Sample ID.:		1376696	1376697	1376698	1376699	1376700	1376701	1376702	1376703		
Order No.: LKR 201044/RC	Client Sample Ref.:		SS111	SS112	SS113	SS114	SS115	SS116	SS117	SS118		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Date Sampled:		21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022		
	Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB		
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	23	21	22	22	23	26	24	25
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	None	None	None	None	None	None	None
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
pH	M	2010		4.0	8.8	8.6	8.7	8.7	8.7	8.6	8.7	8.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	5.9	0.42	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	1.5
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.53	0.055	0.15	0.041	0.037	0.046	0.047	0.28
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	6.2	3.7	2.5	5.6	4.7	4.7	7.0	5.0
Cadmium	M	2450	mg/kg	0.10	0.10	0.14	< 0.10	0.11	0.10	0.15	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	22	16	11	25	22	25	22	17
Copper	M	2450	mg/kg	0.50	21	15	10	21	19	23	16	16
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14	< 0.10
Nickel	M	2450	mg/kg	0.50	30	22	15	34	30	33	26	24
Lead	M	2450	mg/kg	0.50	11	8.2	6.4	10	9.3	10	30	7.7
Selenium	M	2450	mg/kg	0.20	< 0.20	0.21	< 0.20	< 0.20	< 0.20	0.26	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	22	15	9.8	23	19	23	22	17
Zinc	M	2450	mg/kg	0.50	47	36	24	51	45	49	85	36
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	3.1	1.7	2.2	1.4	2.1	1.6	1.7	2.1
Diesel Present	N	2670		N/A	False	False	False	False	False	False	False	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

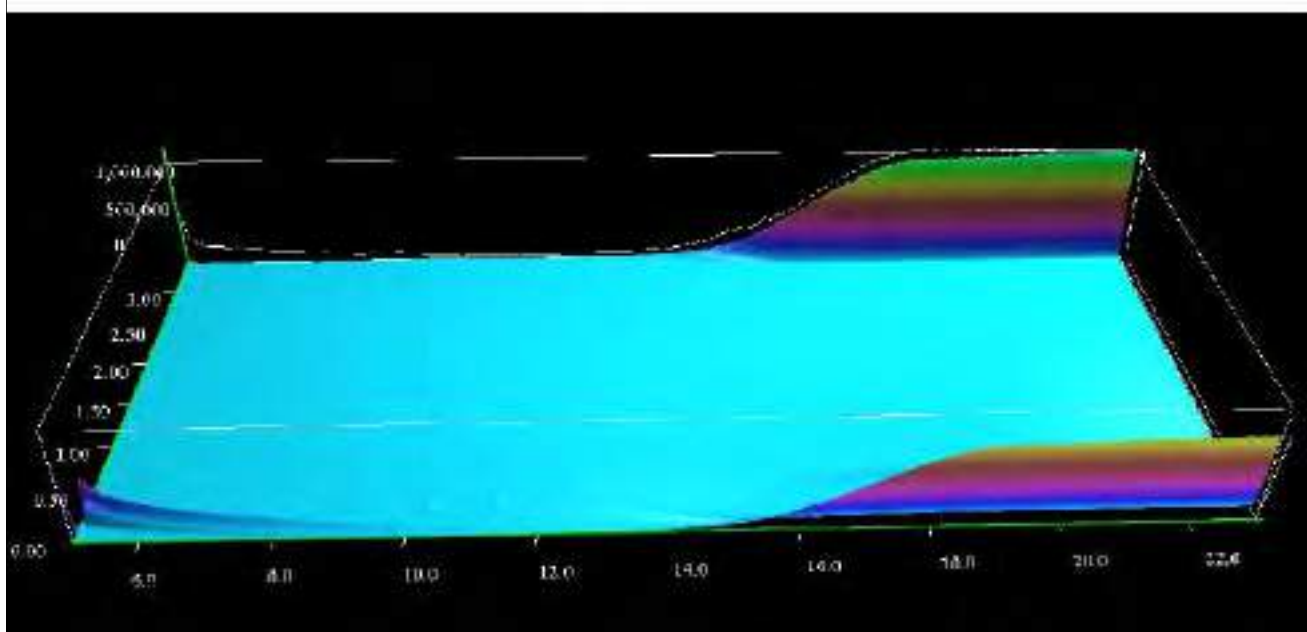
Project: LKR 20 1044 Collyhurst

Client: LK Consult	Chemtest Job No.:		22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489	22-06489
Quotation No.:	Chemtest Sample ID.:		1376696	1376697	1376698	1376699	1376700	1376701	1376702	1376703		
Order No.: LKR 201044/RC	Client Sample Ref.:		SS111	SS112	SS113	SS114	SS115	SS116	SS117	SS118		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Date Sampled:		21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022	21-Feb-2022		
	Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB		
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	130	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	130	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	130	< 10	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.78
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Fluoranthene	M	2800	mg/kg	0.10	0.18	< 0.10	0.47	< 0.10	< 0.10	< 0.10	0.32	0.80
Pyrene	M	2800	mg/kg	0.10	0.22	< 0.10	0.49	< 0.10	< 0.10	< 0.10	0.33	0.96
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.33
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.18	0.52
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.6
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

