

A46 Newark Bypass

TR010065/APP/6.3

6.3 Environmental Statement

Appendix 9.2 Contaminated Land Risk Assessment

Part 4

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

Volume 6

April 2024

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

A46 Newark Bypass

Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT

APPENDIX 9.2 CONTAMINATED LAND RISK ASSESSMENT

PART 4

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010065
Application Document Reference	TR010065/APP/6.3
Author:	A46 Newark Bypass Project Team, National Highways

Version	Date	Status of Version
Rev 1	April 2024	DCO Application

Contents

Appendix D: Factual reports



Plate 67

BH09 - 6.30 to 8.00m bgl



Plate 68

BH09 - 8.00 to 10.50m bgl

Tetra Tech
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47 Newport Road
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Project :-
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Project No.: B026948

Oct-21



Plate 69

BH09 - 10.50 to 13.50m bgl



Plate 70

BH09 - 13.50 to 16.50m bgl

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Plate 71 BH09 - 16.50 to 19.50m bgl



Plate 72 BH09 - 19.50 to 22.50m bgl

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Plate 73

BH09 - 22.50 to 25.00m bgl

Plate 74

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Plate 75

BH10 - 4.60 to 7.10m bgl

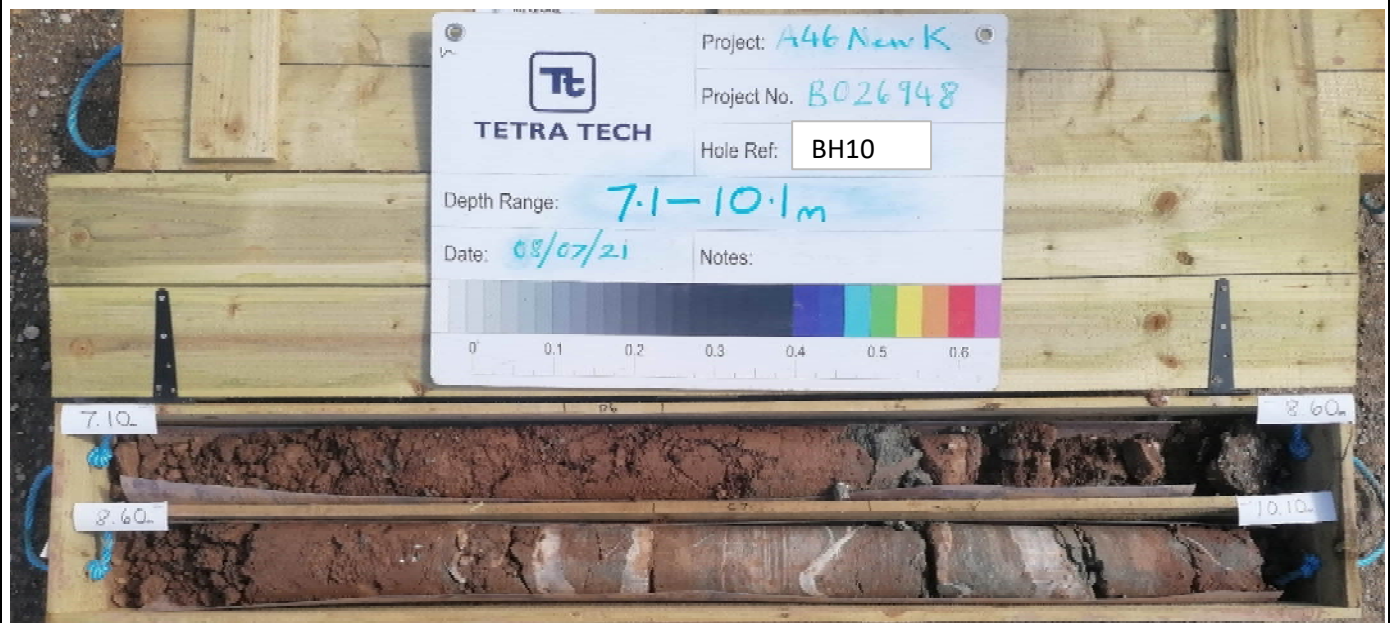


Plate 76

BH10 - 7.10 to 10.10m bgl

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Plate 77

BH10 - 10.10 - 13.10m bgl



Plate 78

BH10 - 13.10 to 16.10m bgl

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Plate 79

BH10 - 16.10 to 19.10m bgl



Plate 80

BH10 - 19.10 to 22.10m bgl

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Plate 81

BH10 - 22.10 to 25.00m bgl

Plate 82

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Plate 83

BH11 - 6.70 to 11.20m bgl



Plate 84

BH11 - 14.20 to 17.20m bgl

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Plate 85

BH11 - 23.20 to 25.00m bgl

Plate 86

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Plate 87

BH12 - 6.75 to 8.00m bgl



Plate 88

BH12 - 11.00m bgl

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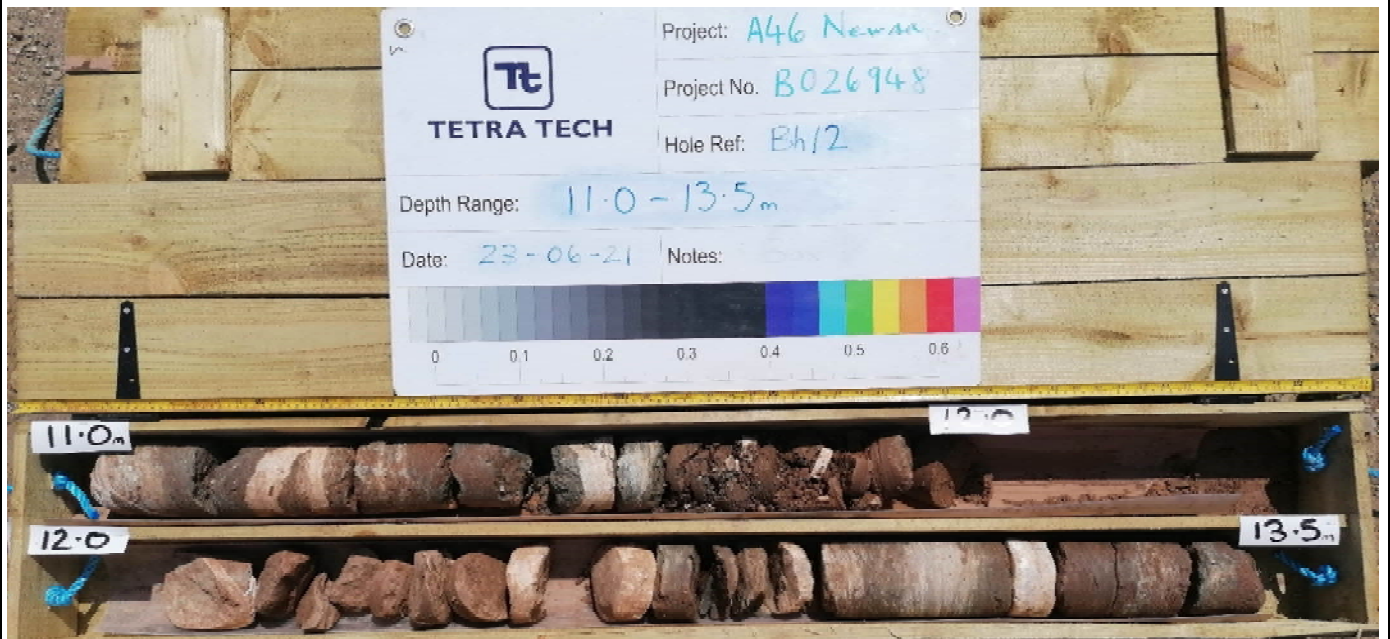


Plate 89

BH12 - 11.00 to 13.50m bgl



Plate 90

BH12 - 13.50 to 16.50m bgl

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Plate 91 BH12 - 16.50 to 19.50m bgl



Plate 92 BH12 - 19.50 to 22.50m bgl

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Plate 93

BH12 - 22.50 to 25.00m bgl

Plate 94

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Plate 95

BH13 - 1.20 to 2.00m bgl



Plate 96

BH13 - 2.00 to 4.00m bgl

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Plate 97

BH13 - 4.00 to 6.00m bgl

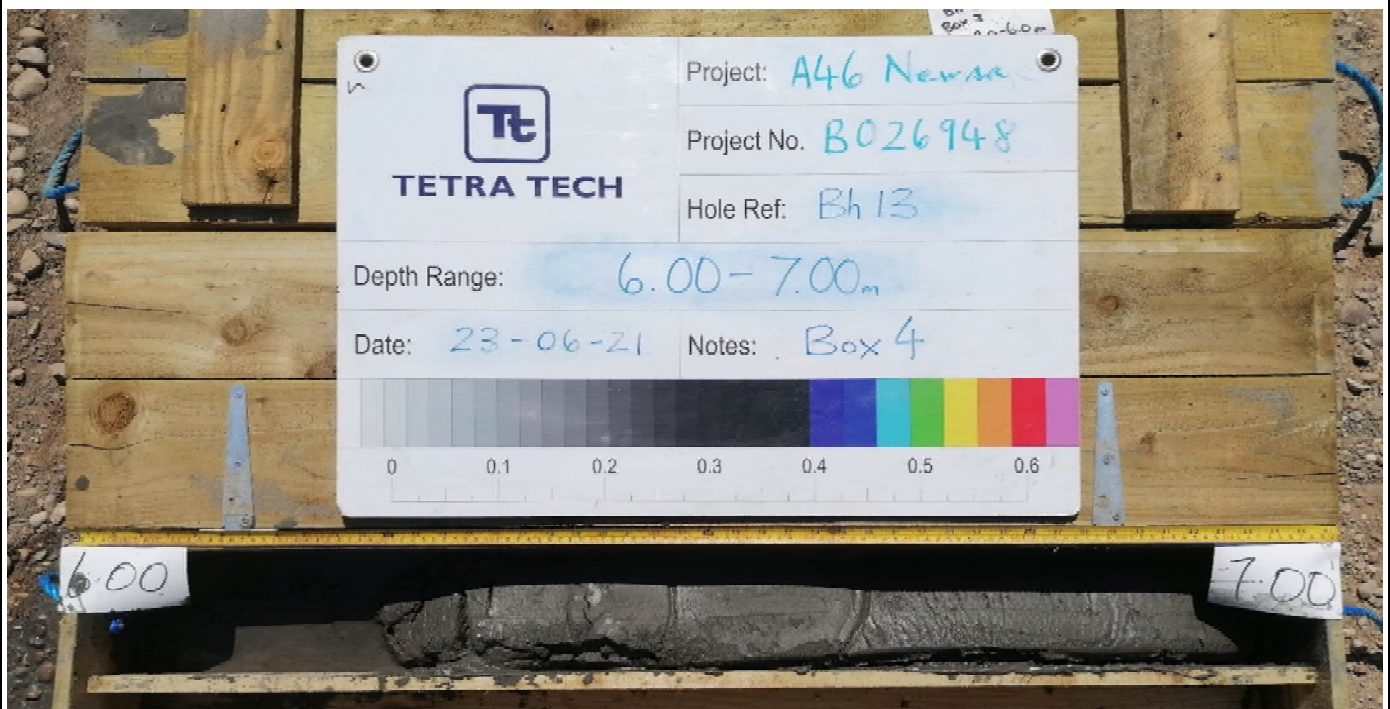


Plate 98

BH13 - 6.00 to 7.00m bgl

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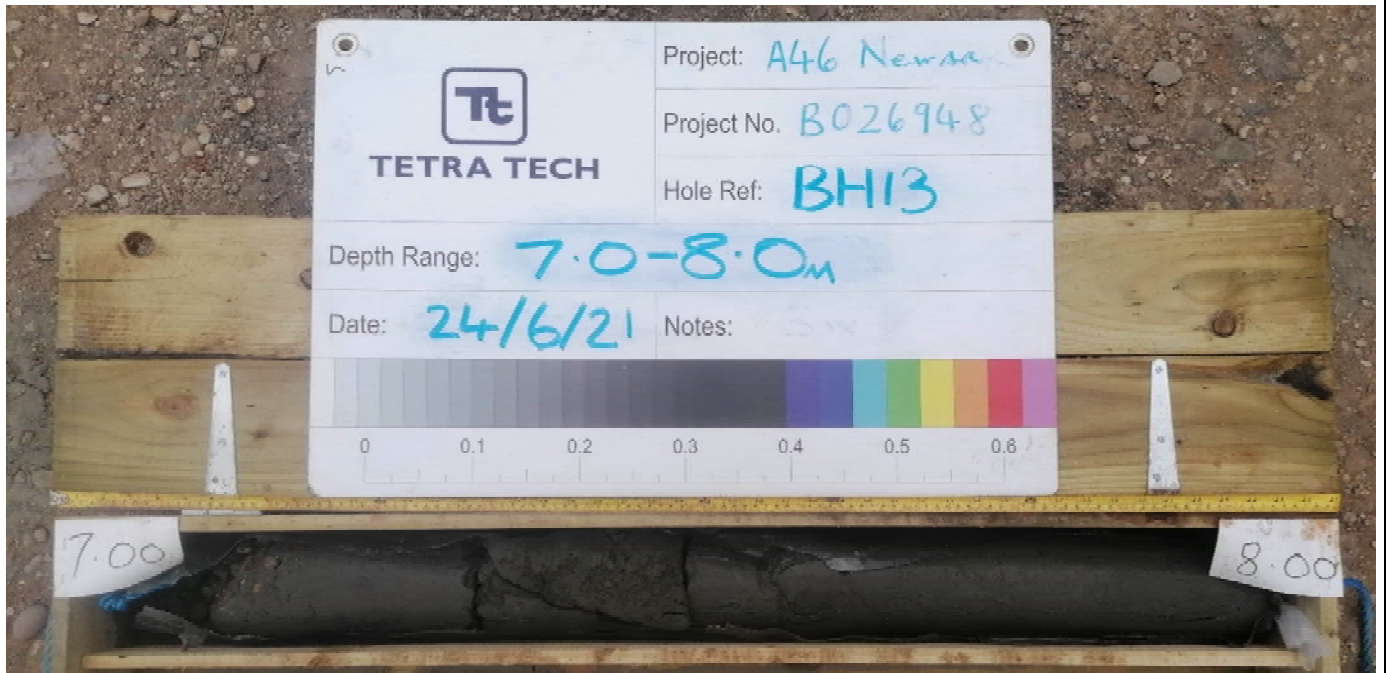


Plate 99

BH13 - 7.00 to 8.00m bgl



Plate 100

BH13 - 8.00 to 10.00m bgl

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Plate 101 BH13 - 10.00 to 12.00m bgl

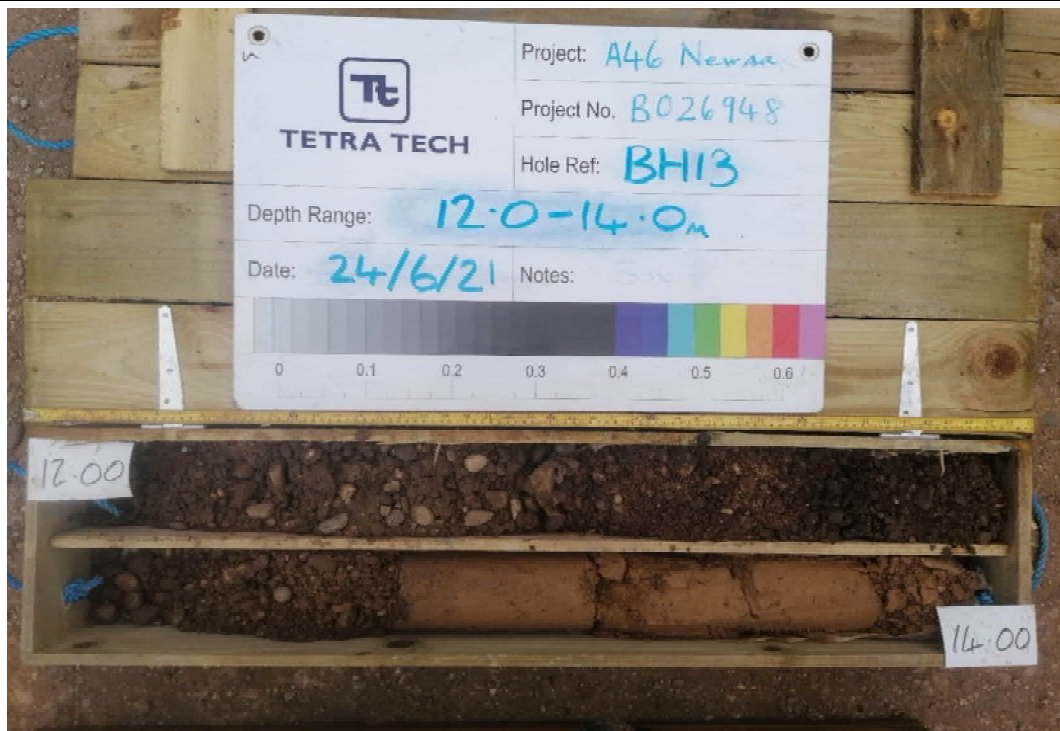


Plate 102 BH13 - 12.00 to 14.00m bgl

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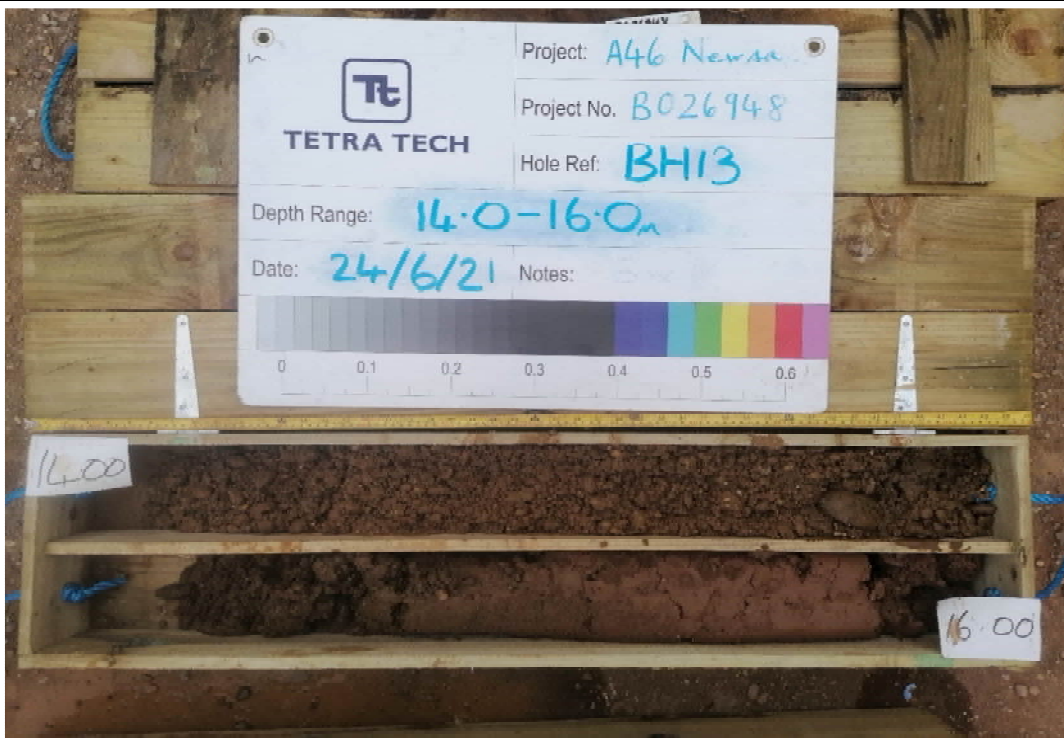