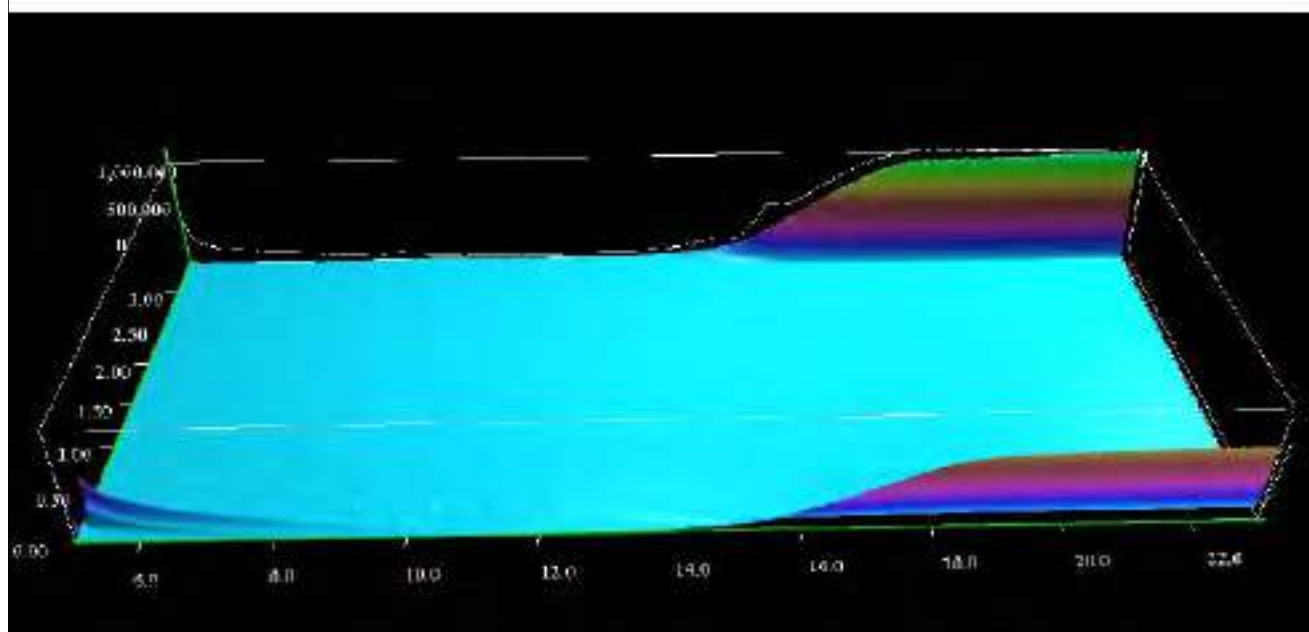
TPH Chromatogram on Soil Sample: 1376696



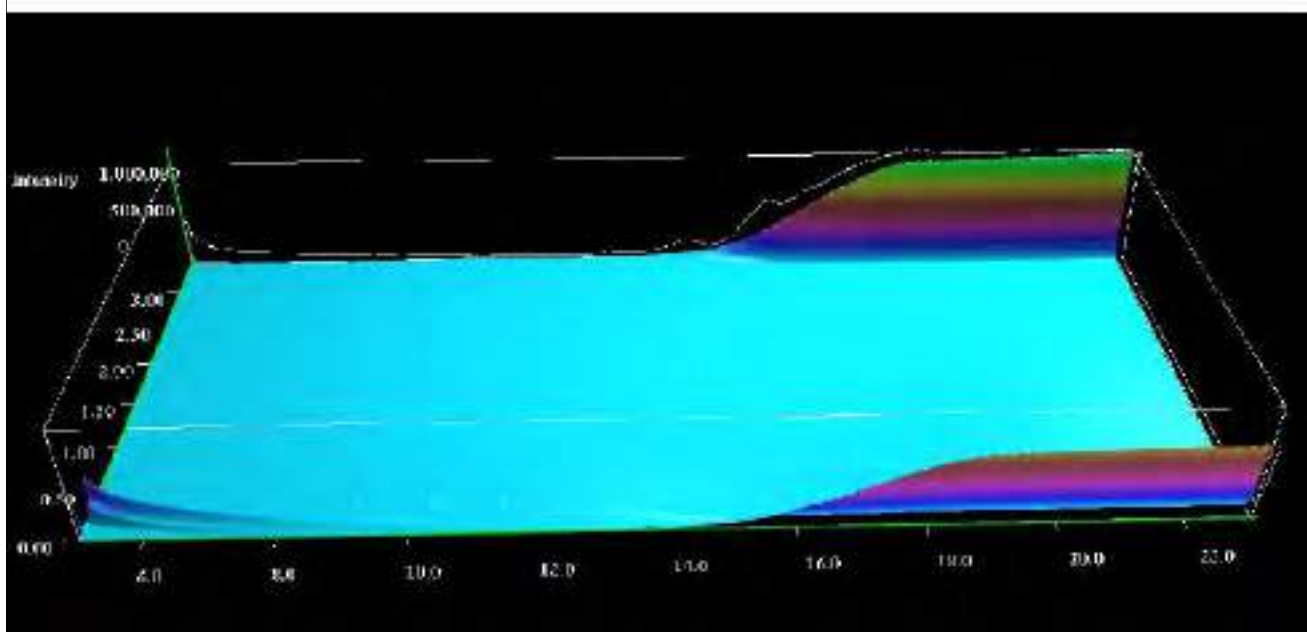
TPH Chromatogram on Soil Sample: 1376697



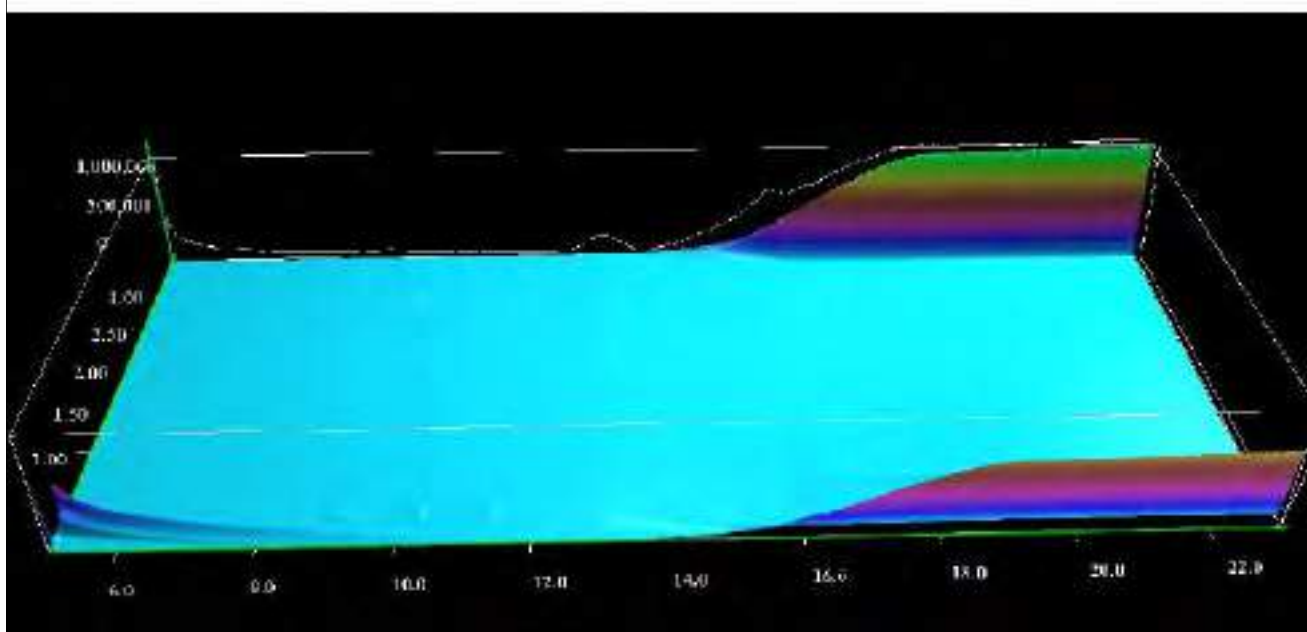
TPH Chromatogram on Soil Sample: 1376698