Plate 103 BH13 - 14.00 to 16.00m bgl

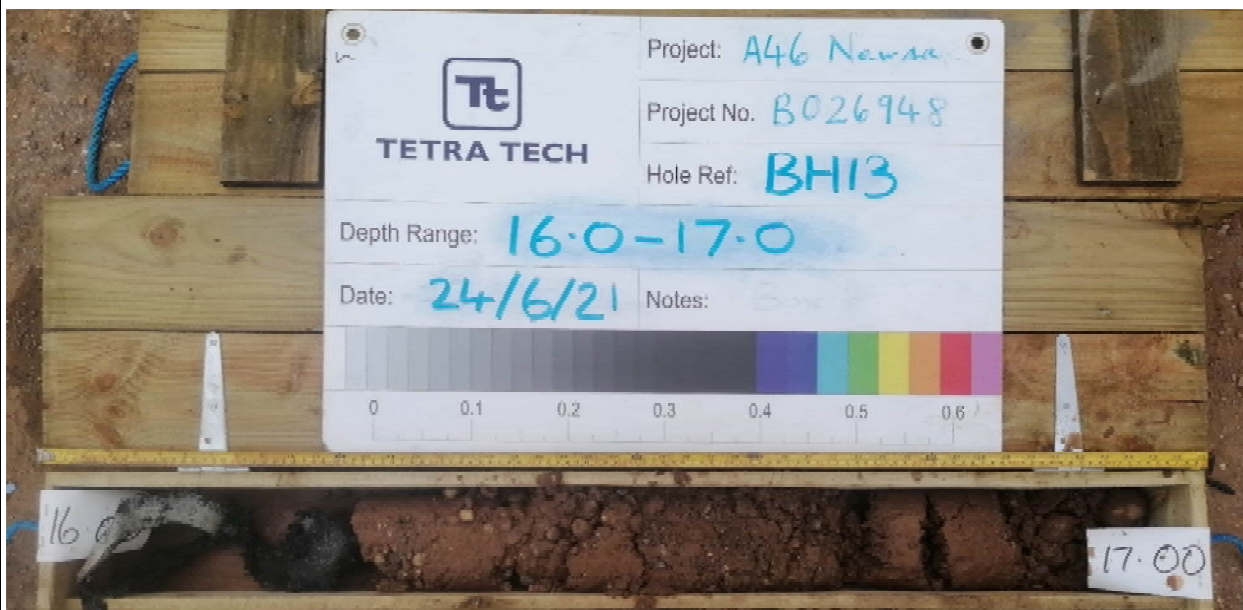



Plate 104 BH13 - 16.00 to 17.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	<p>Project :- A46 NNB</p>	
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<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p>	<p>Oct-21</p>

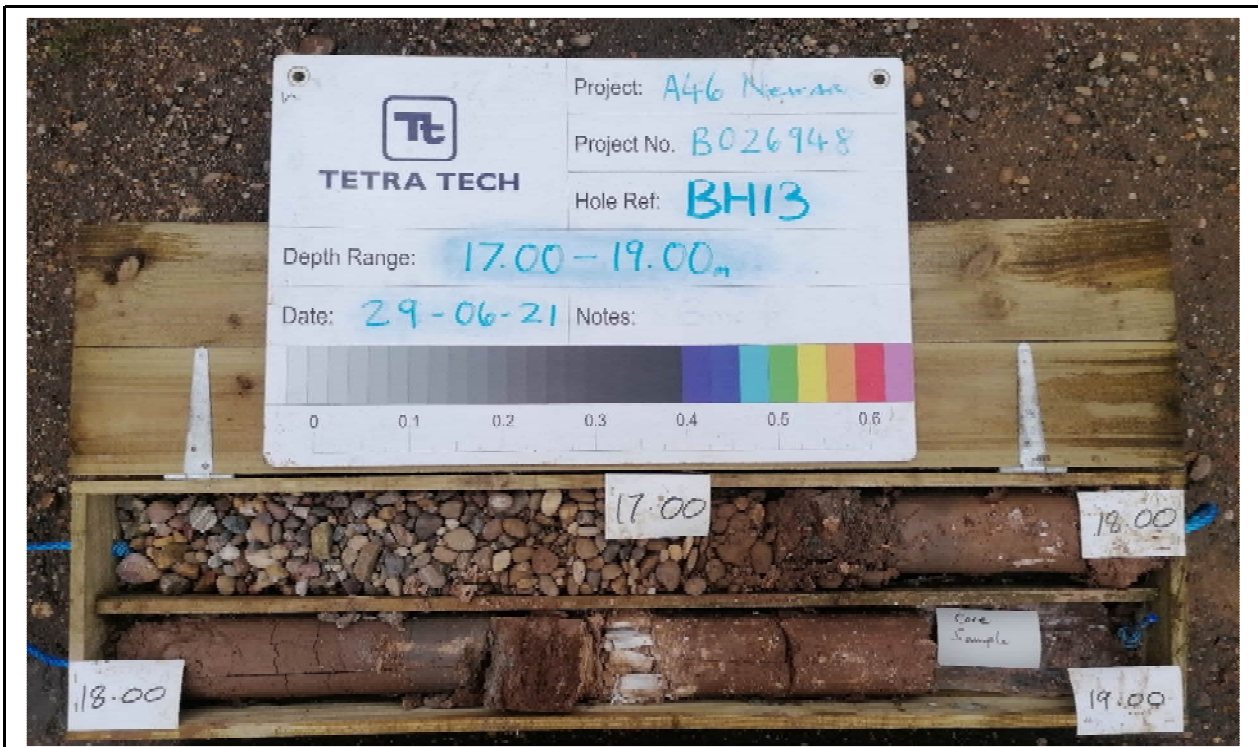


Plate 105 BH13 - 17.00 to 19.00m bgl

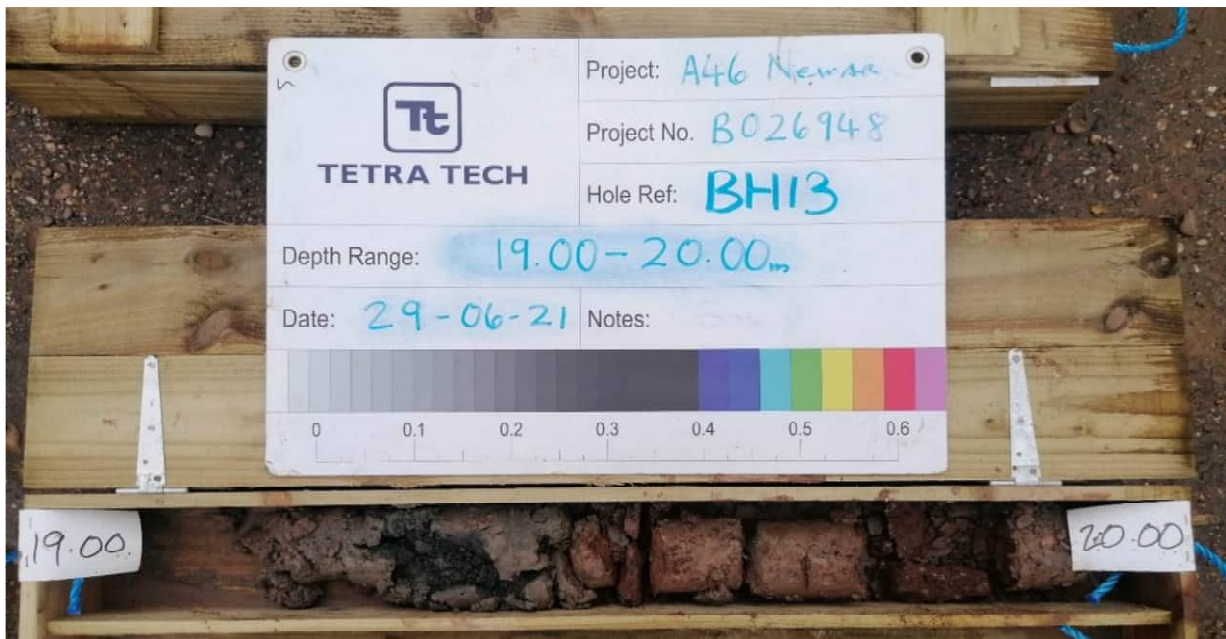


Plate 106 BH13 - 19.00 to 20.00m bgl

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<p>Environmental Consultancy Ground Technologies & Investigation</p>			

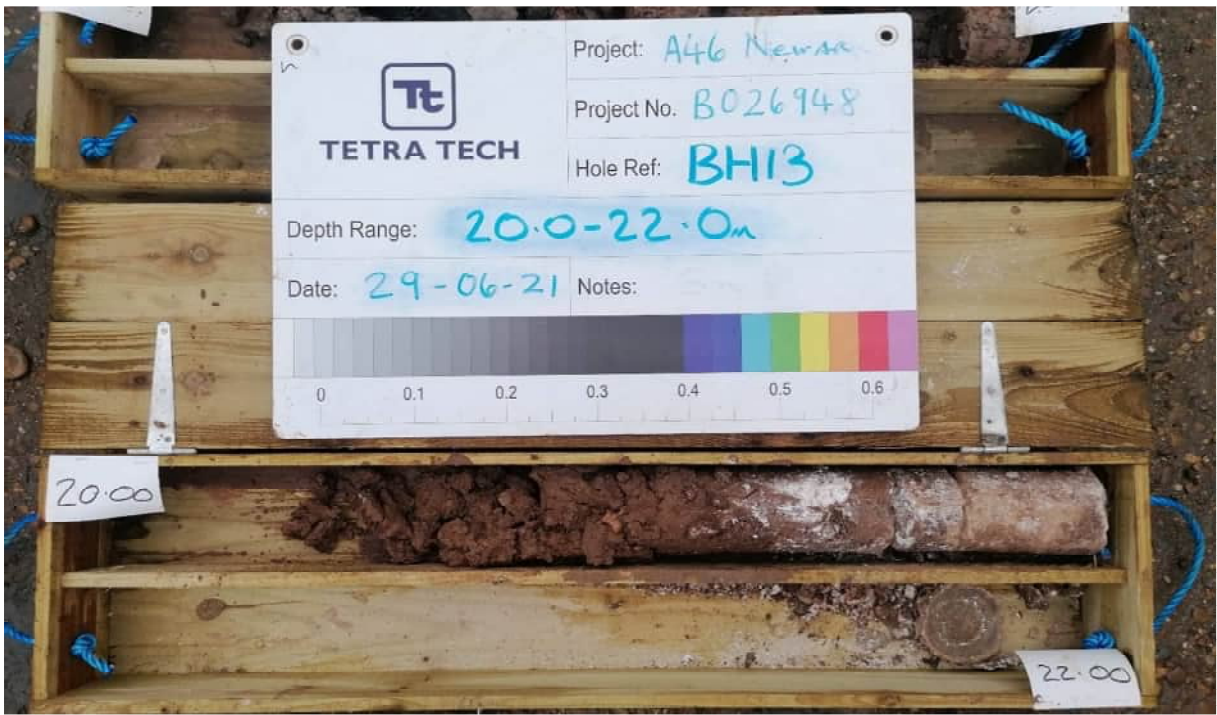


Plate 107 BH13 - 20.00 to 22.00m bgl

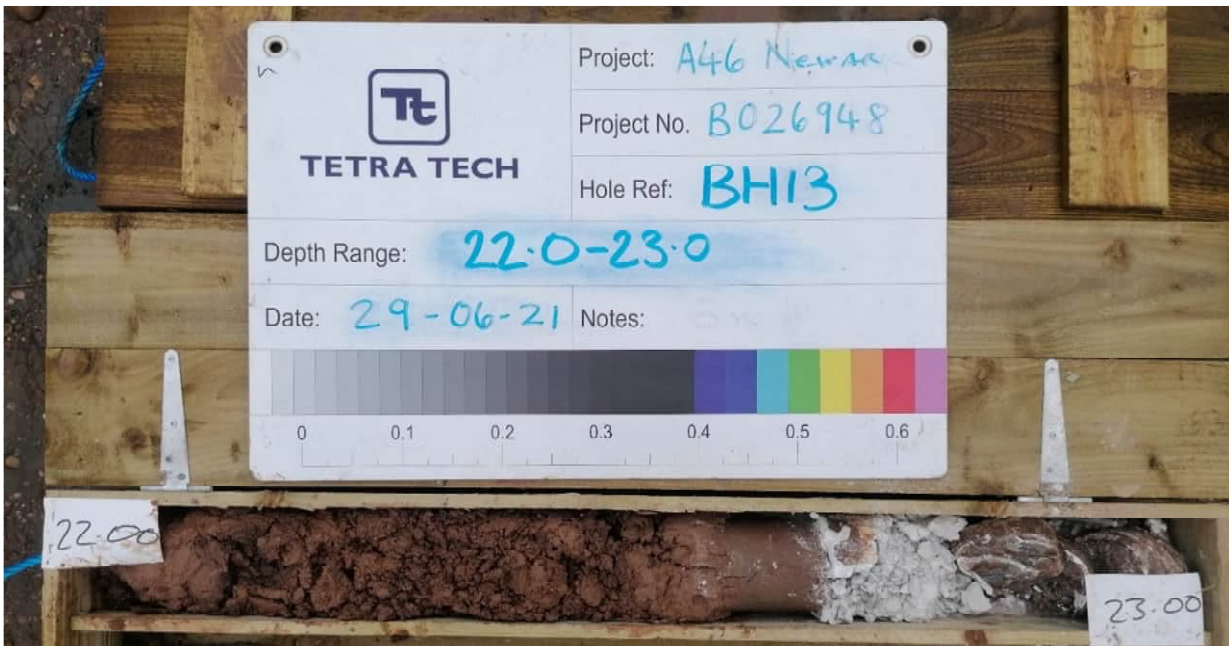


Plate 108 BH13 - 22.00 to 23.00m bgl

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Plate 109 BH13 - 23.00 to 24.75m bgl



Plate 110 BH13 - 24.75 to 26.25m bgl

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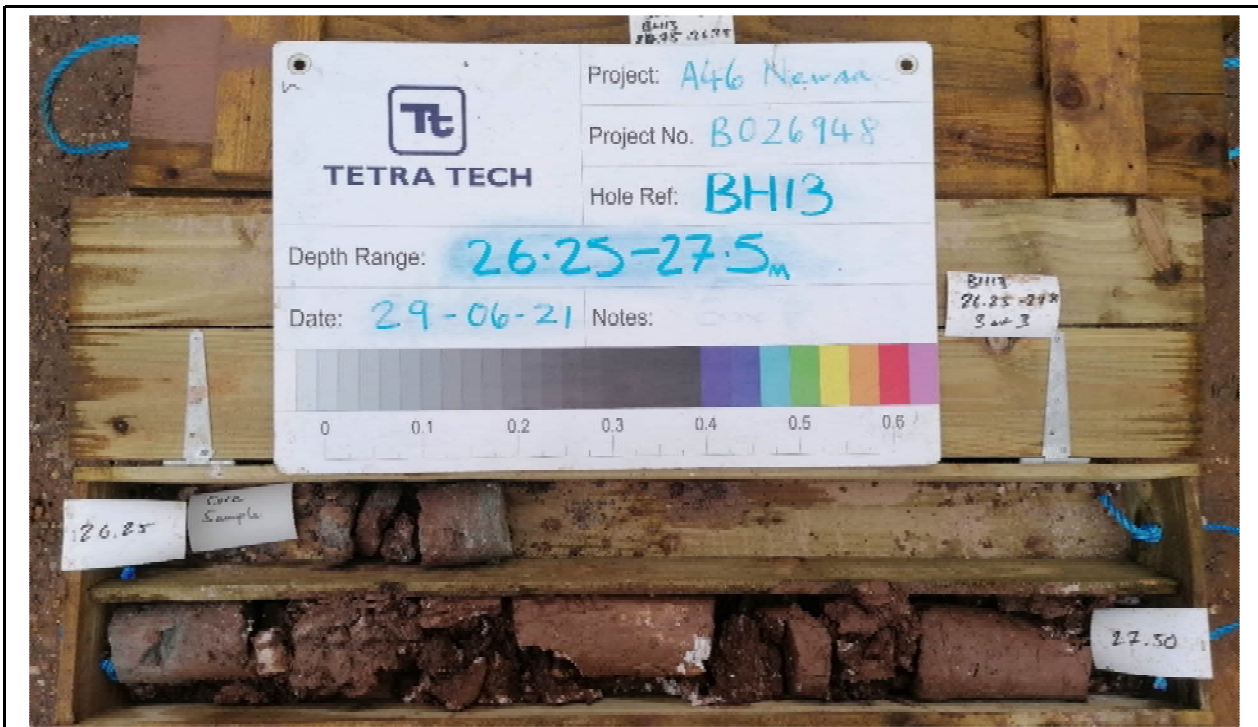


Plate 111 BH13 - 26.25 to 27.50m bgl



Plate 112 BLANK

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Plate 113 BH14 - 4.50 to 8.50m bgl



Plate 114 BH14 - 8.50 to 11.50m bgl

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Plate 115 BH14 - 11.50 to 14.50m bgl



Plate 116 BH14 - 14.50 to 17.50m bgl

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Plate 117 BH14 - 20.50 to 23.50m bgl

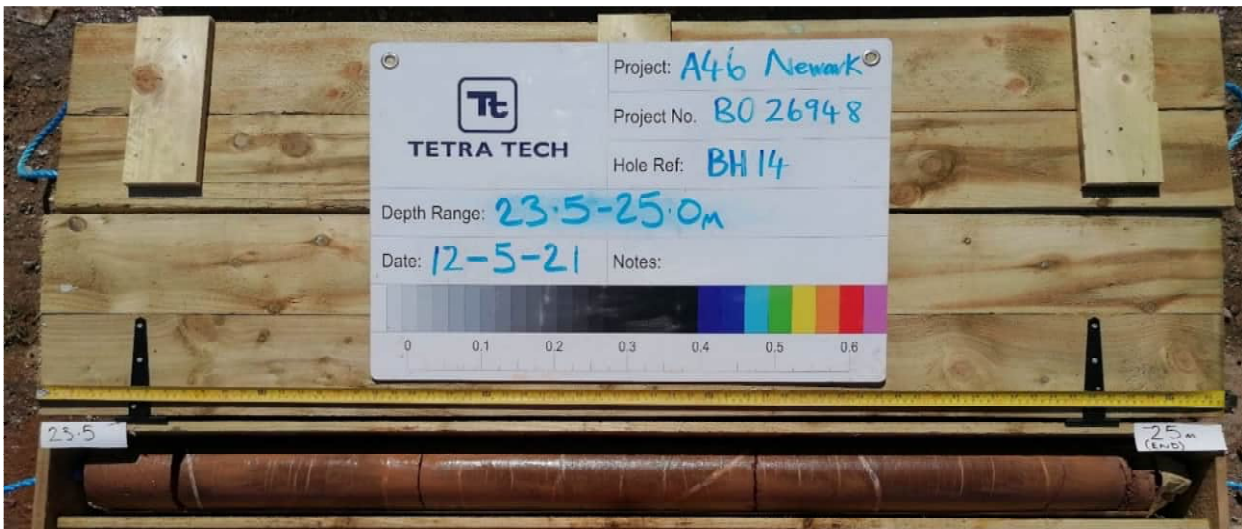


Plate 118 BH14 - 23.50 to 25.00m bgl

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Plate 119 BH15 - 1.20 to 3.00m bgl



Plate 120 BH15 - 3.00 to 5.00m bgl

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Plate 121 BH15-13.50 to 17.00m bgl



Plate 122 BH15 -17.00 to 20.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>			
<p>Environmental Consultancy Ground Technologies & Investigation</p>		<p>Project No.: B026948</p>	<p>Oct-21</p>

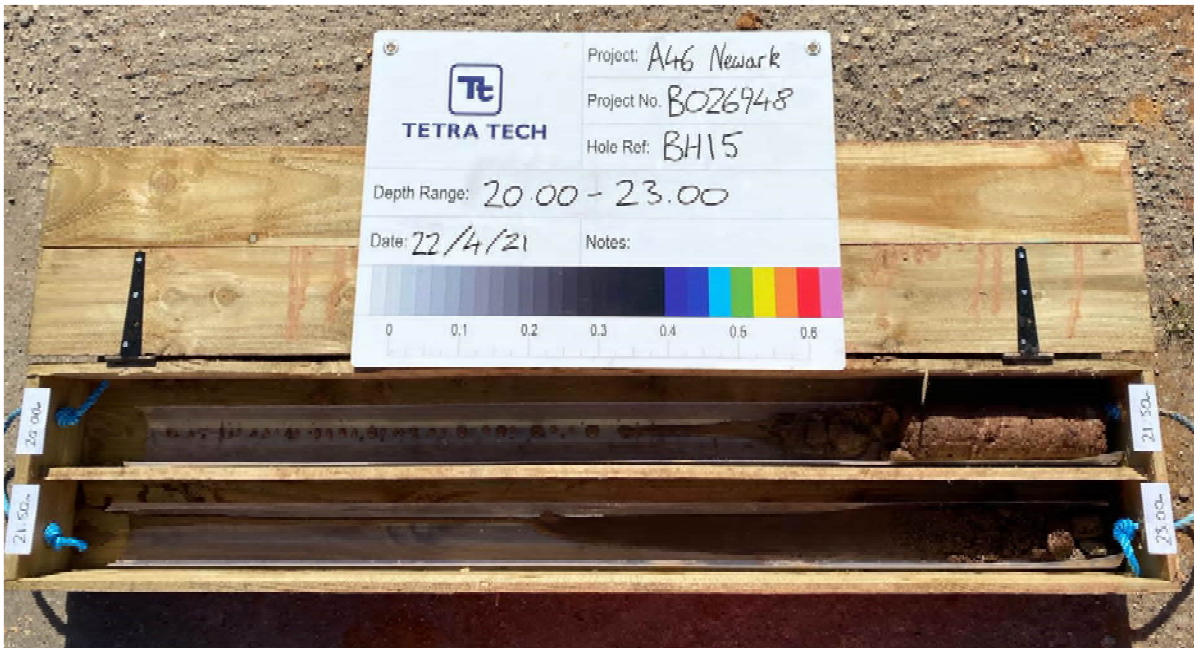


Plate 123 BH15 - 20.0 to 23.00m bgl



Plate 124 BH15 - 23.00 to 25.00m bgl

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Plate 125 BH15 - 25.00 to 28.00m bgl