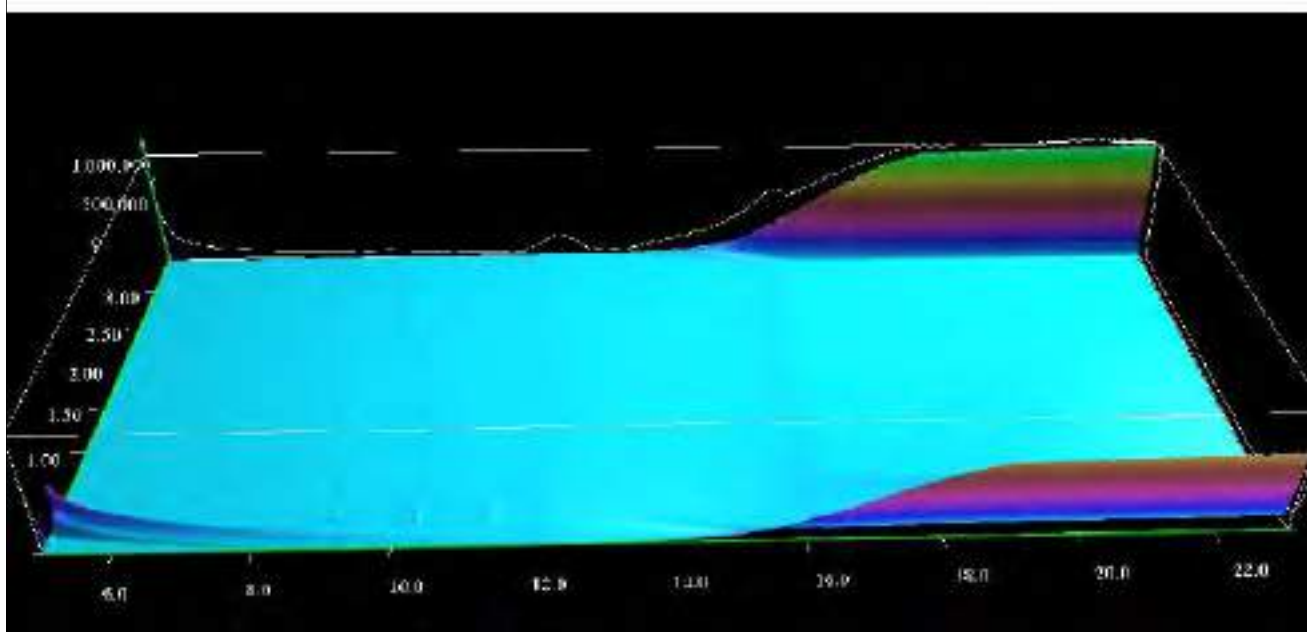
TPH Chromatogram on Soil Sample: 1376699



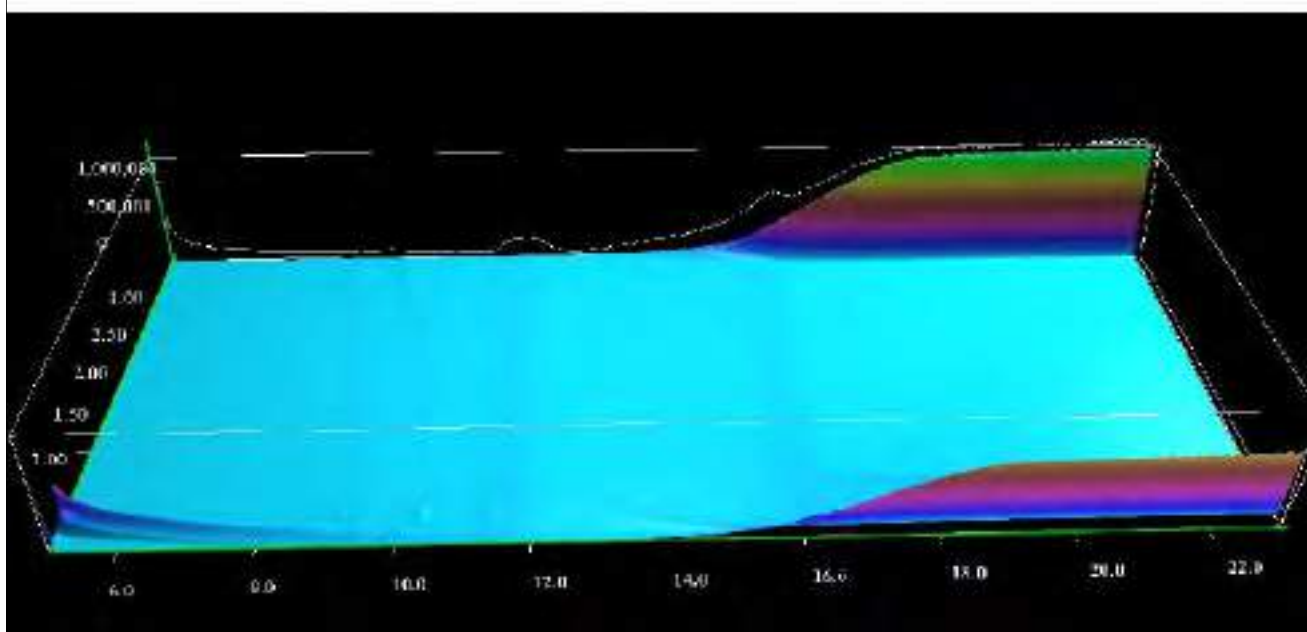
TPH Chromatogram on Soil Sample: 1376700