Plate 126 BH15 - 28.00 to 29.50m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
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<p>Environmental Consultancy Ground Technologies & Investigation</p>			



Plate 127 BH16 - 1.20 to 3.00m bgl



Plate 128 BH16 - 3.00 to 4.50m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>		<p>Project :- A46 NNB</p>	
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Plate 129 BH16 - 4.50 to 7.50m bgl



Plate 130 BH16 - 7.50 to 12.00m bgl


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Plate 131 BH16 - 12.00 to 15.00m bgl



Plate 132 BH16 - 15.00 to 18.00m bgl


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Plate 133 BH16 - 18.00 to 21.00m bgl



Plate 134 BH16 - 21.00 to 23.50m bgl

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Plate 135 BH16 - 23.50 to 25.00m bgl

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Plate 137 BH17 - 1.20 to 3.00m bgl



Plate 138 BH17 - 3.00 to 4.50m bgl


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Plate 139 BH17 - 4.50 to 7.50m bgl



Plate 140 BH17 - 9.00 to 12.00m bgl


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Plate 141 BH17 - 13.50 to 18.00m bgl



Plate 142 BH17 - 19.5 to 22.50m bgl

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	<p>Project No.: B026948</p>		<p>Oct-21</p>	



Plate 143 BH18 - 3.00 to 6.00m bgl



Plate 144 BH18 - 6.00 to 9.00m bgl


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Plate 145 BH18 - 9.00 to 11.00m bgl

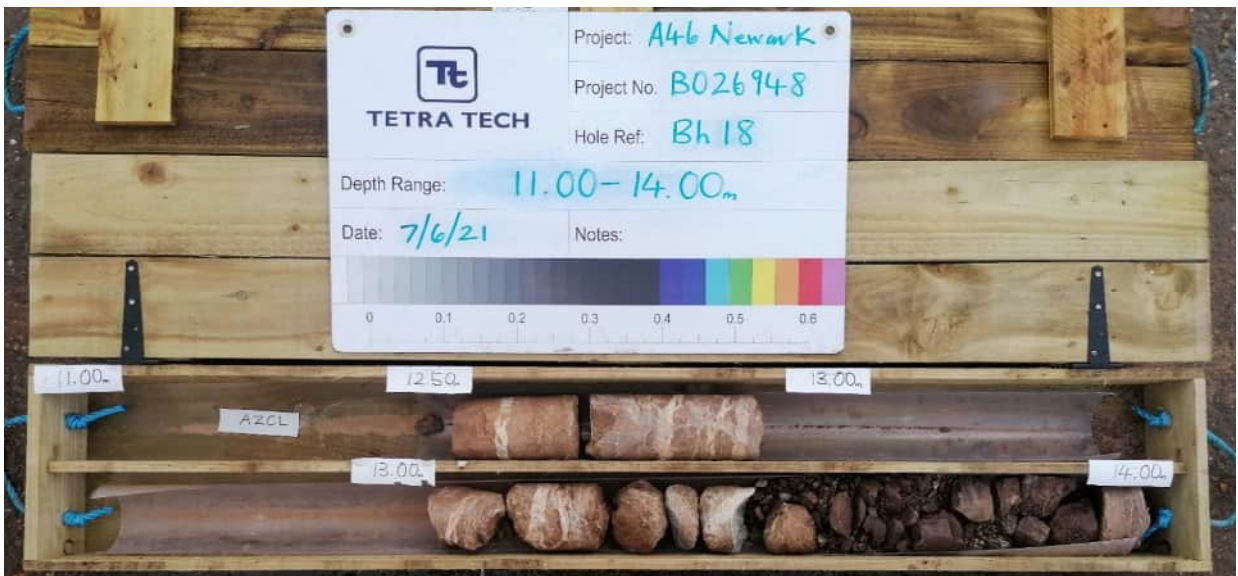


Plate 146 BH18 - 11.00 to 14.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>		<p>Project :- A46 NNB</p>	
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Plate 147 BH18 - 14.00 to 16.00m bgl

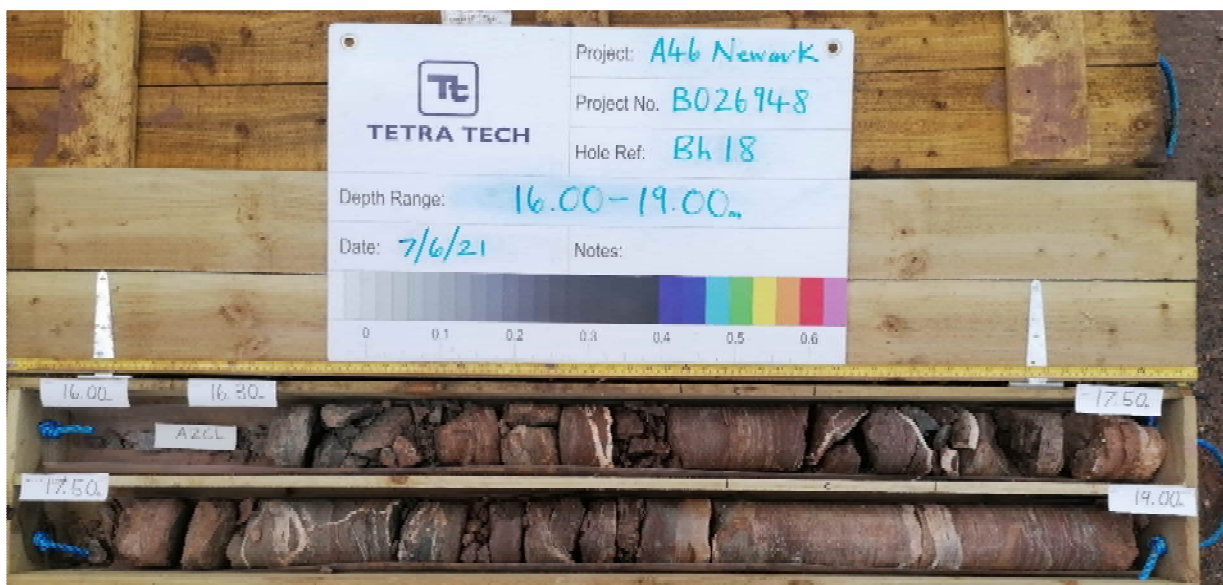


Plate 148 BH18 - 16.00 to 19.00m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	<p>Project :- A46 NNB</p>	
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Plate 149 BH18 - 19.00 to 22.00m bgl



Plate 150 BH18 - 22.00 to 23.50m bgl


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Plate 151 BH19 - 1.20 to 3.00m bgl



Plate 152 BH19 - 3.00 to 5.00m bgl

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Plate 153 BH19 - 5.00 to 6.00m bgl



Plate 154 BH19 - 6.00 to 9.00m bgl

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Plate 155 BH19 - 9.00 to 12.00m bgl

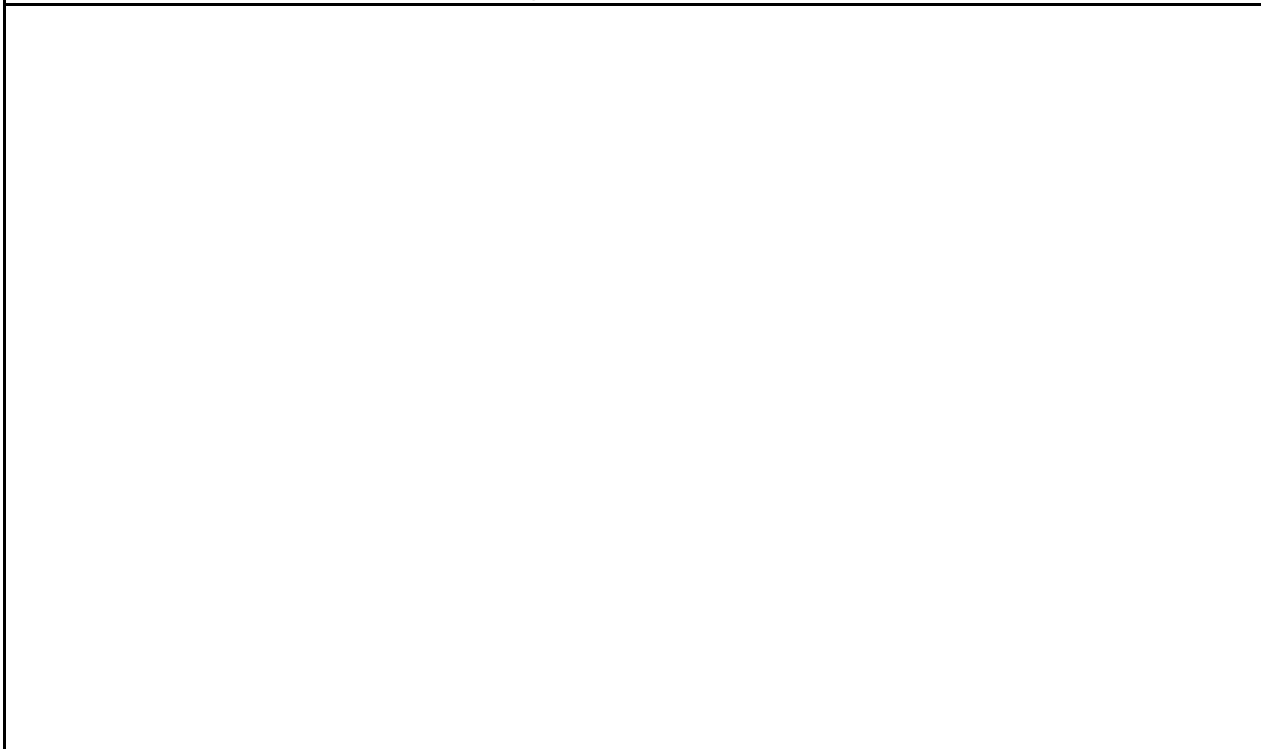


Plate 156 BLANK

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Plate 157 BH21 - 1.20 to 3.00m bgl



Plate 158 BH21 - 3.00 to 6.00m bgl

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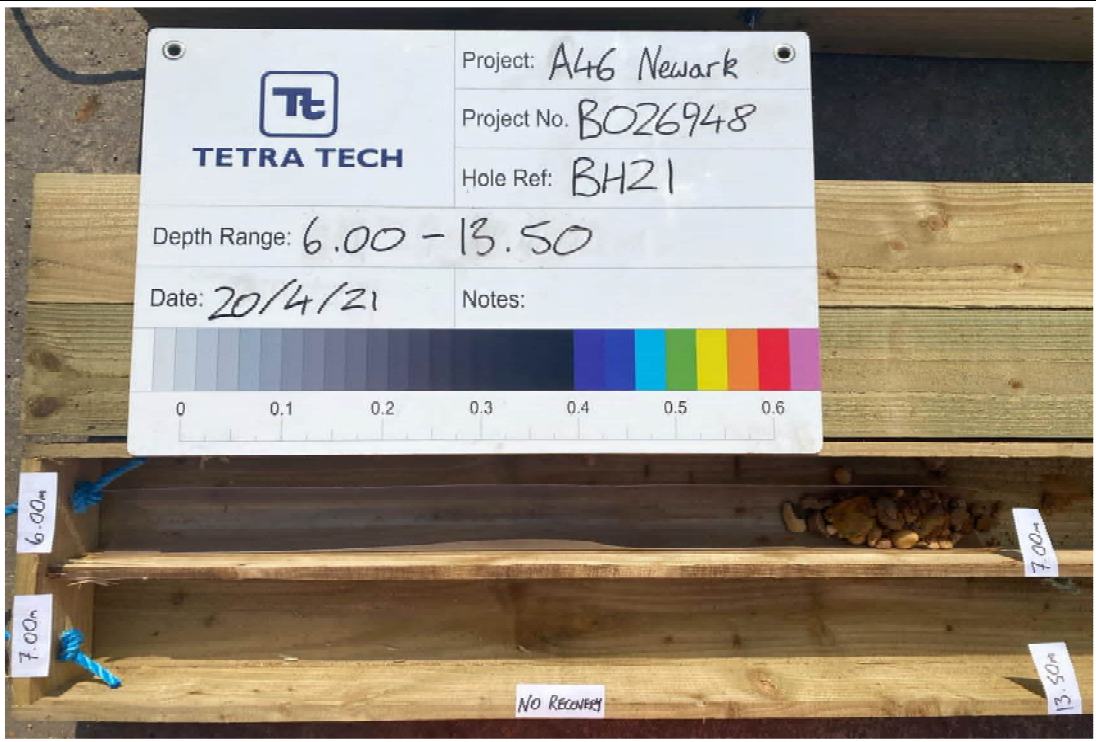


Plate 159 BH21 - 6.00 to 13.50m bgl

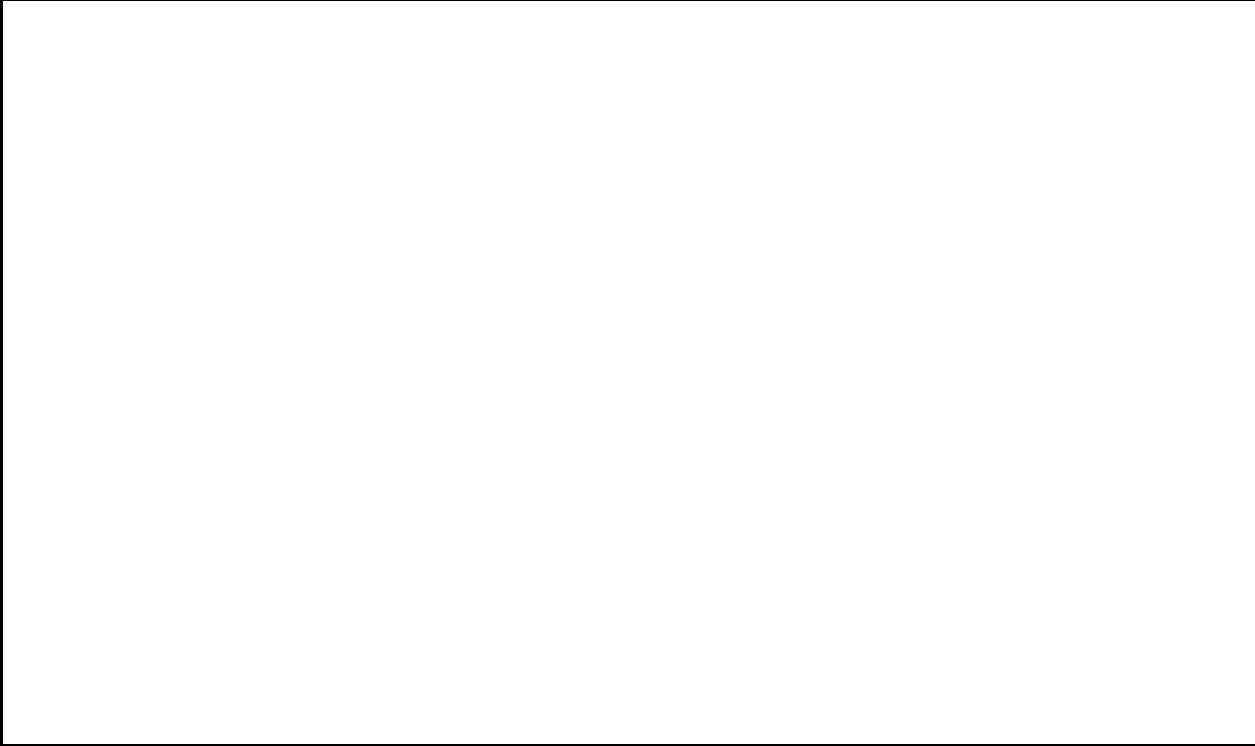


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<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>		<p>Project :- A46 NNB</p>	
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<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p>	<p>Dec-21</p>	



Plate 161 BH22 - 1.20 to 3.00m bgl

Plate 162 BLANK

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Oct-21

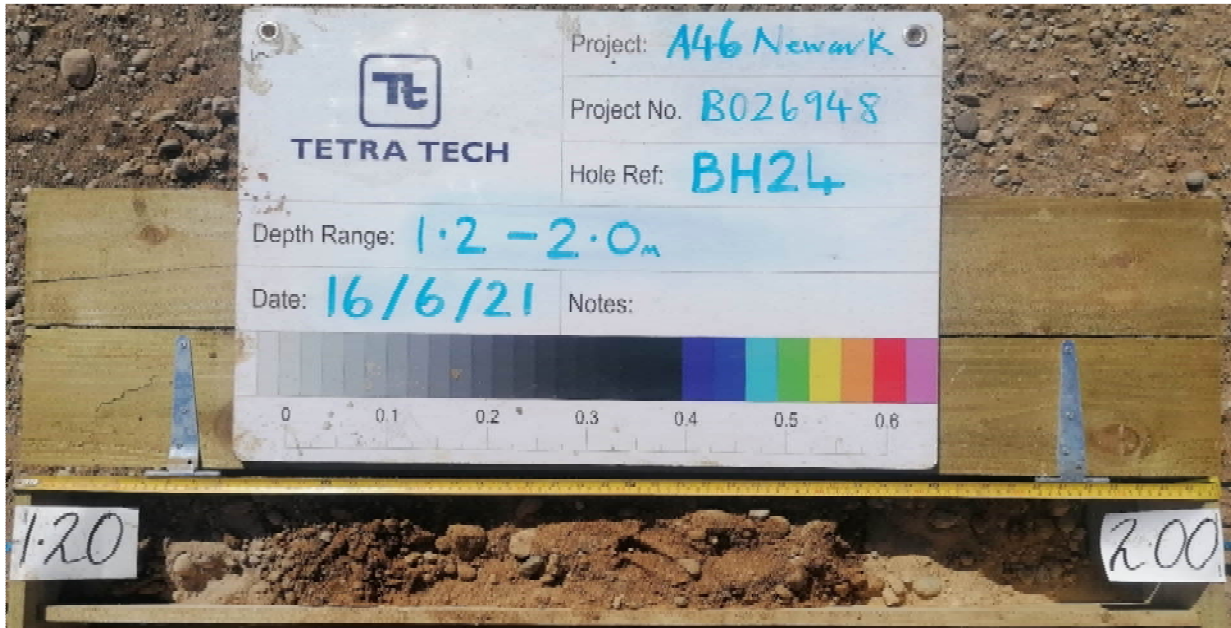


Plate 163 BH24 - 1.20 to 2.00m bgl

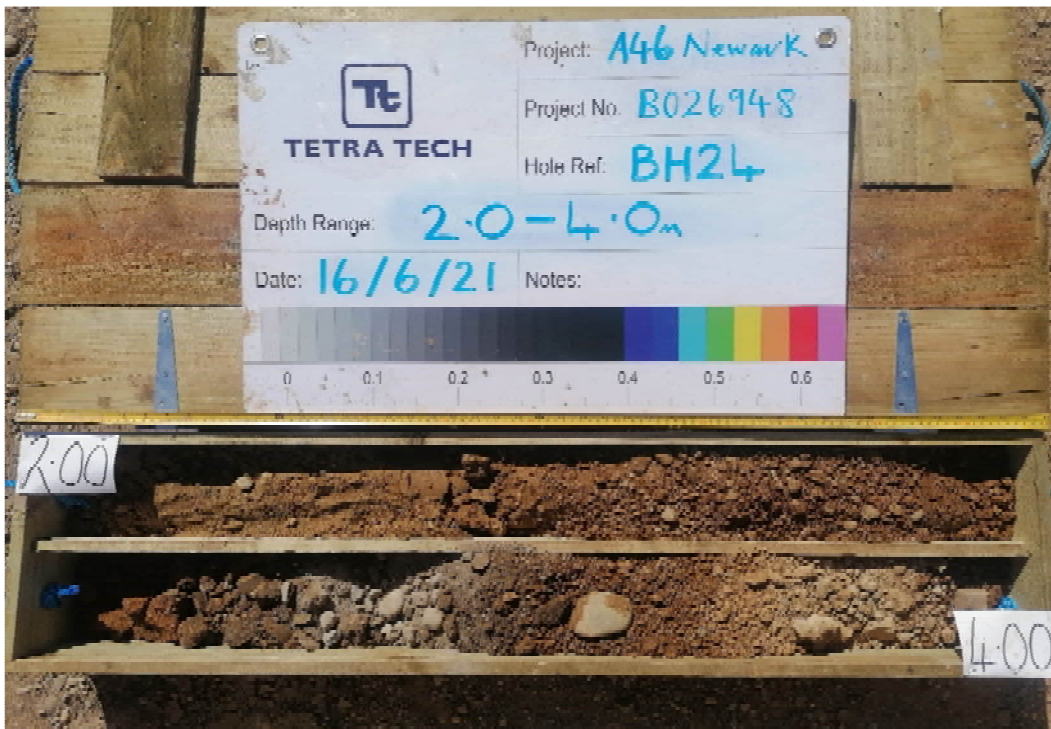


Plate 164 BH24 - 2.00 to 4.00m bgl

Tetra Tech
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321

Environmental Consultancy
Ground Technologies & Investigation



Project :-
A46 NNB

Project No.: B026948

Oct-21



Plate 165 BH24 - 4.00 to 6.00m bgl

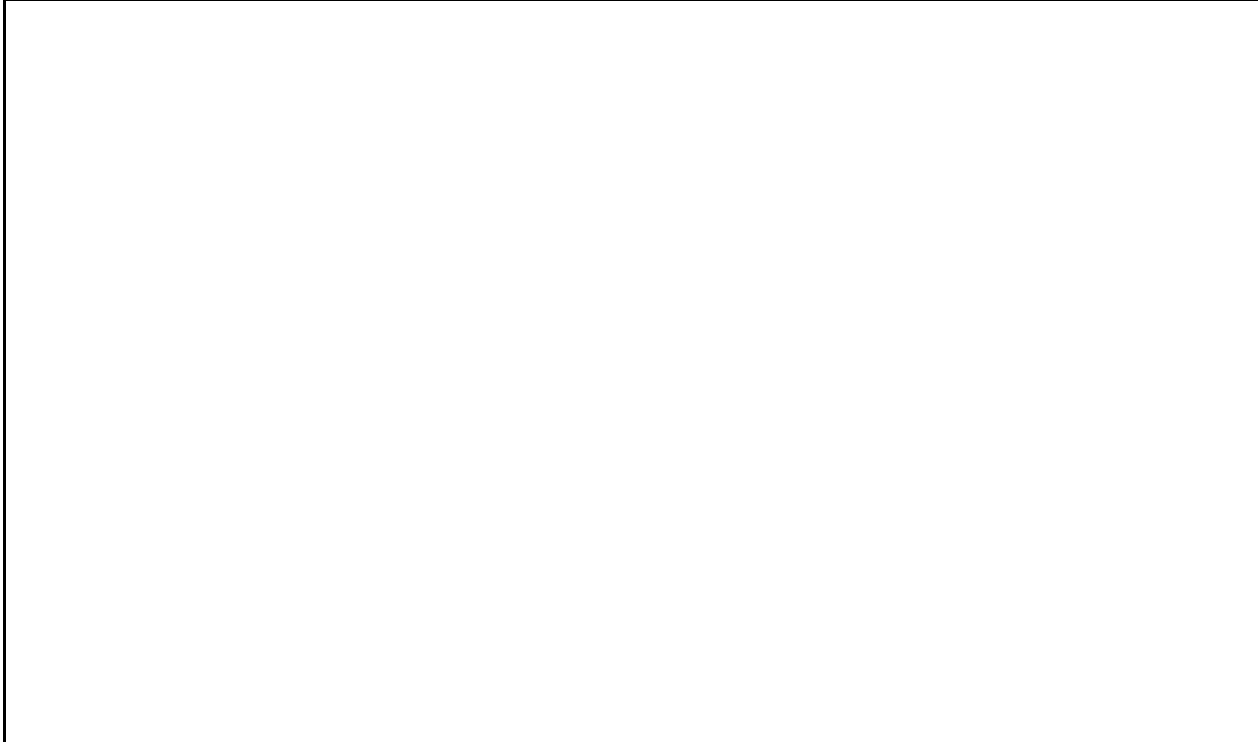



Plate 166 BLANK

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p> <p>Environmental Consultancy Ground Technologies & Investigation</p>  <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
	<p>Project No.: B026948</p>	<p>Oct-21</p>

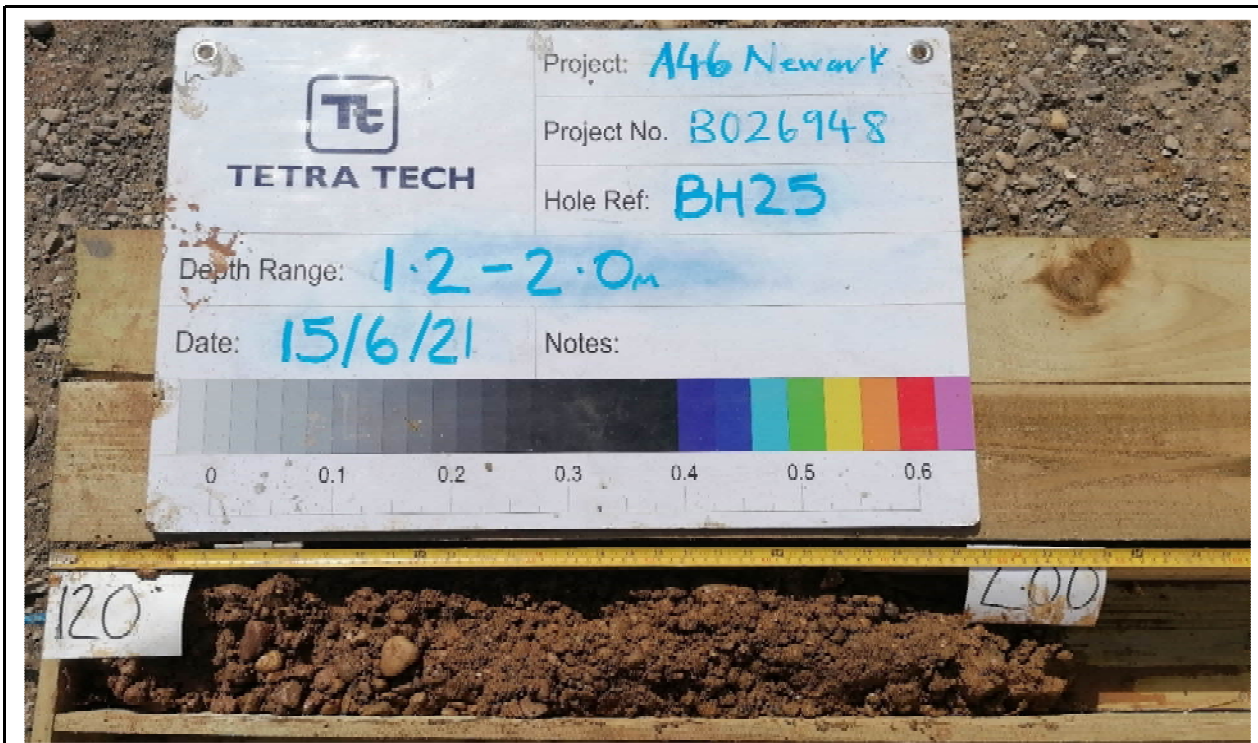


Plate 167 BH25 - 1.20 to 2.00m bgl

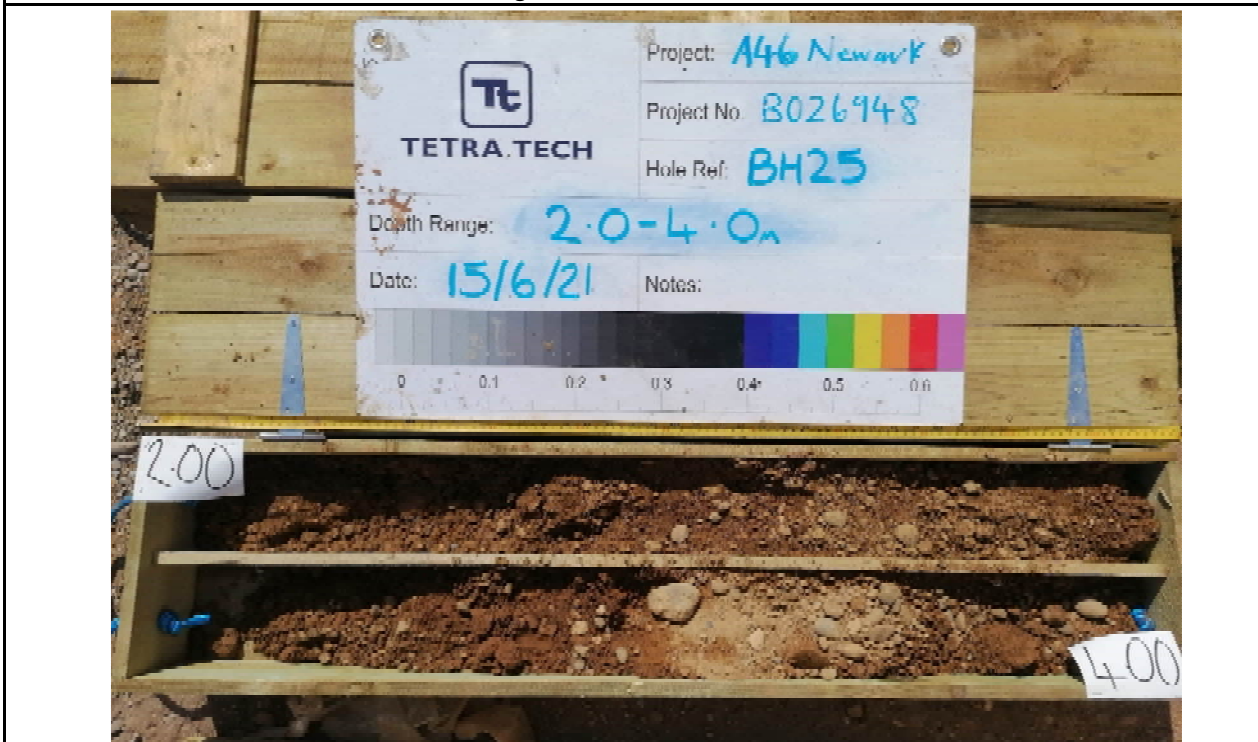


Plate 168 BH25 - 2.00 to 4.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>TETRA TECH</p> <p>Project :- A46 NNB</p>		
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<table border="1"> <tr> <td data-bbox="762 1915 1145 2049"> Project No.: B026948 </td> <td data-bbox="1145 1915 1396 2049"> Oct-21 </td> </tr> </table>	Project No.: B026948	Oct-21
Project No.: B026948	Oct-21		



Plate 169 BH25 - 4.00 to 6.00m bgl



Plate 170 BH25 - 6.00 to 8.00m bgl

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Project :-
A46 NNB

Project
No.:
B026948

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Plate 171 BH25 - 8.00 to 10.00m bgl

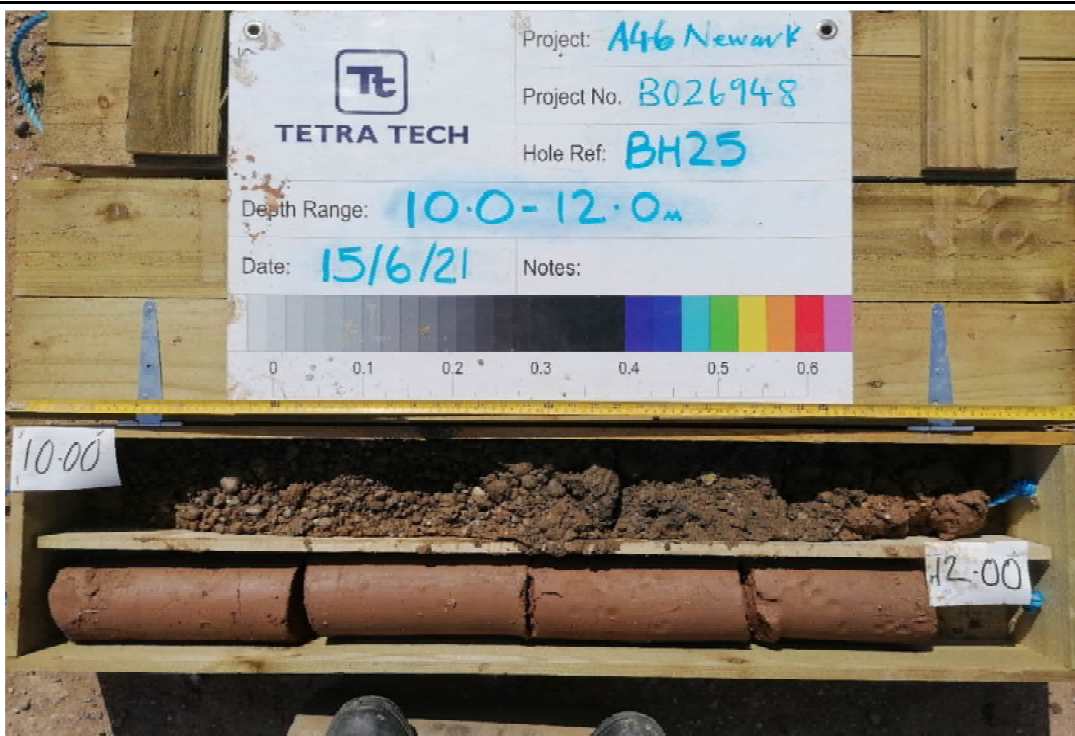


Plate 172 BH25 - 10.00 to 12.00m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p> <p>Environmental Consultancy Ground Technologies & Investigation</p>  <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
	<p>Project No.: B026948</p>	<p>Oct-21</p>



Plate 173 BH26 - 1.20 to 4.00m bgl



Plate 174 BH26 - 4.00 to 7.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>Project :- A46 NNB</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p> <p>Oct-21</p>



Plate 175 BH26 - 7.00 to 10.00m bgl



Plate 176 BH26 - 7.00 to 10.00m bgl (TEXTURE)


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		<p>Project No.: B026948</p>	<p>Oct-21</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>			



Plate 177 BH27 - 1.20 to 4.00m bgl



Plate 178 BH27 - 4.00 to 7.00m bgl

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Environmental Consultancy
Ground Technologies & Investigation

Project :-
A46 NNB

Project
No.:
B026948

Oct-21



Plate 179 BH27 - 7.00 to 10.00m bgl

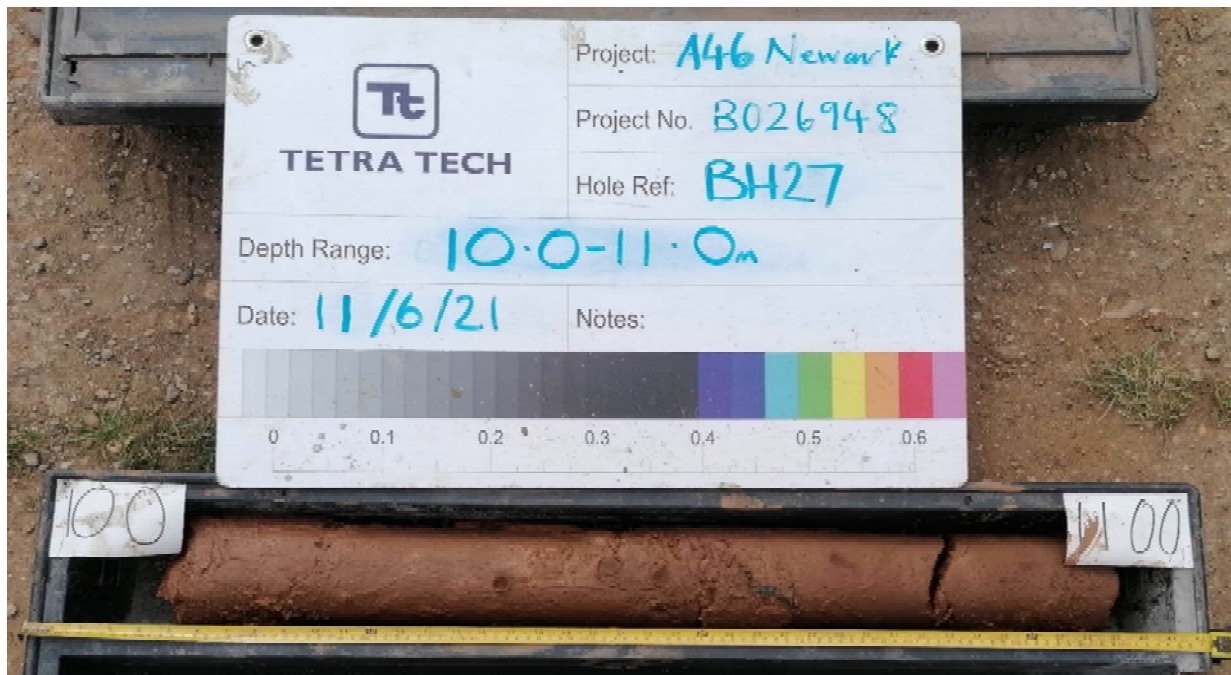



Plate 180 BH27 - 10.00 to 11.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		<p>Project No.: B026948</p> <p style="text-align: right;">Oct-21</p>	
<p>Environmental Consultancy Ground Technologies & Investigation</p>			

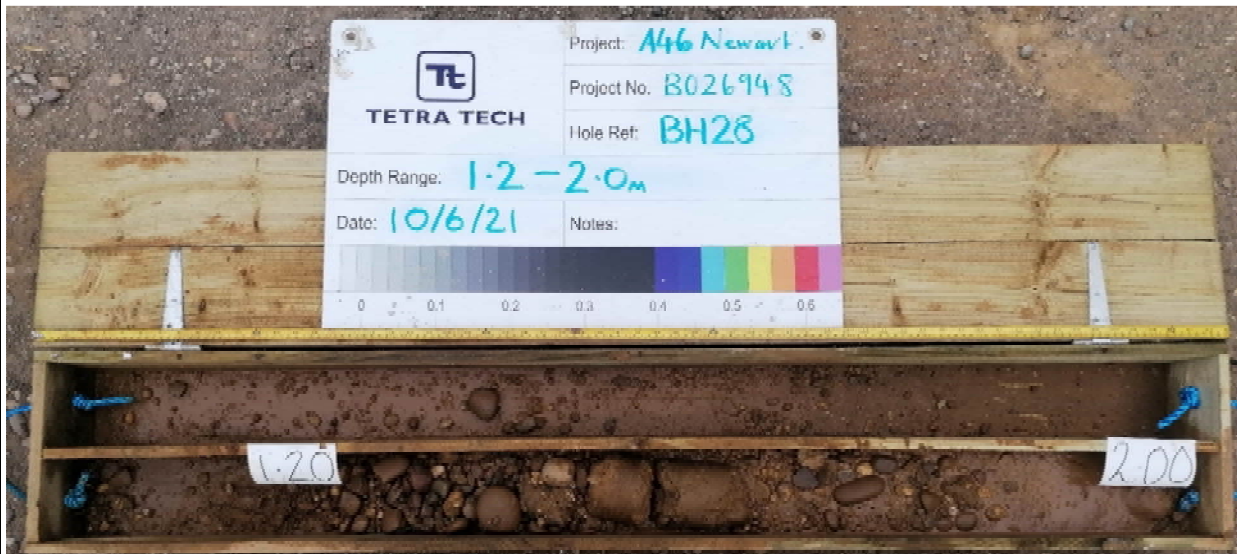



Plate 181 BH28 - 1.20 to 2.00m bgl



Plate 182 BH28 - 2.00 to 4.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	<p>Project :- A46 NNB</p>		
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>			
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<table border="1"> <tr> <td data-bbox="767 1919 1145 2056"> <p>Project No.: B026948</p> </td> <td data-bbox="1150 1919 1401 2056"> <p>Oct-21</p> </td> </tr> </table>	<p>Project No.: B026948</p>	<p>Oct-21</p>
<p>Project No.: B026948</p>	<p>Oct-21</p>		