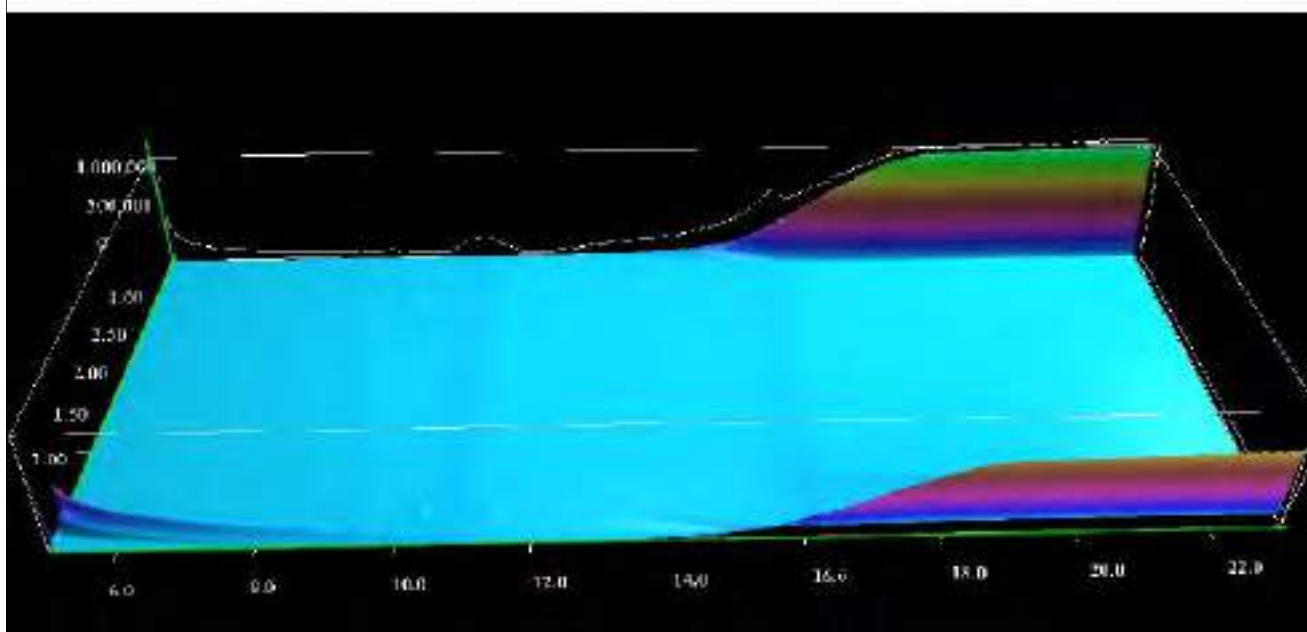
TPH Chromatogram on Soil Sample: 1376701



TPH Chromatogram on Soil Sample: 1376702



TPH Chromatogram on Soil Sample: 1376703



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
22-06489	1376696	S		SS111			No	N/A
22-06489	1376697	S		SS112			No	N/A
22-06489	1376698	S		SS113			No	N/A
22-06489	1376699	S		SS114			No	N/A
22-06489	1376700	S		SS115			No	N/A
22-06489	1376701	S		SS116			No	N/A
22-06489	1376702	S		SS117			No	N/A
22-06489	1376703	S		SS118			No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