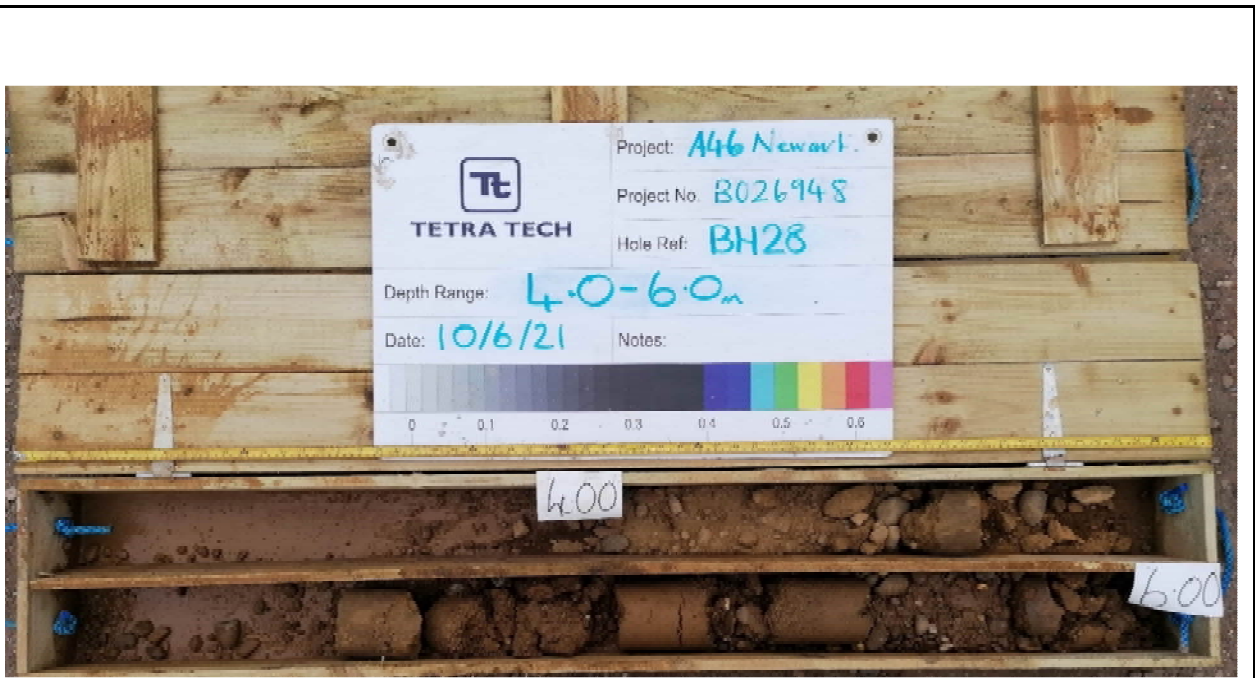


Plate 183 BH28 - 4.00 to 6.00m bgl



Plate 184 BH28 - 6.00 to 8.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	<p>Project :- A46 NNB</p>
<p>Tel: 029 20 829200 Fax: 029 20 455321</p> <p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p> <p style="text-align: right;">Oct-21</p>

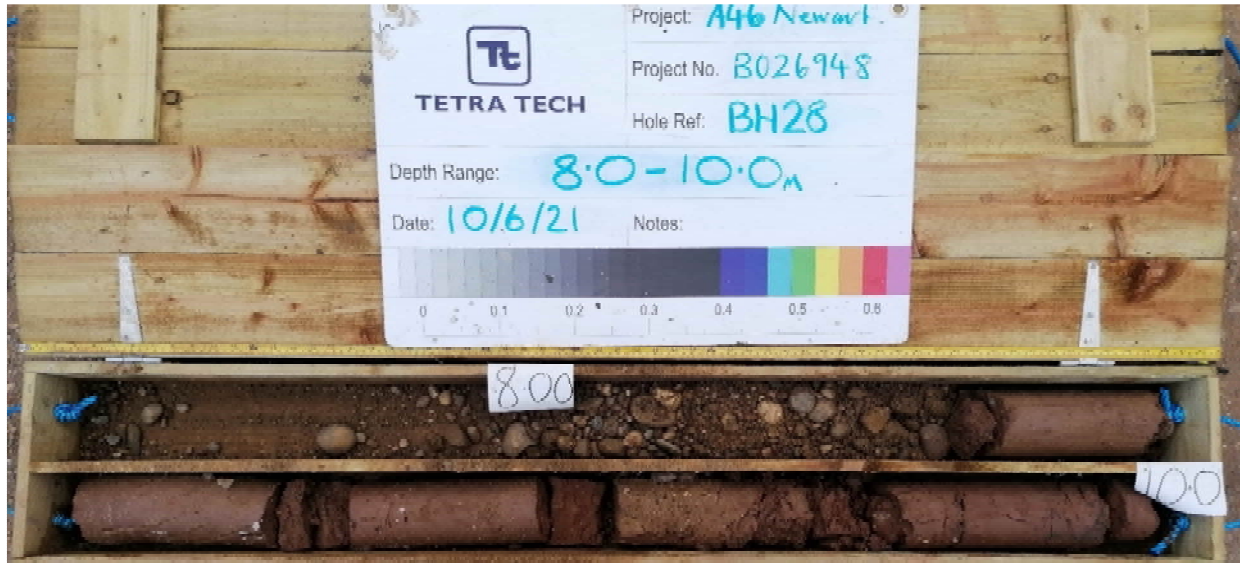


Plate 185 BH28 - 8.00 to 10.00m bgl

Plate 186 BLANK

Tetra Tech
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Environmental Consultancy
 Ground Technologies & Investigation

Project :-
 A46 NNB

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 No.:
 B026948

Oct-21



Plate 187 BH29 - 1.20 to 2.00m bgl

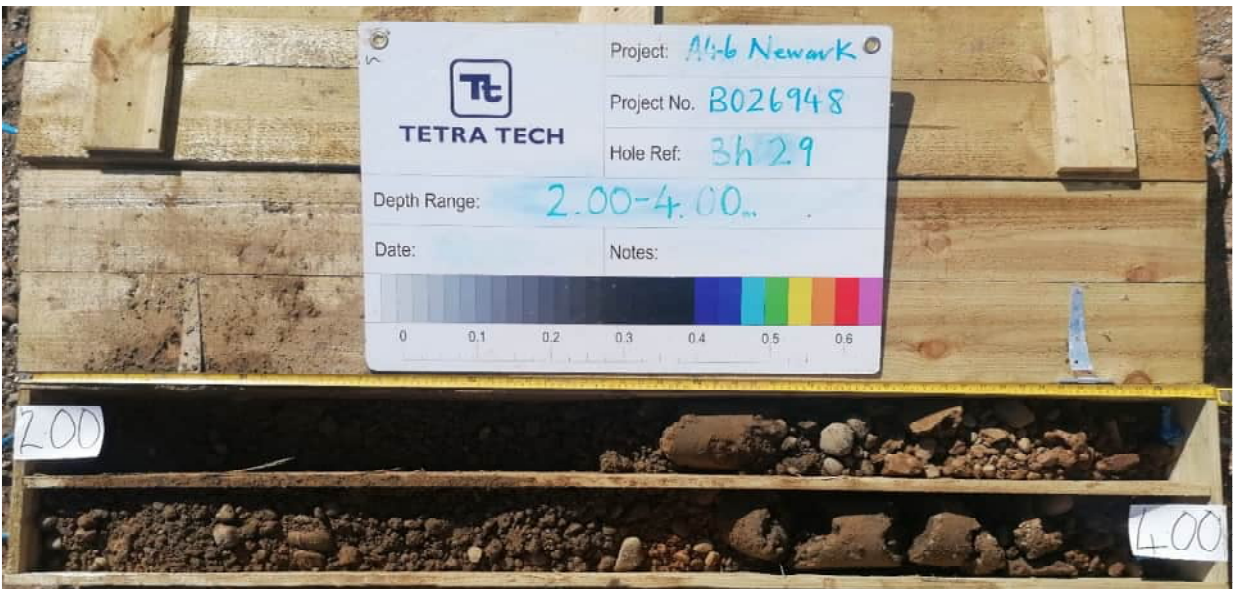


Plate 188 BH29 - 2.00 to 4.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>TETRA TECH</p> <p>Project :- A46 NNB</p>		
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<table border="1"> <tr> <td data-bbox="762 1915 1145 2051"> Project No.: B026948 </td> <td data-bbox="1145 1915 1399 2051"> Oct-21 </td> </tr> </table>	Project No.: B026948	Oct-21
Project No.: B026948	Oct-21		



Plate 189 BH29 - 4.00 to 6.00m bgl



Plate 190 BH29 - 6.00 to 8.00m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p> <p>Environmental Consultancy Ground Technologies & Investigation</p>  <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
	<p>Project No.: B026948</p>	<p>Oct-21</p>



Plate 191 BH29 - 8.00 to 10.00m bgl

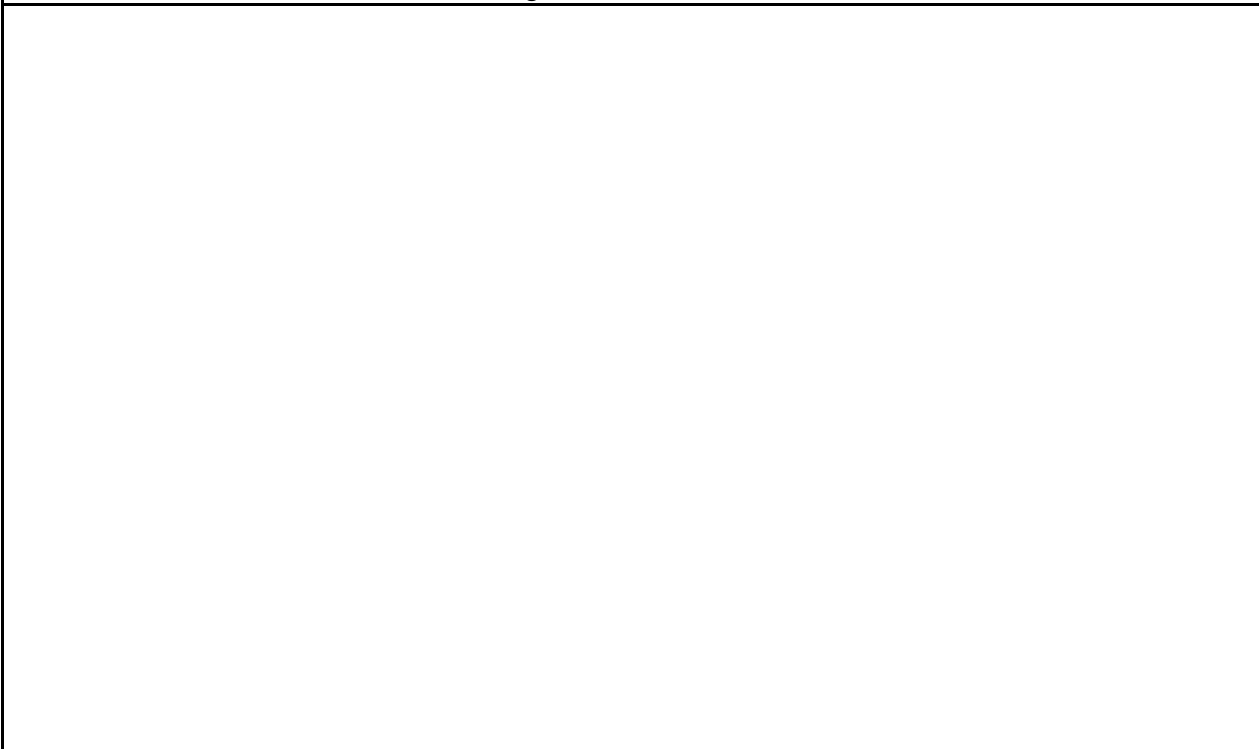


Plate 192 BLANK

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>TETRA TECH</p> <p>Project :- A46 NNB</p>		
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<table border="1"> <tr> <td data-bbox="762 1912 1145 2051"> Project No.: B026948 </td> <td data-bbox="1145 1912 1399 2051"> Oct-21 </td> </tr> </table>	Project No.: B026948	Oct-21
Project No.: B026948	Oct-21		



Plate 193 BH30 - 1.20 to 2.00m bgl



Plate 194 BH30 - 2.00 to 4.00m bgl

Tetra Tech
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TETRA TECH

Project :-
A46 NNB

Project
No.:
B026948

Oct-21



Plate 195 BH30 - 4.00 to 6.00m bgl



Plate 196 BH30 - 8.00 to 10.00m bgl

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Cardiff
CF24 0AD

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Environmental Consultancy
Ground Technologies & Investigation



Project :-
A46 NNB

Project
No.:
B026948

Oct-21



Plate 197 BH30 - 10.00 to 12.00m bgl

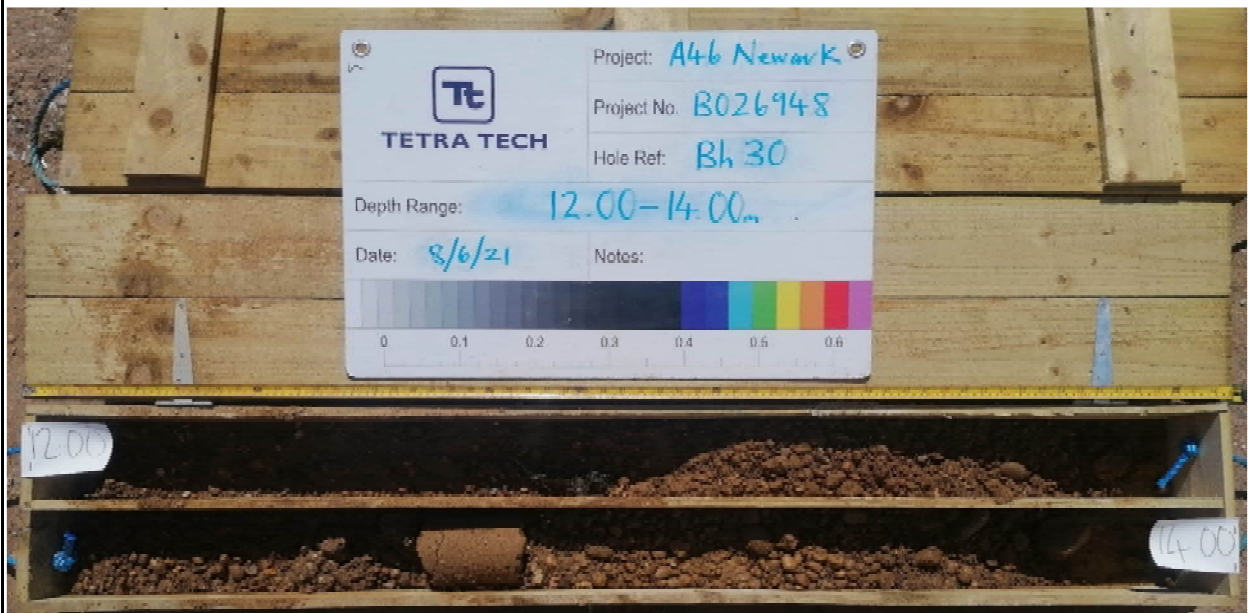


Plate 198 BH30 - 10.00 to 12.00m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		<p>Project No.: B026948</p>	<p>Oct-21</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>			



Plate 199 BH30 - 14.00 to 16.00m bgl

Plate 200 BLANK

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>		<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		<p>Project No.: B026948</p>	<p>Oct-21</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>			



Plate 201 BH31 - 1.20 to 2.40m bgl



Plate 202 BH31 - 4.00 to 6.00m bgl


<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	 <p>TETRA TECH</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		<p>Project No.: B026948</p>	<p>Feb-22</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>			



Plate 203 BH31 - 6.00 to 8.00m bgl

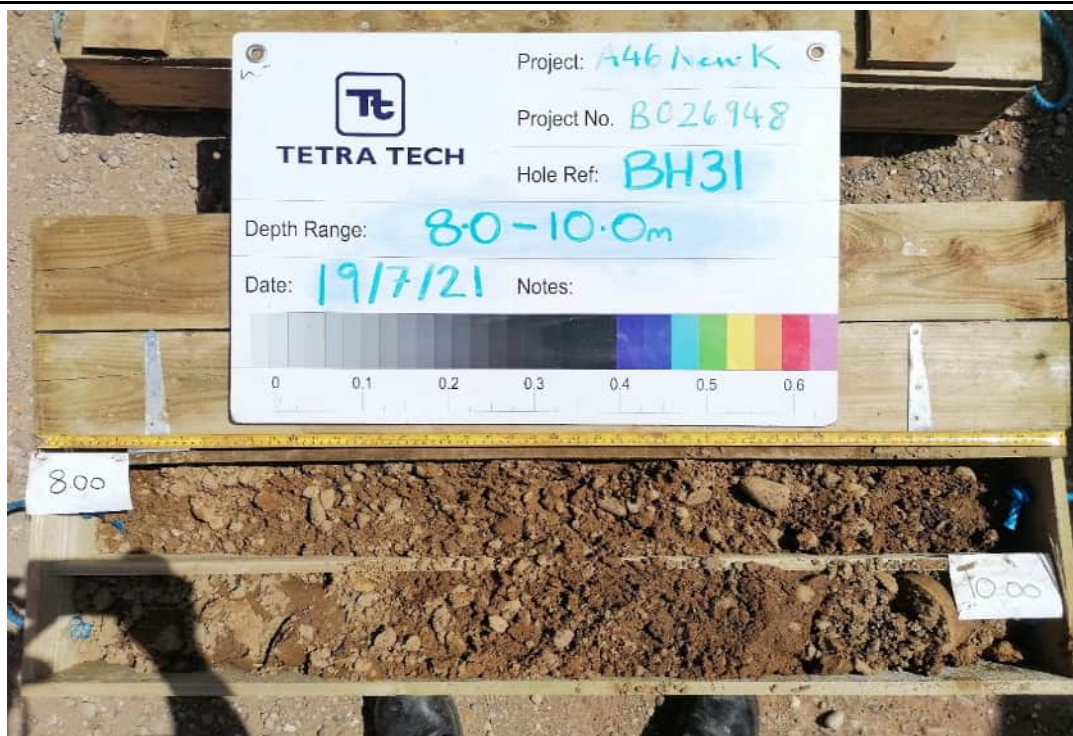


Plate 204 BH31 - 8.00 to 10.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>TETRA TECH</p> <p>Project :- A46 NNB</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p> <p>Oct-21</p>



Plate 205 BH31 - 10.00-12.00

Plate 206 BLANK

Tetra Tech
 5th Floor, Longcross Court
 47 Newport Road
 Cardiff
 CF24 0AD

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 Fax: 029 20 455321

Environmental Consultancy
 Ground Technologies & Investigation



Project :-
 A46 NNB

Project
 No.:
 B026948

Oct-21



Plate 207 BH32 - 1.20 to 2.00m bgl



Plate 208 BH32 - 2.00 to 4.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p>	<p>Project :- A46 NNB</p>	
<p>Tel: 029 20 829200 Fax: 029 20 455321</p>		
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p>	<p>Oct-21</p>

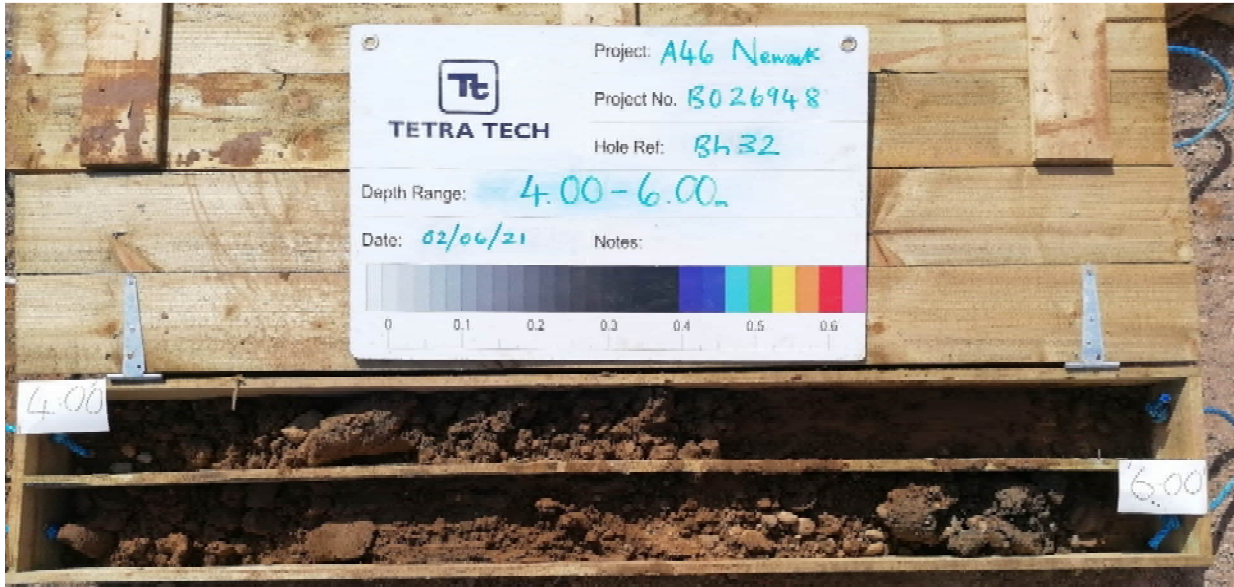


Plate 209 BH32 - 4.00 to 6.00m bgl



Plate 210 BH32 - 6.00 to 8.00m bgl

Tetra Tech
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD



Tel: 029 20 829200
Fax: 029 20 455321

Environmental Consultancy
Ground Technologies & Investigation

Project :-
A46 NNB

Project
No.:
B026948

Oct-21



Plate 211 BH33 - 2.00 to 4.00m bgl



Plate 212 BH33 - 4.00 to 6.00m bgl

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p>	<p>Project :- A46 NNB</p>
<p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project No.: B026948</p> <p style="text-align: right;">Oct-21</p>



Plate 213 BH32 - 6.00 to 8.00m bgl

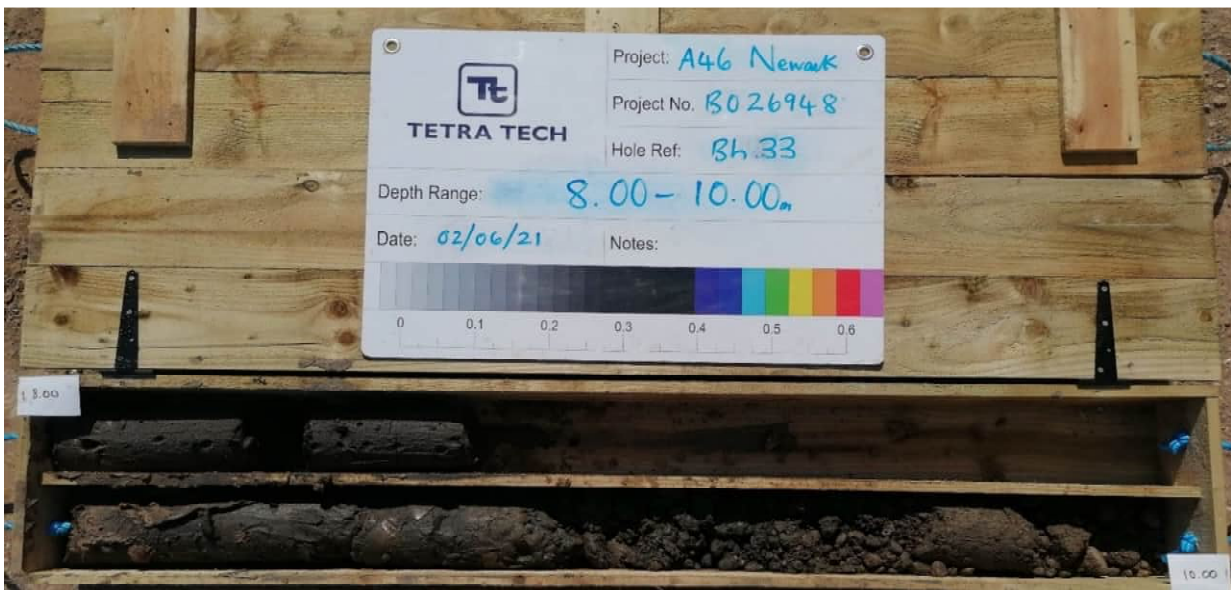


Plate 214 BH33 - 8.00 to 10.00m bgl

Tetra Tech
5th Floor, Longcross Court
47 Newport Road
Cardiff
CF24 0AD

Tel: 029 20 829200
Fax: 029 20 455321

Environmental Consultancy
Ground Technologies & Investigation



Project :-
A46 NNB

Project
No.:
B026948

Oct-21



Plate 215 BH33 - 10.00 to 12.00m bgl

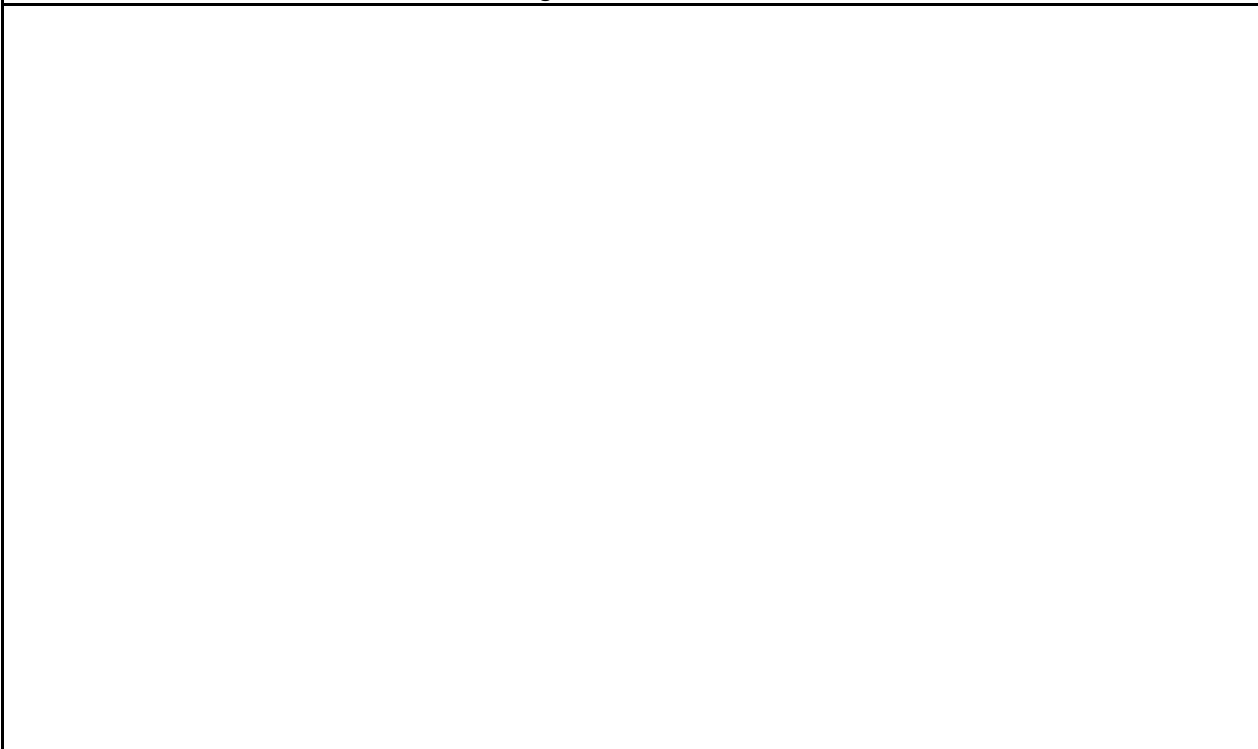


Plate 216 BLANK

<p>Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD</p> <p>Tel: 029 20 829200 Fax: 029 20 455321</p> <p>Environmental Consultancy Ground Technologies & Investigation</p>	<p>Project :- A46 NNB</p>	
	<p>Project No.: B026948</p>	<p>Oct-21</p>



Project: **A46 Newark - Northern Bypass**
 Location: **Newark-on-Trent, Nottinghamshire**
 Client: **Highways England**

Location Details
 Easting: 478066.70 Northing: 352987.84
 Level: 10.80mAOD Depth: 2.20m
 Logger: AH Type: TP
 Ordnance Survey Great Britain National Grid


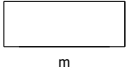
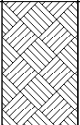
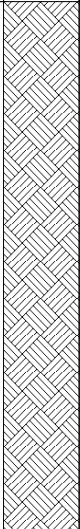
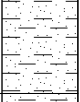
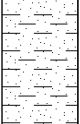

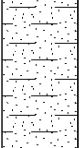

Status
FINAL


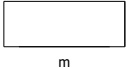





Pit Number
TP02
 Sheet 1 of 1


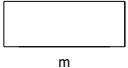


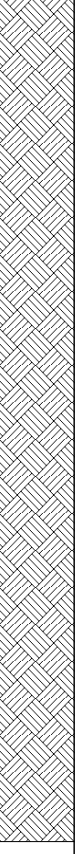



Pit Dimensions 	Hole Information		Groundwater			Remarks Strike at 2.00m, rose to 1.20m	Scale: 1:25
	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Checked By: NEB		
	Shoring: None	2.00	1.20	20	Approved By: JC	Start Date: 07/06/2021	
	Stability: Stable				Finish Date: 07/06/2021		
	Plant: JCB 3CX						


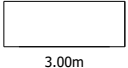
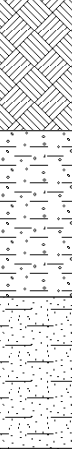

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
						Depth (m)	Ref	Tests / Results
Soft dark brown sandy CLAY. Sand is fine to medium. (TOPSOIL) TOP		0.55	10.24			0.20	ES001	PID 0.20m, 0.0ppm
Soft orangish brown sandy CLAY. Sand is fine to medium. (ALLUVIUM)						0.50	D001	HV 0.60m, (p)=34.0 kPa (r)=34.0 kPa
		0.80 - 1.00	B001 B1					
Dark brown SAND AND GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to sub rounded quartzite. (ALLUVIUM)		1.00	D002 ES002	HV 1.00m, (p)=40.0 kPa (r)=40.0 kPa PID 1.00m, 0.0ppm				
		1.50 - 1.70	D003 B002					
EOH at 2.20m - Target depth achieved		2.20	8.60					


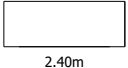




Observations / Remarks 1. Upon completion exploratory hole backfilled with arisings.	3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
	Project Number 784-B026948


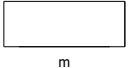


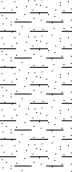

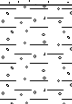




	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 478089.80 Northing: 353168.50 Level: 10.46mAOD Depth: 1.75m Logger: AH Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP03 Sheet 1 of 1
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX	Groundwater Strike (m): 1.30 Rose To (m): 1.10 After (mins): 20 Remarks:				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 07/06/2021 Finish Date: 07/06/2021	
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing	
Grass over: Dark slightly sandy CLAY. Sand is fine to medium. (TOPSOIL) TOP		0.42	10.04			0.20 ES001	HV 0.50m, (p)=55.0 kPa (r)=55.0 kPa
Medium strength dark brown mottled orangish brown slightly sandy CLAY. Sand is fine to medium. (ALLUVIUM)		0.75	9.72			0.50 0.50 - 0.60 D001 B001	
Very soft dark brown mottled orangish brown slightly gravelly sandy CLAY. Gravel is fine to medium. Gravel is fine sub angular quartzite. (ALLUVIUM)		1.25	9.22			1.00 1.00 1.10 - 1.20 1.10 - 1.20 D002 ES002 B002 B2	
Orangish brown mottled grey slightly clayey medium to coarse SAND. band of grey silty clay observed. (ALLUVIUM)		1.50	8.72			1.50 1.60 - 1.75 D003 B003	
EOH at 1.75m - Target depth achieved		1.75	8.72				
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.						3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
						Project Number 784-B026948	


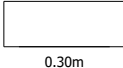



	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 478160.33 Northing: 353427.97 Level: 10.35mAOD Depth: 2.50m Logger: AH Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP04 Sheet 1 of 1	
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX	Groundwater Strike (m): 1.40 Rose To (m): 1.20 After (mins): 20 Remarks:				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 07/06/2021 Finish Date: 07/06/2021		
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Grass over: dark brown slightly sandy CLAY. Sand is fine to medium. Frequent rootlets observed. (TOPSOIL) TOP		0.30	10.05			0.10	ES001	
Medium strength reddish brown CLAY. Frequent rootlets observed. (ALLUVIUM)		0.80	9.55			0.50 0.50 - 0.70	D001 B001	HV 0.50m, (p)=52.0 kPa (r)=52.0 kPa
Medium strength reddish brown mottled brown slightly gravelly sandy CLAY. Gravel is fine to medium sub angular to sub rounded quartzite. Sand is fine to medium. (ALLUVIUM)		1.40	8.95			1.00 1.00	D002 ES002	HV 1.00m, (p)=58.0 kPa (r)=58.0 kPa
Low strength bluish grey slightly sandy very silty CLAY. Sand is fine to medium. (ALLUVIUM)		2.00	8.35			1.50 1.50 - 1.70 1.50 - 1.70 1.60	D003 B002 B2 ES003	HV 1.50m, (p)=33.0 kPa (r)=33.0 kPa
Dark grey slightly fine to coarse SAND. (ALLUVIUM)		2.50	7.85					
EOH at 2.50m - Target depth achieved								
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.						3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
						Project Number 784-B026948		


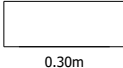


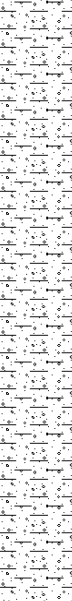

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 478240.70 Northing: 353597.51 Level: 10.30mAOD Depth: 2.80m Logger: AH Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP05 Sheet 1 of 1
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX	Groundwater Strike (m): 1.30 Rose To (m): 1.20 After (mins): 20 Remarks:				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 07/06/2021 Finish Date: 07/06/2021	
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing	
Grass over: Low strength dark brown sandy, becoming very sandy, CLAY. Sand is fine to medium. Occasional medium to coarse sub rounded quartzite. (TOPSOIL) TOP		0.90	9.40			Depth (m): 0.20, 0.50 - 0.70, 1.00, 1.10 - 1.20, 1.60, 2.00, 2.20 - 2.40 Ref: ES001, D001 B001, D002 ES002 B002, B4 D003, ES003, B003	Tests / Results: HV 0.50m, (p)=35.0 kPa (r)=35.0 kPa
Reddish brown very clayey fine to coarse SAND. (ALLUVIUM)		1.50	8.80				
Dark bluish grey clayey medium to coarse organic medium to coarse SAND. (ALLUVIUM)		2.10	8.20				
Light brown SAND AND GRAVEL. Sand is medium to coarse. Gravel is medium to coarse sub angular to sub rounded quartzite. (ALLUVIUM)		2.80	7.50				
EOH at 2.80m - Target depth achieved							
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.						3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320 Project Number 784-B026948	


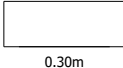
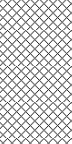

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 478594.38 Northing: 354098.91 Level: 9.98mAOD Depth: 1.50m Logger: SC Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP08 Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Collapse of both walls (0.5m) from 1.0 to 1.5m bgl Plant: 360 Tracked Excavator		Groundwater Strike (m): 1.30 Rose To (m): 1.20 After (mins): 20 Remarks: Strike at 1.30m, 1.20m after 20 minutes				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 15/07/2021 Finish Date: 15/07/2021		
Strata Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Crop onto firm to stiff mid to dark brown slightly sandy slightly gravelly CLAY, with occasional rootlets of up to 1mm diameter and rare subrounded to subangular (60mm) cobbles of brick. Gravel is subangular to angular fine to coarse glass and fragments of brick. Sand is fine to medium. (TOPSOIL) TOP			0.45	9.52			0.10 - 0.20 ESES1 0.20 - 0.30 DD6 0.20 - 0.40 BB2	HV 0.50m, (p)=45.0 kPa (r)=45.0 kPa	
Medium strength brown mottled light orange slightly gravelly CLAY. Gravel is subangular to angular fine dark grey siltstone/carbonaceous mudstone. (ALLUVIUM)							0.50 - 0.60 D4 0.50 - 0.60 DD4 0.50 - 0.60 ESES3 0.50 - 1.00 B5 0.50 - 1.00 BB5		
Light to mid brown slightly clayey medium to coarse SAND, with occasional irregular (5-10mm) pockets of fine organic matter. (ALLUVIUM) <i>mottled orange brown from 1.20m to 1.50m bgl.</i>							1.00		
EOH at 1.50m - Terminated due to high water table and instability of trial pit walls			1.50	8.48					
Observations / Remarks 1. Upon completion completion exploratory hole backfilled with arisings.							3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
							Project Number 784-B026948		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 478803.78 Northing: 354340.38 Level: 10.34mAOD Depth: 2.00m Logger: AH Type: TP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP09</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX			Groundwater Strike (m): 2.00 Rose To (m): 0.90 After (mins): 20 Remarks: Strike at 2.00m, 0.90m after 20 minutes			Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 03/06/2021 Finish Date: 03/06/2021			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Grass over: Dark brown clayey fine to medium SAND. (TOPSOIL) TOP				0.10				0.10	ES001	
Medium strength of orangish brown sandy CLAY. Sand is fine to coarse. Bands of fine to medium sand observed. (ALLUVIUM)				0.40	9.94			0.50 0.50 0.60	8001 D001 ES002	HV 0.50m, (p)=43.0 kPa (r)=43.0 kPa HV 0.80m, (p)=60.0 kPa (r)=60.0 kPa
Dark orangish brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to medium sub rounded flint and quartzite. (ALLUVIUM)				0.90	9.44	▼		1.00 1.00	8002 D002	
Dark brown sandy GRAVEL of fine to coarse sub angular to sub rounded flint and quartzite. Sand is medium. (ALLUVIUM)				1.60	8.74			1.70 1.80 - 2.00	ES003 8003	
EOH at 2.00m - Target depth achieved				2.00	8.35	▽		2.00	D003	
Observations / Remarks 1. Upon completion completion exploratory hole backfilled with arisings.									3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320 Project Number <h2 style="text-align: center;">784-B026948</h2>	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 479181.24 Northing: 354527.75 Level: 10.32mAOD Depth: 2.50m Logger: AH Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP11 Sheet 1 of 1
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX	Groundwater Strike (m): 2.20, 1.80 Rose To (m): 0.00, 1.70 After (mins): 0, 20 Remarks: Strike at 1.80m, 1.70m after 20 minutes				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 09/06/2021 Finish Date: 09/06/2021	
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing	
Grass over: Soft to firm dark brown sandy CLAY. Sand is fine to medium. (TOPSOIL) TOP		0.80	9.52			Depth (m): 0.20, 0.50, 0.50 - 0.70 Ref: ES001, D001 B001 Tests / Results: PID 0.20m, 0.5ppm; HV 0.50m, (p)=37.0 kPa (r)=37.0 kPa	
Soft to firm dark brown mottled orangish brown slightly sandy CLAY. Sand is fine to medium. (ALLUVIUM)						Depth (m): 0.90, 1.00, 1.00 Ref: ES002, D002 DZ Tests / Results: PID 0.90m, 0.0ppm; HV 1.00m, (p)=49.0 kPa (r)=49.0 kPa	1
Orangish brown gravelly slightly clayey fine to medium SAND. (ALLUVIUM)		1.40	8.91			Depth (m): 1.50, 1.50 - 1.70, 1.50 - 1.70 Ref: ES003 B002 B2 Tests / Results: PID 1.50m, 0.0ppm	
Orangish brown gravelly medium to coarse SAND. Gravel is fine to coarse sub angular to rounded quartzite and flint. (ALLUVIUM)		1.80	8.52			Depth (m): 1.70 Ref: D003 Tests / Results:	2
Dark brown SAND AND GRAVEL. Sand is fine to coarse. Gravel is fine to coarse sub angular to sub rounded quartzite and flint. (ALLUVIUM)		2.20	8.12			Depth (m): 2.30 - 2.50, 2.40 Ref: B003, D004 Tests / Results:	
EOH at 2.50m - Target depth achieved		2.50	7.82				
							3
							4
							5
Observations / Remarks 1. Upon completion completion exploratory hole backfilled with arisings.						3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
						Project Number 784-B026948	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 479436.60 Northing: 354607.10 Level: 10.19mAOD Depth: 1.20m Logger: AH Type: IP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP13 Sheet 1 of 1
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated	Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 11/06/2021 Finish Date: 11/06/2021	
Strata Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results
Limestone. (MADE GROUND) MGR			0.10	10.09			
Membrane. (MADE GROUND) MGR Yellowish brown gravelly fine to medium SAND. Gravel is medium to coarse sub angular limestone. (MADE GROUND) MGR			0.12	10.07			
Dark brown slightly gravelly silty fine to medium SAND. Gravel is fine to medium sub angular limestone and concrete. (MADE GROUND) MGR			0.20				ES001 PID 0.20m, 0.0ppm
			0.30				D001
			0.50				D002
Orangish brown silty fine to coarse SAND. (ALLUVIUM)			0.70	9.49			
			0.75				D003
		0.80				ES002	
		1.00	9.19			1.00 - 1.20 8001	
EOH at 1.20m - Target depth achieved			1.20	8.99			
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.							3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
							Project Number 784-B026948