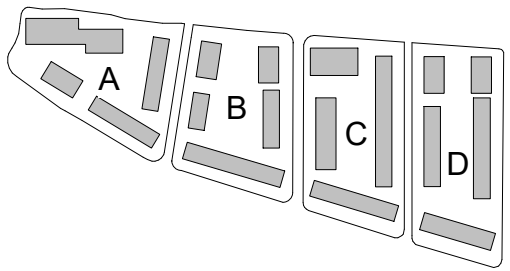
customerservices@chemtest.com





		Client Sample ID.:	TS01	TS02	TS03	
SCREENING SCENARIO	POSresi (1% SOM)	Report No:	21-23312	21-23312	21-23312	
		Top Depth (m):				
		Bottom Depth (m):				
	Determinand	Units	GAC			
ASBESTOS	Asbestos Identification	mg/kg		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
NON_METALS	Sulphate (2:1 Water Soluble) as SO4	g/l		0.021	0.061	0.018
	Cyanide (Free)	mg/kg		< 0.50	< 0.50	< 0.50
	Cyanide (Total)	mg/kg		1.5	2.2	2.2
METALS	Arsenic	mg/kg	79.0	21	19	23
	Cadmium	mg/kg	220.0	10	11	12
	Chromium	mg/kg	1500.0	67	81	82
	Copper	mg/kg	12000.0	120	120	130
	Mercury	mg/kg	16.0	4.5	4.9	5.7
	Nickel	mg/kg	230.0	26	25	28
	Lead	mg/kg	630.0	270	270	520
	Selenium	mg/kg	1100.0	0.64	0.59	0.72
	Vanadium	mg/kg	2000.0	26	24	29
	Zinc	mg/kg	81000.0	220	230	270
	Chromium (Hexavalent)	mg/kg	21.0	< 0.50	< 0.50	< 0.50
		Organic Matter	mg/l		13	9.1
TPH	Aliphatic TPH >C5-C6	mg/kg	570000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C6-C8	mg/kg	600000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C8-C10	mg/kg	13000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C10-C12	mg/kg	13000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C12-C16	mg/kg	13000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C16-C21	mg/kg	250000.0	< 1.0	< 1.0	< 1.0
	Aliphatic TPH >C21-C35	mg/kg	250000.0	56	< 1.0	86
	Aliphatic TPH >C35-C44	mg/kg	250000.0	< 1.0	< 1.0	< 1.0
	Total Aliphatic Hydrocarbons	mg/kg		56	< 5.0	86
	Aromatic TPH >C5-C7	mg/kg	56000.0	< 1.0	< 1.0	< 1.0
	Aromatic TPH >C7-C8	N/A	56000.0	< 1.0	< 1.0	< 1.0
	Aromatic TPH >C8-C10	mg/kg	5000.0	< 1.0	< 1.0	< 1.0
	Aromatic TPH >C10-C12	mg/kg	5000.0	< 1.0	< 1.0	< 1.0
	Aromatic TPH >C12-C16	mg/kg	5100.0	< 1.0	< 1.0	< 1.0
	Aromatic TPH >C16-C21	mg/kg	3800.0	< 1.0	< 1.0	20
	Aromatic TPH >C21-C35	mg/kg	3800.0	11	< 1.0	88
	Aromatic TPH >C35-C44	mg/kg	3800.0	< 1.0	< 1.0	< 1.0
	Total Aromatic Hydrocarbons	mg/kg		11	< 5.0	110
	Total Petroleum Hydrocarbons	mg/kg		67	< 10	190
	PAHs	Benzo[a]pyrene (surrogate marker)	mg/kg	10.0	3.3	3.9
BTEX	Benzene	µg/kg	72000.0	< 1.0	< 1.0	< 1.0
	Toluene	µg/kg	56000000.0	< 1.0	< 1.0	< 1.0
	Ethylbenzene	µg/kg	24000000.0	< 1.0	< 1.0	< 1.0
	m & p-Xylene	µg/kg	41000000.0	< 1.0	< 1.0	< 1.0
	o-Xylene	µg/kg	41000000.0	< 1.0	< 1.0	< 1.0
PHENOLS	Methyl Tert-Butyl Ether	µg/kg		< 1.0	< 1.0	< 1.0
	Total Phenols	mg/kg	760.0	< 0.10	0.13	< 0.10

Appendix 16 : Drawings



Apartment Block 01
Plots 169 - 218

Apartment Block 02
Plots 219 - 244

Apartment Block 1:	
2B2P - Duplex	6
3B2P - Duplex	2
1B2P - Apt	12
2B2P - Apt	26
2B4P - Apt	2
3B2P - Apt	2
Total	50

Apartment Block 2:	
2B2P - Duplex	6
3B2P - Duplex	2
1B2P - Apt	6
2B2P - Apt	12
Total	26
Total Apartments	76

Housetypes:	
HT 01 - 2B4P	32
HT 01a - 2B4P (Gable A)	14
HT 01b - 2B4P (Gable B)	10
HT 02 - 3B2P	68
HT 02a - 3B2P (Gable A)	4
HT 03 - 4B4P	8
HT 03a - 4B4P (Gable A)	4
HT 04 - 4B4P	4
HT 05 - 5B7P	1
HT 06 - 3B2P Special	1
HT 07 - 3B2P	15
HT 08 - 4B4P	5
HT 09 - 4B4P	2

Total	168
	244

T2	26/11/21	LH	Tender Issue - Apartment plot numbers updated
T1	31/08/21	LH	Highways information updated, and plot numbers added

Rev	Date	Info	Details
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M4 6AF

T 0161 236 3303
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W www.buttress.net

Project Title	Callyhurst Village
Client	FEC and MOC
Location	Manchester
Drawing Title	Plot Numbers

Date	23/11/2021 15:52:52	Scale	As indicated
Checked	Checker	Orig Paper Size	A1

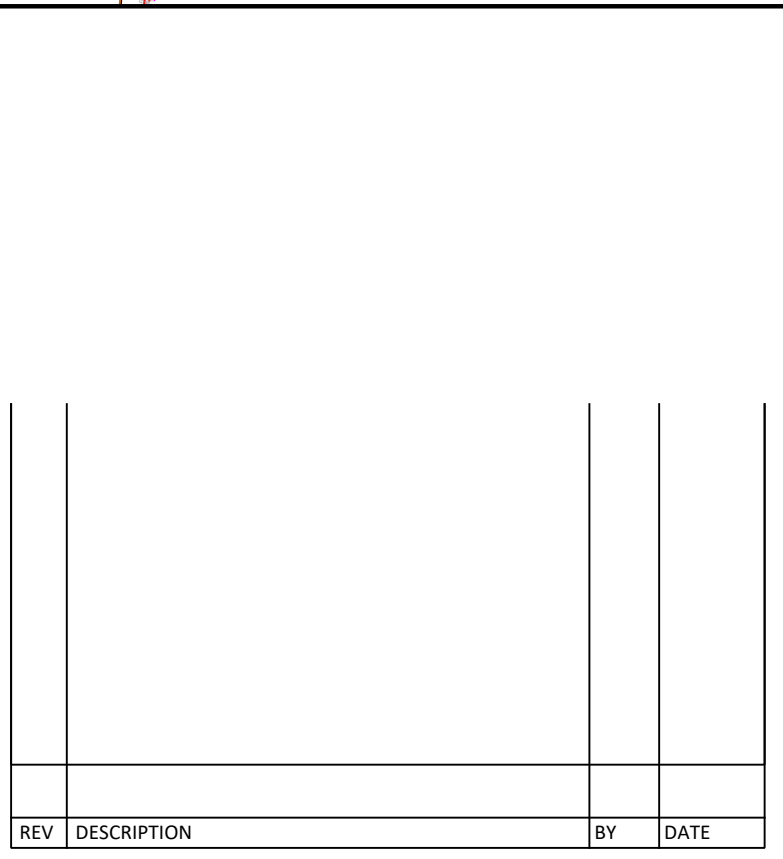
Job No:	8871	Status	TENDER
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Project:	Origin:	Zone:	Level:	Type:	Disc:	Number:	Rev:
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Plot Numbers