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 479335.38 Northing: 354583.81 Level: 9.57mAOD Depth: 1.20m Logger: TK Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP15 Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 26/04/2021 Finish Date: 26/04/2021			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results			
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP				0.40	9.17			0.10	ES1		
								0.20 - 0.40	B2		
Soft brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. (ALLUVIUM)				1.20	8.37			0.50 - 0.90	B3		
EOH at 1.20m - Target depth achieved								1.00	ES4		
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.											3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
										Project Number 784-B026948	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 479330.71 Northing: 354701.47 Level: 10.27mAOD Depth: 0.20m Logger: TK Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP18</h1> Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 18/06/2021 Finish Date: 18/06/2021	
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results	
Grass over dark brown slightly silty slightly gravelly fine to medium SAND. Gravel is fine sub angular quartzite and concrete. (MADE GROUND) MGR				0.20 0.20	10.07 10.07				
CONCRETE. (MADE GROUND) MGR EOH at 0.20m - Terminated due to concrete obstruction									
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
								Project Number <h2 style="text-align: center;">784-B026948</h2>	

1

2

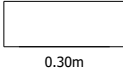


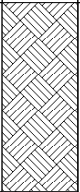
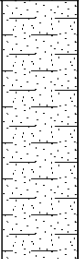

Project: **A46 Newark - Northern Bypass**
 Location: **Newark-on-Trent, Nottinghamshire**
 Client: **Highways England**

Location Details
 Easting: 479412.77 Northing: 354710.46
 Level: 9.92mAOD Depth: 1.20m
 Logger: TK Type: IP
 Ordnance Survey Great Britain National Grid


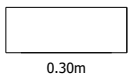
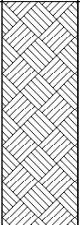
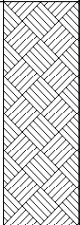
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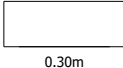
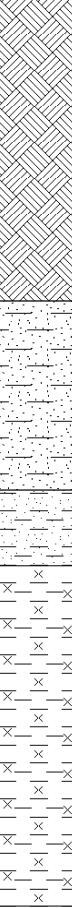

Pit Number
TP20
 Sheet 1 of 1


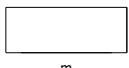
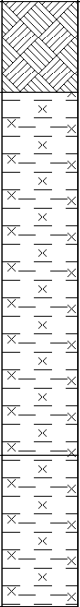
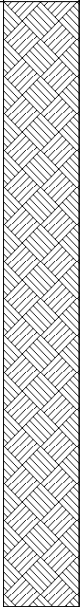
Pit Dimensions 	Hole Information Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated		Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 11/06/2021 Finish Date: 11/06/2021

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
						Depth (m)	Ref	Tests / Results
Grass over: Dark brown sandy CLAY. Sand is fine to medium. (TOPSOIL) TOP						0.20	ES001	PID 0.20m, 0.1ppm
Dark brown clayey fine to medium SAND. (ALLUVIUM)		0.25	9.67			0.30	D001	
						0.50	D002	
Medium strength reddish brown mottled brown slightly sandy CLAY. Sand is fine to medium. (ALLUVIUM)		0.60	9.32			0.70	D003	PID 0.70m, 0.0ppm
						0.70	D3	
						0.70	ES002	HV 0.80m, (p)=45.0 kPa (r)=45.0 kPa
EOH at 1.20m - Target depth achieved		1.20	8.72					HV 1.20m, (p)=49.0 kPa (r)=49.0 kPa

Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.	3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
	Project Number 784-B026948

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481106.27 Northing: 355864.40 Level: 10.54mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP25 Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 29/04/2021 Finish Date: 29/04/2021			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results			
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.30	10.24			0.10	ES1 B2		
Orangish brown slightly gravelly sandy silty CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								0.30 - 0.80			B3
EOH at 1.20m - Target depth achieved				1.20	9.34			1.00	ES4		
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.										3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
										Project Number 784-B026948	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 480535.13 Northing: 356046.33 Level: 13.04mAOD Depth: 1.20m Logger: TK Type: IP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP30 Sheet 1 of 1				
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated		Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 11/06/2021 Finish Date: 11/06/2021				
Strata Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results				
Grass over: Dark brown silty fine to medium SAND. (TOPSOIL) TOP			0.40	12.64			0.20	ES001	PID 0.20m, 0.0ppm		
							0.30	D001			
Reddish brown slightly clayey fine to medium SAND. (ALLUVIUM)							0.50 0.50 - 0.60	D002 B001			
Low strength reddish brown sandy CLAY. Sand is fine to medium. (MERCIA MUDSTONE GROUP)							0.65	12.39	0.70	D003	HV 0.70m, (p)=42.0 kPa (r)=42.0 kPa
Low strength reddish brown silty CLAY. (MERCIA MUDSTONE GROUP)							0.75	12.29	0.80	ES002	PID 0.80m, 0.0ppm
EOH at 1.20m - Target depth achieved			1.20	11.84							
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.							3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320				
							Project Number 784-B026948				

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481346.95 Northing: 356078.42 Level: 15.28mAOD Depth: 2.00m Logger: AH Type: TP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP31</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 09/06/2021 Finish Date: 09/06/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly silty very gravelly fine to medium SAND. Gravel is fine to coarse sub angular to sub rounded quartzite. (TOPSOIL) TOP				0.30	14.98			0.20	ES001	PID 0.20m, 0.0ppm
Medium strength reddish brown slightly gravelly slightly silty SAND. (MERCIA MUDSTONE GROUP) <i>Bands of reddish brown fine to coarse SAND from 0.30m to 0.50m.</i>								0.50 - 0.70	D001 B001	HV 0.50m, (p)=60.0 kPa (r)=60.0 kPa
								0.70	ES002	PID 0.70m, 0.0ppm
								1.00	D002	HV 1.00m, (p)=70.0 kPa (r)=70.0 kPa HV 1.01m, (p)=73.0 kPa (r)=73.0 kPa
Medium strength stiff reddish brown silty CLAY. (MERCIA MUDSTONE GROUP)								1.50	13.78	
EOH at 2.00m - Target depth achieved			2.00	13.28				1.50	D003	HV 2.00m, (p)=75.0 kPa (r)=75.0 kPa
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		



Project: **A46 Newark - Northern Bypass**
 Location: **Newark-on-Trent, Nottinghamshire**
 Client: **Highways England**

Location Details
 Easting: 480724.24 Northing: 356090.76
 Level: 11.11mAOD Depth: 2.70m
 Logger: AH Type: TP
 Ordnance Survey Great Britain National Grid


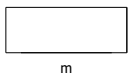
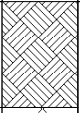
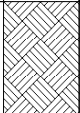
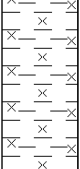
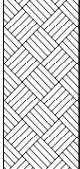
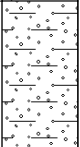
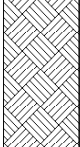
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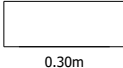




Pit Number
TP32
 Sheet 1 of 1

Pit Dimensions 	Hole Information		Groundwater				Scale: 1:25
	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: NEB	
	Shoring: None					Approved By: JC	
	Stability: Stable					Start Date: 01/06/2021	
	Plant: JCB 3CX					Finish Date: 01/06/2021	

Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
						Depth (m)	Ref	Tests / Results
Dark brown slightly gravelly silty fine to medium SAND. Gravel is fine to medium sub angular flint. (TOPSOIL) TOP						0.20	ES001	
						0.50	D001	
Dark brown gravelly fine to medium SAND. Gravel is fine to coarse sub angular to sub rounded flint (ALLUVIUM)		0.60	10.51			0.70	D002	
						0.70	ES002	
						0.80	B001	
Reddish brown gravelly slightly clayey slightly silty fine to coarse SAND. Gravel is fine to coarse sub angular strong mudstone. (ALLUVIUM)		1.00	10.11					
						1.50	D003	
						1.50	ES003	
						1.80	B002	
						2.50	B003	
						2.50	D004	
EOH at 2.70m - Target depth achieved		2.70	8.41					


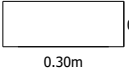




Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.	3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
	Project Number 784-B026948


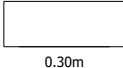




	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England	Location Details Easting: 480540.50 Northing: 356095.14 Level: 12.88mAOD Depth: 1.50m Logger: AH Type: TP Ordnance Survey Great Britain National Grid				Status FINAL	Pit Number TP33 Sheet 1 of 1	
	Hole Information Pit Dimensions:  m Orientation: ° Shoring: None Stability: Stable Plant: JCB 3CX	Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:25 Checked By: NEB Approved By: JC Start Date: 07/06/2021 Finish Date: 07/06/2021		
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Soft dark brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse sub angular to sub rounded quartzite. TOP		0.35	12.53			0.20	ES001	PID 0.20m, 0.1ppm
Medium becoming low strength reddish brown slightly silty CLAY. (MERCIA MUDSTONE GROUP)		1.00	11.88			0.50 0.50 0.50 0.50 - 0.70	D001 D1 ES002 B001	HV 0.50m, (p)=42.0 kPa (r)=42.0 kPa PID 0.50m, 0.1ppm HV 0.80m, (p)=39.0 kPa (r)=39.0 kPa
Reddish brown slightly clayey GRAVEL of fine to medium angular to sub angular mudstone. (MERCIA MUDSTONE GROUP)		1.50	11.38			1.20 1.20 - 1.40	D002 B002	
EOH at 1.50m - Target depth achieved								
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.							3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
							Project Number 784-B026948	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481663.40 Northing: 356129.95 Level: 17.06mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP34 Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly slightly silty fine to coarse SAND. Gravel is sub-angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.25	16.80			0.10	D2	
								0.10	ES1	
Brown and orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	15.86			0.50	ES3	
								0.60 - 1.00	B4	
EOH at 1.20m - Target depth achieved								1.20	15.86	1.20
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.									3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
									Project Number 784-B026948	

1

2

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481523.80 Northing: 356134.94 Level: 14.52mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP35</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  0.30m Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.50	14.02			0.10	ES1	
Brown and orangish brown gravelly slightly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	13.32			0.70	ES3	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.			3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320							
			Project Number <h2 style="text-align: center;">784-B026948</h2>							

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481502.43 Northing: 356172.83 Level: 14.38mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP36</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  0.30m Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.50	13.88			0.10	ES1	
								0.20 - 0.40	B2	
Brown and orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	13.18			0.60 - 1.00	B3	
								1.00	ES4	
EOH at 1.20m - Target depth achieved								1.20	D5	
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.									3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
									Project Number <h2 style="text-align: center;">784-B026948</h2>	

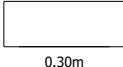


Project: **A46 Newark - Northern Bypass**
 Location: **Newark-on-Trent, Nottinghamshire**
 Client: **Highways England**

Location Details
 Easting: 481703.36 Northing: 356166.69
 Level: 17.57mAOD Depth: 1.20m
 Logger: SC Type: IP
 Ordnance Survey Great Britain National Grid


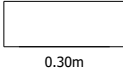



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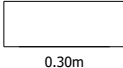
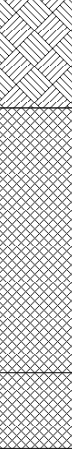

Pit Number
TP37
 Sheet 1 of 1


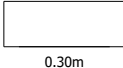




Hole Information		Groundwater				Scale: 1:10
Pit Dimensions 	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: NEB
	Shoring: None					Approved By: JC
	Stability: Stable					Start Date: 15/04/2021
	Plant: Hand Excavated					Finish Date: 15/04/2021


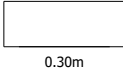




Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
						Depth (m)	Ref	Tests / Results
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP		0.10 - 0.10				0.10 0.10	D2 ES1	
Brown gravelly slightly silty fine to coarse SAND. Rare brick fragments. Silt is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (MADE GROUND) MGR		0.20	17.37			0.40 - 0.80	B3	
						0.90	ES4	
EOH at 1.20m - Target depth achieved		1.20	16.37					


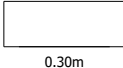




Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.	3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
	Project Number 784-B026948

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481557.23 Northing: 356206.99 Level: 15.07mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP38 Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results			
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.50	14.57			0.10	ES1		
								0.20 - 0.50	B2		
Brown and orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	13.87			0.60	ES3		
EOH at 1.20m - Target depth achieved								0.80 - 1.20	B4		
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.										3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
										Project Number 784-B026948	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481763.81 Northing: 356237.22 Level: 18.36mAOD Depth: 0.60m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP39</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.15	18.21			0.10	D2	
Brown gravelly slightly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of various lithologies. Silt is fine to coarse. (MADE GROUND) MGR								0.20 - 0.40	B3	
Light grey CONCRETE. (MADE GROUND) MGR <i>Solid concrete obstruction encountered at 0.5m bgl. Unable to break through</i>								0.40	ES4	
EOH at 0.60m - Terminated with concrete obstruction								0.50	17.86	
				0.60	17.76					
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		


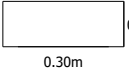


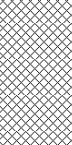

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481628.29 Northing: 356267.99 Level: 17.48mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP40</h1> Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.50	16.98			0.10	ES1	
								0.20 - 0.50	B2	
Brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Orangish brown from 0.7m bgl</i>				1.20	16.28			0.60 - 0.90	B3	
								1.00	ES4	
EOH at 1.20m - Target depth achieved								1.20	D5	
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.									3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
									Project Number <h2 style="text-align: center;">784-B026948</h2>	

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481765.24 Northing: 356312.61 Level: 18.34mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP41</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.50	17.84			0.10	ES1	
								0.20 - 0.40	B2	
Orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	17.14			0.60 - 0.90	B3	
								1.00	ES4	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481697.54 Northing: 356329.08 Level: 18.37mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP42 Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.60	17.77			0.10	ES1	
								0.20 - 0.50	B2	
Brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of quartzite. (ALLUVIUM) <i>Orangish brown from 0.8m bgl</i>				1.20	17.17			0.70	ES3	
								0.80 - 1.20	B4	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number 784-B026948		


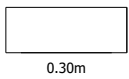
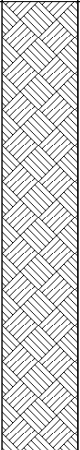
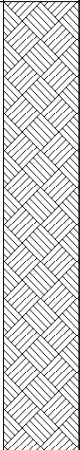
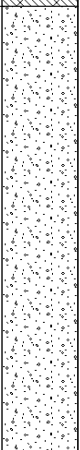
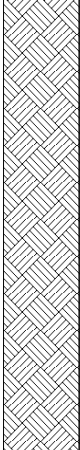
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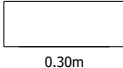


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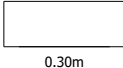




	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481916.57 Northing: 356398.85 Level: 18.85mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP43</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  0.30m Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone. Silt is fine to coarse. (TOPSOIL) TOP				0.20	18.65			0.10	D2	
								0.10	ES1	
Brown and dark brown slightly gravelly slightly silty fine to coarse SAND with low cobble content. Gravel is fine to coarse angular to sub-rounded of various lithologies. Silt is fine to coarse. Cobbles are angular to sub-angular of brick and concrete. (MADE GROUND) MGR								0.20 - 0.50	B3	
								0.60	ES4	
<i>Dark brown from 1.0m bgl</i>				1.20	17.65			0.80 - 1.20	B5	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.									3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320	
									Project Number <h2 style="text-align: center;">784-B026948</h2>	


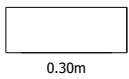
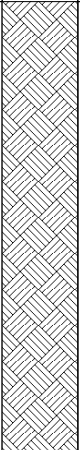
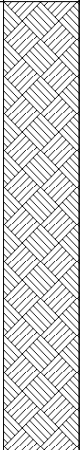
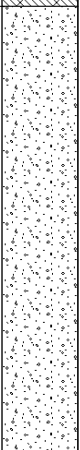
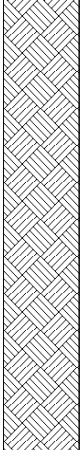
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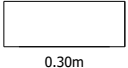



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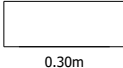




	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481869.46 Northing: 356486.74 Level: 18.55mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP44</h1> Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.60	17.95			0.10 ES1		
								0.20 - 0.60 B2		
Orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)				1.20	17.35			0.70 ES3		
								0.80 - 1.20 B4		
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 482083.90 Northing: 356577.13 Level: 18.72mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP45</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.90	17.82			0.10	ES1	
								0.20	D2	
								0.30 - 0.70	B3	
Orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								1.00	ES4	
							1.00 - 1.20	B5		
EOH at 1.20m - Target depth achieved				1.20	17.52					
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481992.56 Northing: 356611.37 Level: 17.93mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP46 Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP				0.80	17.13			0.10	ES1	
								0.20 - 0.60	B2	
Orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of quartzite. (ALLUVIUM)				1.20	16.73			0.90	ES3	
								1.00 - 1.20	B4	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number 784-B026948		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 482402.62 Northing: 356758.57 Level: 18.74mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP47</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  0.30m Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 14/04/2021 Finish Date: 14/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-angular of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.60	18.14			0.10	ES1	
Orangish brown slightly silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of quartzite. (ALLUVIUM)				1.20	17.54			0.80	ES3	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.			3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320 Project Number <h2 style="text-align: center;">784-B026948</h2>							

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 482196.32 Northing: 356915.02 Level: 18.76mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP48</h1> Sheet 1 of 1	
	Hole Information Pit Dimensions:  0.30m Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 23/04/2021 Finish Date: 23/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Dark brown slightly gravelly silty SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP				0.40	18.36			0.10 ES1	0.20 - 0.40 B2	
Orangish brown gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-angular of quartzite. (ALLUVIUM)									1.20	17.56
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		

	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481671.03 Northing: 356208.17 Level: 17.23mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid			Status <h1 style="text-align: center;">FINAL</h1>		Pit Number <h1 style="text-align: center;">TP49</h1> Sheet 1 of 1		
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 22/04/2021 Finish Date: 22/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing Depth (m) Ref Tests / Results		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.50	16.73			0.10	ES1	
								0.20 - 0.40	B2	
Brown slightly gravelly slightly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Orangish brown from 0.8m bgl</i>				1.20	16.03			0.70	ES3	
								0.80 - 1.20	B4	
EOH at 1.20m - Target depth achieved										
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number <h2 style="text-align: center;">784-B026948</h2>		

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2


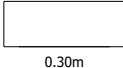


	Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England		Location Details Easting: 481904.07 Northing: 356440.64 Level: 18.48mAOD Depth: 1.20m Logger: SC Type: IP Ordnance Survey Great Britain National Grid				Status FINAL		Pit Number TP50 Sheet 1 of 1	
	Hole Information Pit Dimensions:  Orientation: ° Shoring: None Stability: Stable Plant: Hand Excavated			Groundwater Strike (m) Rose To (m) After (mins) Remarks				Scale: 1:10 Checked By: NEB Approved By: JC Start Date: 15/04/2021 Finish Date: 15/04/2021		
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. Silt is fine to coarse. (TOPSOIL) TOP				0.70	17.78			0.10 ES1		
Orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								0.80 ES3		
EOH at 1.20m - Target depth achieved				1.20	17.28					
Observations / Remarks 1. Groundwater not observed. 2. Upon completion completion exploratory hole backfilled with arisings.								3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320		
								Project Number 784-B026948		