1 : 500

8871-BA-MP-00-DR-A-(04)707-T2



INITIAL TOPOGRAPHY

STATUS		FINAL	
DRAWN BY RC	SIGNATURE —	DATE 12/04/22	
APPROVED DA	SIGNATURE —	DATE 12/04/22	
SCALE 1:500 @ A1		DRG NO. 20_1044_01_00	

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01		UPDATED SURVEY INFORMATION FOLLOWING REMOVAL OF OPENREACH FIBREOPTIC IN NORTHERN AREA OF SITE	RC
REV	DESCRIPTION	BY	DATE



LK Remediate
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Radcliffe
M26 2ZS
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FAR EAST CONSORTIUM

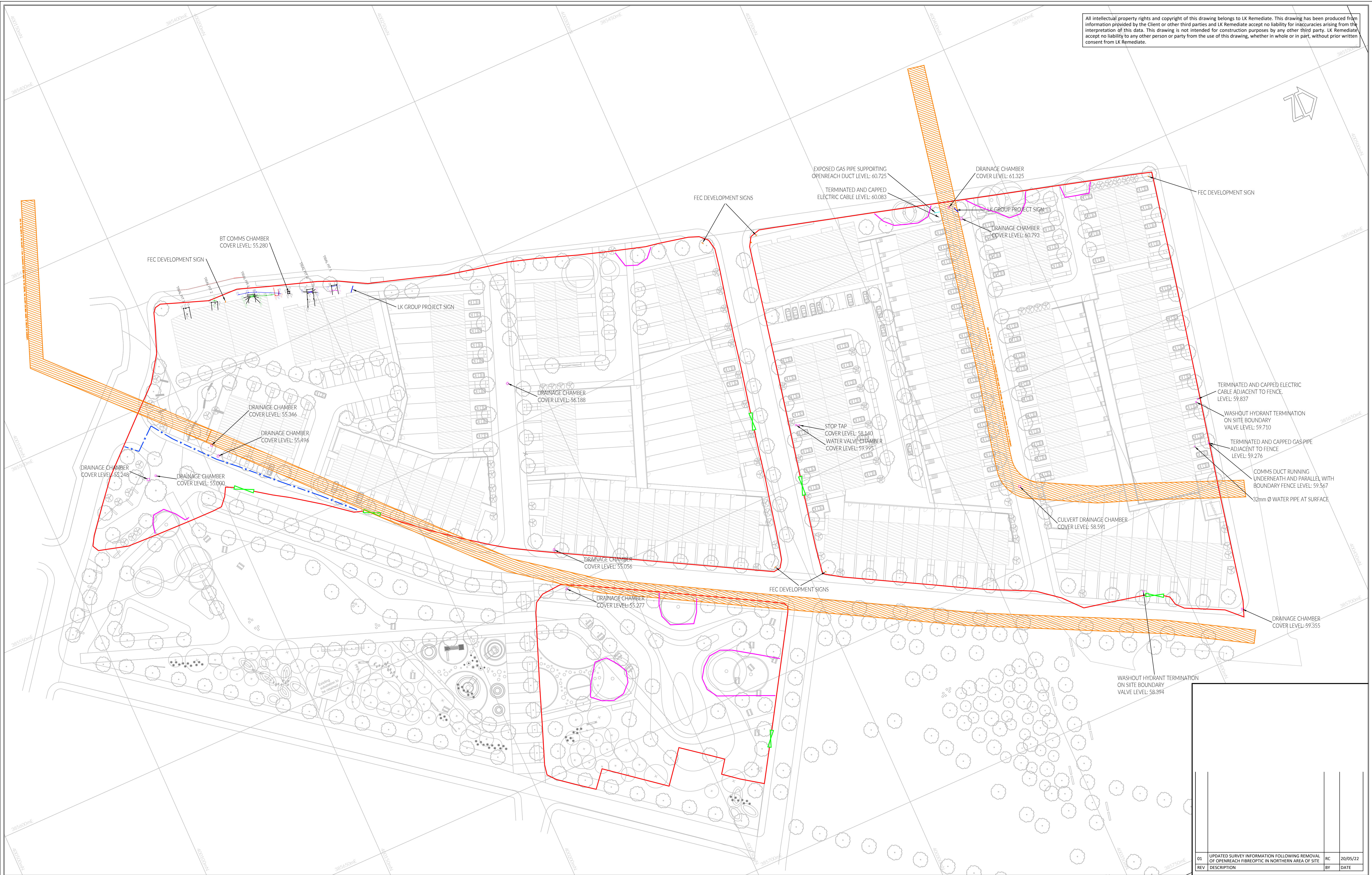
COLLYHURST VILLAGE

AS-BUILT SITE LEVELS

- NOTES
- 1925 AS-BUILT LEVEL
 - 56.474 DESIGN PLOT LEVEL
 - 54.665 PERIMETER FENCE AND ACCESS GATES
 - 56.602
 - 56.605
 - 56.605
 - CLEAN TESTED TOPSOIL/SUBSOIL (SEE DRG 20_1044_06 FOR LEVELS AND QUANTITIES)

STATUS			
FINAL			
DRAWN BY	SIGNATURE	DATE	
RC	—	14/04/22	
APPROVED	SIGNATURE	DATE	
DA	—	14/04/22	
SCALE	DRG No.		
1:500 @ A1	20_1044_02_01		

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CLIENT

FAR EAST CONSORTIUM

JOB TITLE

COLLYHURST VILLAGE

DRAWING TITLE

SERVICES REMAINING

NOTES

- CLIENT-SPECIFIED CULVERT EASEMENT (5m WIDTH)
- WATER MAIN INSTALLED 2021
- PERIMETER FENCE AND ACCESS GATES
- TEMPORARY ROOT PROTECTION ZONE FENCING

CULVERT EASEMENT INFORMATION TAKEN FROM EXISTING UTILITIES DRAWING TRIAL PIT DATA FOR BT OPENREACH DUCTS REPRODUCED FROM DRG 201044_BTOR_01

STATUS

FINAL

DRAWN BY

RC

SIGNATURE

—

DATE

14/04/22

APPROVED

DA

SIGNATURE

—

DATE

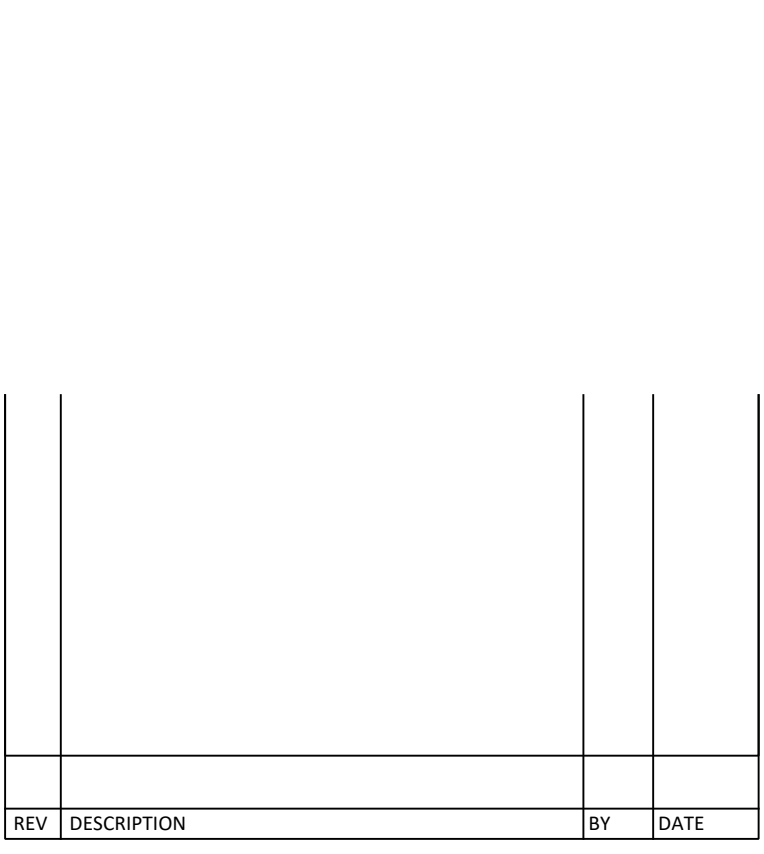
14/04/22

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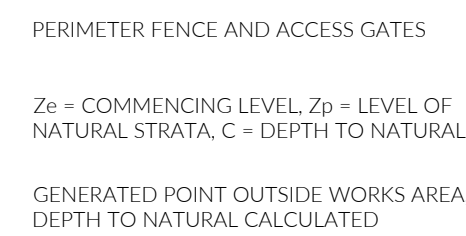
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DWG No.

20_1044_03_01



DEPTHS TO NATURAL STRATA



STATUS		FINAL	
DRAWN BY DA	SIGNATURE —	DATE 14/04/22	
APPROVED DA	SIGNATURE —	DATE 14/04/22	
SCALE 1:500 @ A1		DRG NO. 20 1044 04 00	



SAMPLING AND TEST LOCATIONS

NOTES	
	GEOCHEMICAL SAMPLE - ENGINEERED FILL
	GEOCHEMICAL SAMPLE - TOPSOIL AND SUBSOIL STOCKPILES
	CBR TEST LOCATION - CRUSH TO PILE MATS AND ROADS
	CBR TEST LOCATION - FORMATION
	CORE-CUTTED COMPACTION TEST
	CBR TEST LOCATION - FORMATION WITHIN CUT 13
	PERIMETER FENCE AND ACCESS GATES
	STOCKPILE OF CLEAN TESTED TOPSOIL/SUBSOIL (FOR FUTURE USE)

STATUS			FINAL		
DRAWN BY	SIGNATURE	DATE			
RC	—	8/04/22			
APPROVED	SIGNATURE	DATE			
DA	—	8/04/22			
SCALE	DRUG No.				
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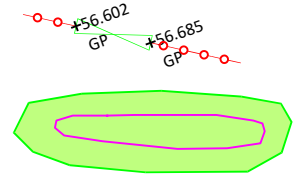
JOB TITLE

COLLYHURST VILLAGE

DRAWING TITLE

FENCES, GATES AND
SUB-SOIL STOCKPILES

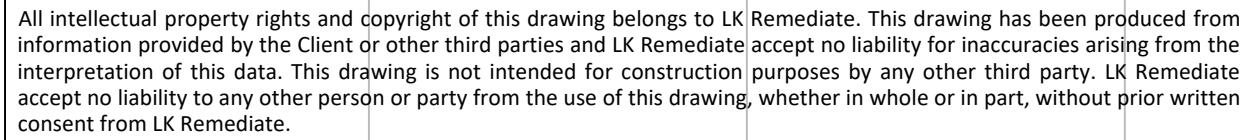
NOTES



PERIMETER FENCE AND ACCESS GATES

STOCKPILES OF SUBSOIL AND TOPSOIL RETAINED FOR FUTURE USE (SEE DRAWING 20_1044_08 FOR FULL LIST OF STOCKPILE REFERENCES DURING THE WORKS)

STATUS			
FINAL			
DRAWN BY	RC	SIGNATURE	—
APPROVED	DA	SIGNATURE	—
SCALE	1:500 @ A1		DATE
		12/04/22	
		12/04/22	
		20_1044_06_00	



Ref	Easting	Northing	Elevation	Code
86	385545.956	400217.295	52.068	Pile
87	385541.943	400217.650	52.321	Pile
98	385528.641	400190.328	51.811	Pile
100	385527.783	400187.418	51.774	Pile
101	385529.518	400186.954	51.779	Pile
102	385527.063	400185.195	51.929	Pile
103	385525.966	400182.547	52.083	Pile
105	385526.919	400181.801	51.965	Pile
106	385525.073	400180.465	51.587	Pile
606	385546.416	400209.723	51.847	Pile
607	385544.065	400210.109	51.791	Pile
608	385544.828	400209.955	51.783	Pile
610	385543.524	400206.864	51.948	Pile
611	385544.378	400209.093	51.915	Pile
612	385544.497	400208.799	51.895	Pile
613	385545.171	400206.480	51.802	Pile
614	385543.352	400206.479	51.957	Pile
615	385544.129	400205.721	51.938	Pile
616	385541.943	400204.174	52.108	Pile
618	385542.730	400204.137	52.102	Pile
1688	385540.336	400201.071	51.958	Pile
1689	385541.572	400200.730	51.959	Pile
1690	385538.737	400201.757	51.771	Pile
1691	385538.352	400201.622	51.190	Pile
1692	385536.925	400202.229	50.793	Pile
1694	385535.519	400202.960	51.328	Pile
1695	385533.429	400204.023	51.807	Pile
1696	385539.688	400197.408	51.743	Pile
1697	385532.483	400200.688	51.981	Pile
1698	385536.657	400196.164	52.133	Pile
1699	385535.550	400198.910	51.746	Pile
1700	385538.140	400194.236	51.977	Pile
1701	385537.185	400194.920	51.425	Pile
1702	385535.553	400197.926	51.657	Pile
1703	385535.974	400195.317	51.622	Pile
1704	385534.741	400196.109	51.671	Pile
1705	385534.922	400195.492	51.575	Pile
1706	385531.660	400197.226	51.785	Pile
2190	385532.210	400176.575	51.955	Pile
2191	385531.319	400177.316	52.264	Pile
2192	385528.321	400177.687	51.957	Pile
2194	385529.653	400181.111	51.545	Pile
2195	385533.370	400179.479	52.037	Pile
2196	385531.716	400182.280	52.137	Pile
2198	385532.328	400189.564	51.960	Pile
2199	385534.131	400190.134	51.709	Pile
2200	385535.884	400186.300	51.948	Pile
2201	385535.117	400184.684	52.007	Pile
2202	385533.966	400185.296	52.016	Pile
2203	385533.640	400184.280	51.969	Pile
2204	385534.906	400183.338	52.151	Pile
2205	385530.985	400186.144	52.180	Pile
2208	385539.439	400190.357	51.831	Pile
2209	385538.604	400190.335	51.974	Pile
2210	385537.808	400191.679	51.841	Pile
2211	385537.995	400192.247	51.963	Pile
2212	385536.438	400191.800	51.865	Pile
2213	385535.674	400191.997	51.921	Pile
2214	385533.877	400192.803	51.795	Pile
2235	385578.416	400224.238	53.338	Obstruction

SCALE 1:1000

[illegible]

OBSTRUCTIONS REMAINING

NOTES

REF 2235
53.338 LOCATION AND LEVEL OF CROPPED PILES. REFERENCE
NUMBER IS SURVEY POINT NUMBER (SEE INSET TABLE)

PERIMETER FENCE AND ACCESS GATES

FOR SERVICES REMAINING WITHIN THE SITE BOUNDARY AND WHICH THEREFORE
PRESENT AS OBSTRUCTIONS, PLEASE REFER TO DRG 20_1044_03_00

DRAWN BY RC	SIGNATURE —	DATE 12/04/22
APPROVED DA	SIGNATURE —	DATE 12/04/22

SCALE

AS SHOWN @ A1

20_1044_07_00

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STOCKPILE REGISTER - COLLYHURST								
STOCKPILE #	MATERIAL TYPE					NOTES	VOLUME AT COMPLETION	
	U/S	FILL	CLAY	S/SOIL	T/SOIL			6F2/6F5
SP1		153					Used as suitable fill	0
SP2		146					Used as suitable fill	0
SP3				266			Relocated; resurveyed as SP19	0
SP4A		112					Used as suitable fill	0
SP4B				577			Relocated; resurveyed as SP21	0
SP5				427			Resorted & augmented; resurveyed as SP22	0
SP6		61					Used as suitable fill	0
SP7		177					Disposal off site	0
SP8		478					Used as suitable fill	0
SP9						1,117	Site-won 6F2, used in pile mats	0
SP10	653						Disposal off site	0
SP11		67					Used as suitable fill	0
SP12		47					Used as suitable fill	0
SP13	162						Disposal off site	0
SP14		252					Used as suitable fill	0
SP15					97		Augmented; resurveyed as SP35	0
SP16		361					Part disposal; resurveyed as SP20	0
SP17A			307				Site-won clay; used as fill	0
SP17B			82				Site-won clay; used as fill	0
SP18				250			Tested subsoil, south site	250
SP19				270			Tested subsoil, south site	270
SP20		302					Disposal off site	0
SP21				550			Resorted; resurveyed as SP29	0
SP22				413			Resurveyed as SP26	0
SP23						150	Imported 6F5; used in pile mats	0
SP24	333						Disposal off site	0
SP25	403						Disposal off site	0
SP26				420			Augmented and resurveyed as SP34	0
SP27		347					Disposal off site	0
SP28		274					Disposal off site	0
SP29				439			Augmented & resurveyed as SP31	0
SP30	133						Disposal off site	0
SP31				900			Relocated; resurveyed as SP31A	0
SP31A				900			Tested subsoil, north site	900
SP32		707					Disposal off site	0
SP33	293						Disposal off site	0
SP34				850			Relocated; resurveyed as SP34A	0
SP34A				850			Tested subsoil, north site	850
SP35					111		Topsoil stockpile in Park area	111
SP36	31						Security bund, south gate	31
SP37	28						Security bund, north gate	28
SP38	21						Security bund, south gate Paget St	21
SP39	24						Security bund, north gate Paget St	24
SP40	21						Security bund, Needham Close	21
SP41	39						Security bund, Park area	39
								2,545



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FAR EAST CONSORTIUM

COLLYHURST VILLAGE

TEMPORARY AND
FINAL STOCKPILES

SP31A

SP6

SP41

PERIMETER FENCE AND ACCESS GATES

STOCKPILES OF SUBSOIL AND TOPSOIL RETAINED FOR FUTURE USE

TEMPORARY STOCKPILES DURING REMEDIATION PERIOD

BUNDED FILL MATERIAL TO PREVENT UNAUTHORISED ACCESS

STATUS

FINAL

DRAWN BY

RC

SIGNATURE

—

DATE

12/04/22

APPROVED

DA

SIGNATURE

—

DATE

12/04/22

SCALE

1:500 @ A1

DRG No.

20_1044_08_00