Plate 1

TP01 - 0.00 - 3.00mbgl



Plate 2

TP01 - 0.00 - 3.00mbgl

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Plate 3 TP01 - 0.00 - 3.00mbgl



Plate 4 TP01 - 0.00 - 3.00mbgl - SPOIL

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Plate 5

TP02 - 0.00 - 2.20mbgl



Plate 6

TP02 - 0.00 - 2.20mbgl

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Plate 7

TP02 - 0.00 - 2.20mbgl - SPOIL

Plate 8

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Plate 9

TP03 - 0.00 - 1.75mbgl



Plate 10

TP03 - 0.00 - 1.75mbgl

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Plate 11

TP03 - 0.00 - 1.75mbgl - SPOIL



Plate 12

TP03 - REINSTATEMENT

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Plate 13

TP04 -0.00 - 2.50mbgl



Plate 14

TP04 -0.00 - 2.50mbgl

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Plate 15

TP04 -0.00 - 2.50mbgl - SPOIL

Plate 16

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Plate 17 TP05 - 0.00 - 2.80mbgl

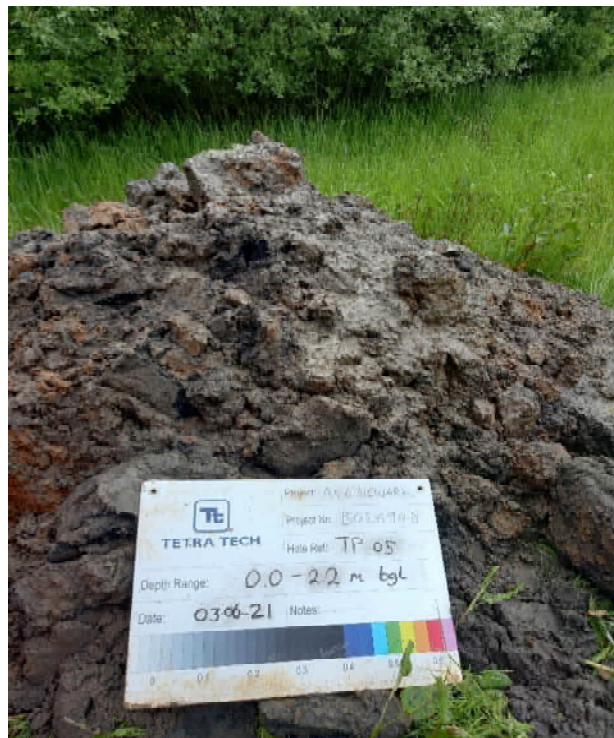


Plate 18 TP05 - 0.00 - 2.80mbgl - SPOIL

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Plate 19

TP05 - REINSTATEMENT

Plate 20

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Plate 21

TP08 - GL - 0.50m bgl



Plate 22

TP08 - GL - 0.50m bgl

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Plate 23

TP08 - GL - 0.50m bgl



Plate 24

SPOIL

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Plate 21 TP09 - 0.00 - 2.00mbgl



Plate 22 TP09 - 0.00 - 2.00mbgl

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Plate 23

TP09 - 0.00 - 2.00mbgl - SPOIL



Plate 24

TP09 - REINSTATEMENT

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Plate 25 TP10 - 0.00 - 2.70mbgl



Plate 26 TP10 -
0.00 -

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Plate 27 TP10 - 0.00 - 2.70mbgl



Plate 28 TP10- REINSTATE

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Plate 29

TP11 0.00 -2.50mbgl



Plate 30

TP11 0.00 -
2.50mbgl

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Plate 31

TP11 0.00 -2.50mbgl



Plate 32

TP11 -
REINSTATE

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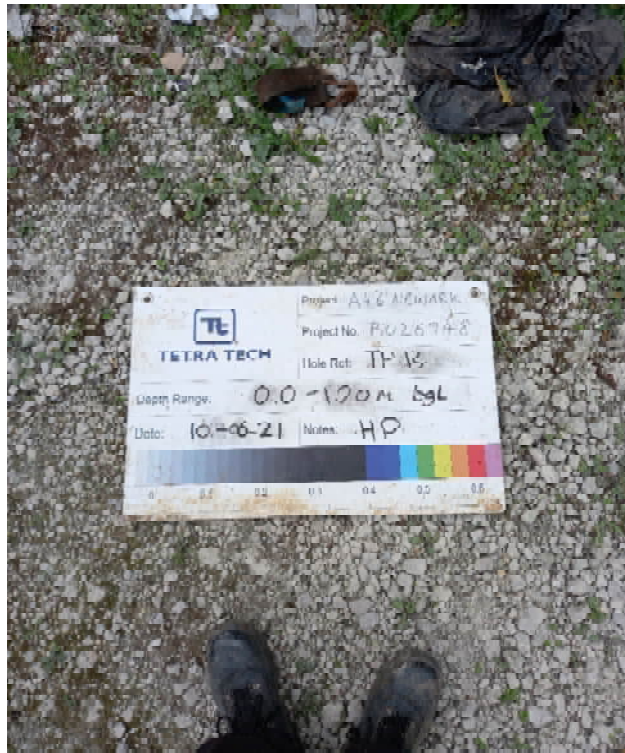


Plate 33 TP13 - 0.00 -1.20mbgl



Plate 34 TP13 -
0.00 -

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Plate 35 TP13 - 0.00 -1.20mbgl - SPOIL



Plate 36 TP13 -
0.00 -

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Plate 37

TP15 0.00 - 1.20mbgl

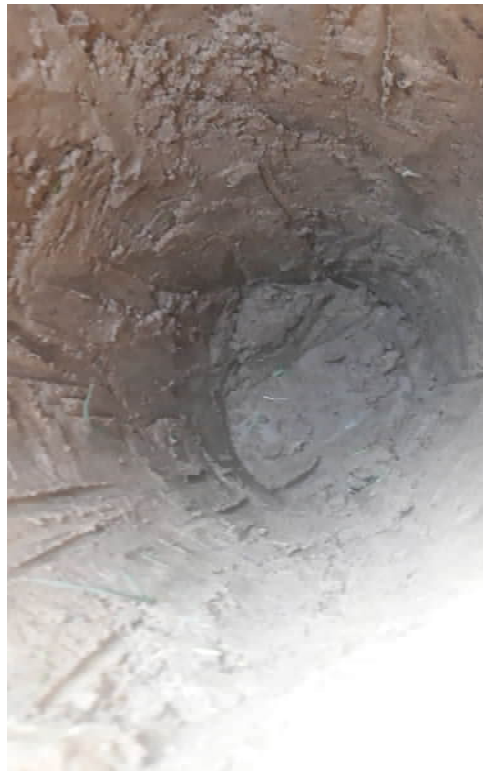


Plate 38

TP15 0.00 -
1.20mbgl

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Project :-
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Project

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Plate 39

TP15 0.00 - 1.20mbgl - SPOIL

Plate 40

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Plate 41

TP20 - 0.00 - 1.20mbgl



Plate 42

TP20 -
0.00 -

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Plate 43 TP25 - 0.00 - 1.20mbgl



Plate 44 TP25 -
0.00 -

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Plate 45

TP25 - 0.00 - 1.20mbgl - SPOIL

Plate 46

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Plate 47

TP27 - 0.00 - 3.20mbgl



Plate 48

TP27 -
0.00 -

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Plate 49

TP27 - 0.00 - 3.20mbgl

Plate 50

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Plate 51

TP30 - 0.00 - 1.20mbgl



Plate 52

TP30 -
0.00 -

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Plate 53

TP30 - 0.00 - 1.20mbgl -SPOIL

Plate 54

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Plate 55

TP31 - 0.00 - 2.00mbgl



Plate 56

TP31 -
0.00 -

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Plate 57

TP31 - 0.00 - 2.00mbgl - SPOIL

Plate 58

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Plate 59

TP32 - 0.00 - 2.70mbgl



Plate 60

TP32 -
0.00 -

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Plate 61

TP32 - 0.00 - 2.70mbgl



Plate 62

TP32 -
0.00 -

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Plate 63

TP33 - 0.00 - 1.50mbgl



Plate 64

TP33 -
0.00 -

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Plate 65

TP33 - 0.00 - 1.50mbgl

Plate 66

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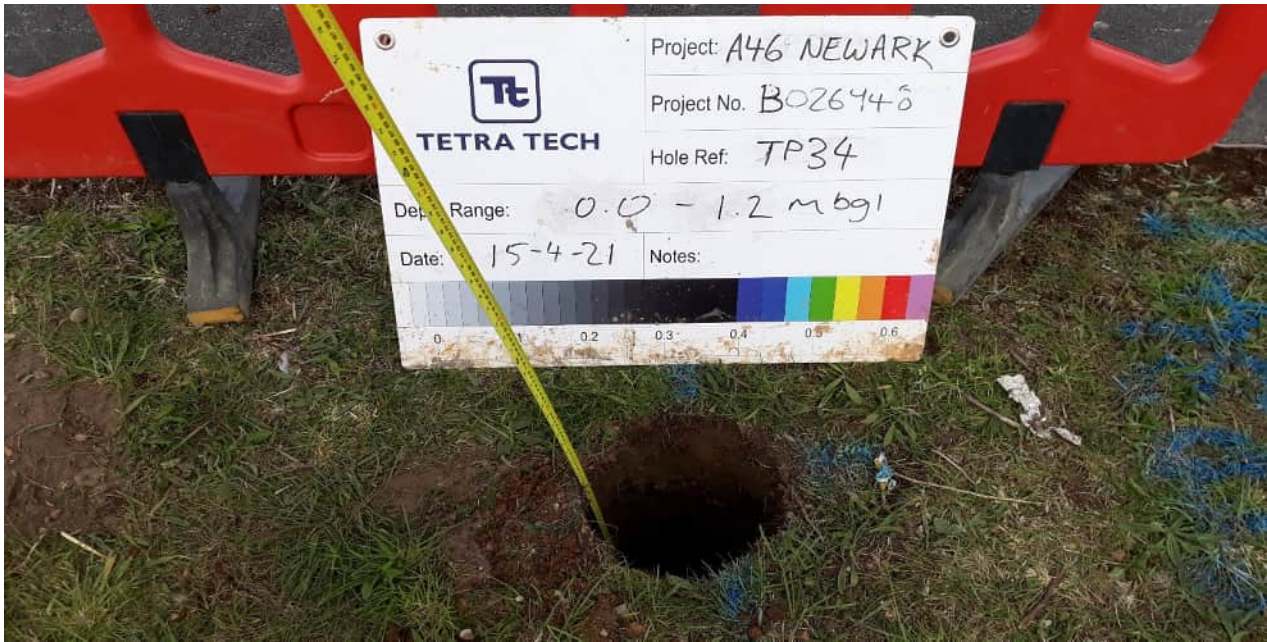


Plate 67

TP34 - 0.00 - 2.0mbgl



Plate 68

TP34 -
0.00 -

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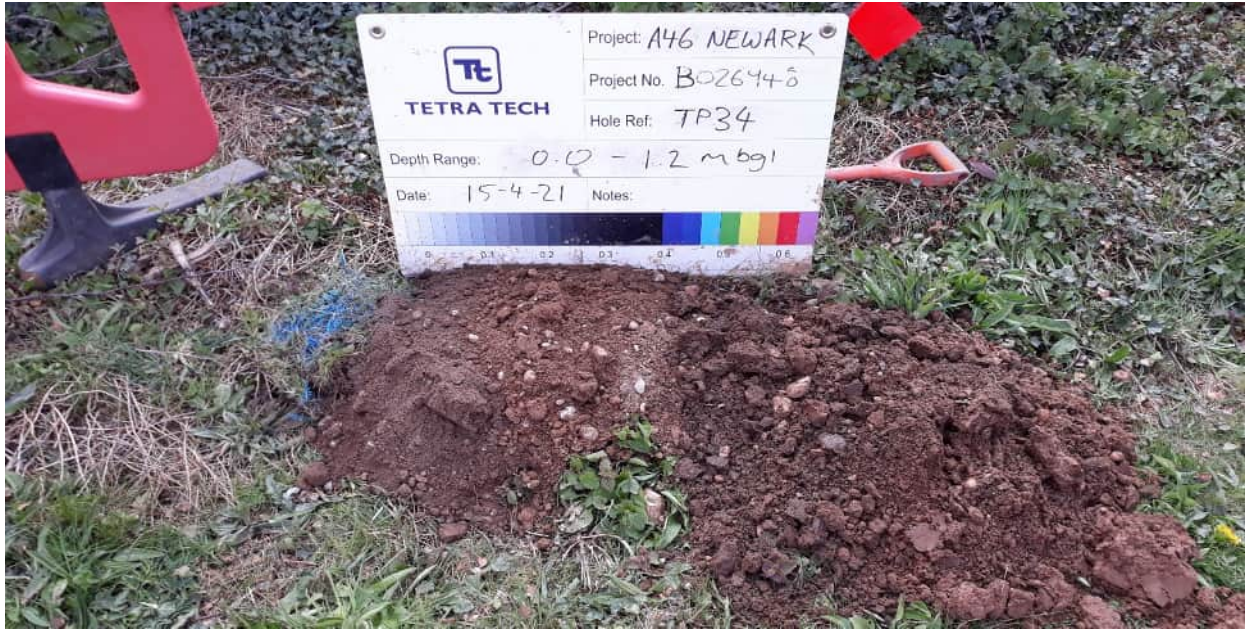


Plate 69

TP34 - 0.00 - 2.0mbgl - SPOIL

Plate 70

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Plate 71

TP35 - 0.00 - 1.20mbgl



Plate 72

TP35 -
0.00 -

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Plate 73

TP35 - 0.00 - 1.20mbgl - SPOIL

Plate 74

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Plate 75

TP36 - 0.00 - 1.20mbgl



Plate 76

TP36 -
0.00 -

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Plate 77

TP36 - 0.00 - 1.20mbgl - SPOIL

Plate 78

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Plate 79

TP37 - 0.00 - 1.20mbgl



Plate 80

TP37 -
0.00 -

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Plate 81

TP37 - 0.00 - 1.20mbgl - SPOIL

Plate 82

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Plate 83

TP38 - 0.00 - 1.20mbgl



Plate 84

TP38 -
0.00 -

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Plate 85

TP38 - 0.00 - 1.20mbgl - SPOIL

Plate 86

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Plate 87

TP39 - 0.00 - 0.60mbgl



Plate 88

TP39 -
0.00 -

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Plate 89

TP39 - 0.00 - 0.60mbgl - SPOIL

Plate 90

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Plate 91 TP40 - 0.00 - 1.20mbgl



Plate 92 TP40 -
0.00 -

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Plate 93

TP41 - 0.00 - 1.20mbgl



Plate 94

TP41 -
0.00 -

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Plate 95

TP41 - 0.00 - 1.20mbgl - SPOIL

Plate 96

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Plate 97

TP42 - 0.00 - 1.20mbgl



Plate 98

TP42 -
0.00 -

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Plate 99

TP42 - 0.00 - 1.20mbgl - SPOIL

Plate 100

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Plate 101

TP43 - 0.00 - 1.20mbgl



Plate 102

TP43 -
0.00 -

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Plate 103

TP43 - 0.00 - 1.20mbgl - SPOIL

Plate 104

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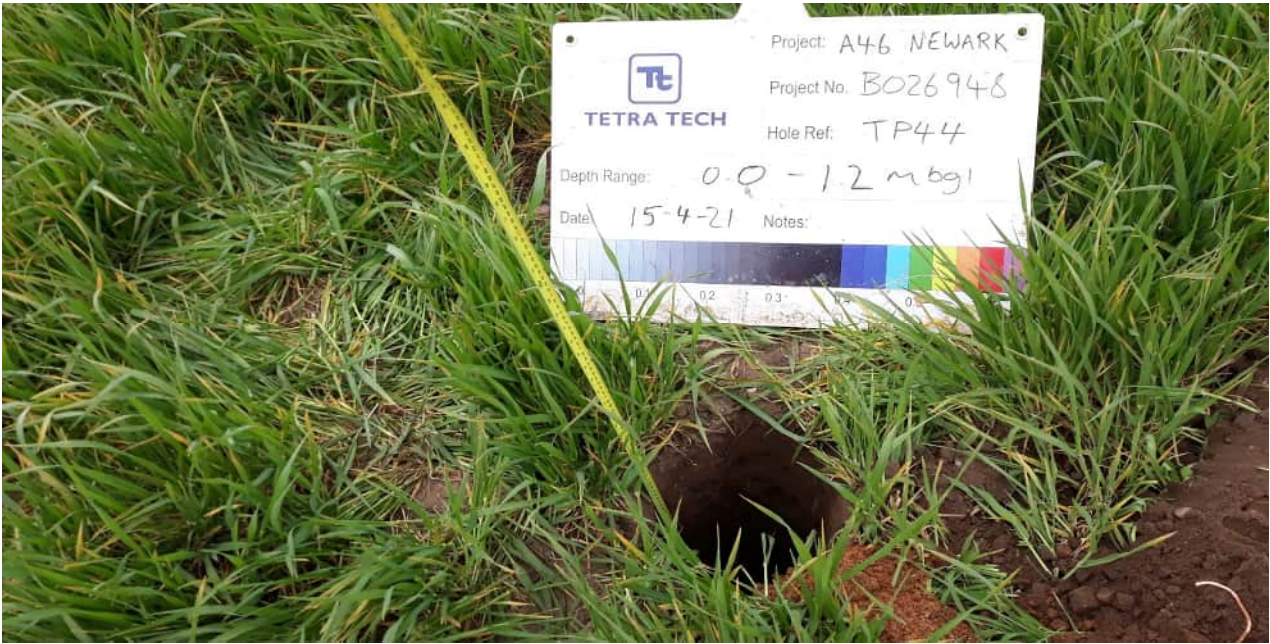


Plate 105

TP44 - 0.00 - 1.20mbgl



Plate 106

TP44 -
0.00 -

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Plate 107

TP44 - 0.00 - 1.20mbgl - SPOIL

Plate 108

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Plate 109

TP45 - 0.00 - 1.20mbgl



Plate 110

TP45 -
0.00 -

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Plate 111

TP45 - 0.00 - 1.20m bgl - SPOIL

Plate 112

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Plate 113

TP46 - 0.00 - 1.20mbgl



Plate 114

TP46 -
0.00 -

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Plate 115

TP46 - 0.00 - 1.20mbgl - SPOIL

Plate 116

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Plate 117

TP47 - 0.00 - 1.20mbgl



Plate 118

TP47 -
0.00 -

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Plate 119

TP47 - 0.00 - 1.20mbgl - SPOIL

Plate 120

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Plate 121

TP48 - 0.00 - 1.20mbgl



Plate 122

TP48 -
0.00 -

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Plate 123

TP48 - 0.00 - 1.20mbgl - SPOIL

Plate 124

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Plate 125

TP49 - 0.00 - 1.20mbgl



Plate 126

TP49 -
0.00 -

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Plate 127

TP49 - 0.00 - 1.20mbgl - SPOIL

Plate 128

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Plate 129

TP50 - 0.00 - 1.20mbgl



Plate 130

TP50 -
0.00 -

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Plate 131

TP50 - 0.00 - 1.20mbgl - SPOIL

Plate 132

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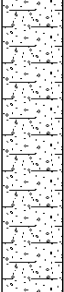

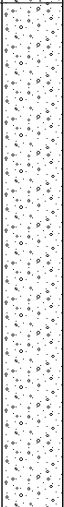












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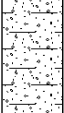

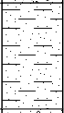

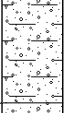
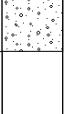
Oct-21


 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478066.09 Northing: 352929.45 Level: 10.99mAOD Depth: 5.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS04		
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50		
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B	1.20	300			1.20	-	-	0.60	20		Approved By:	JC
1.20	5.00	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B	4.00	110									Start Date:	18/04/2021
					5.00	77									Finish Date:	16/04/2021
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing				
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.50	10.49			0.10	ES1	Tests / Results		
Soft brown slightly sandy clayey SILT. Sand is fine to coarse. (ALLUVIUM)												0.20 - 0.50	B2			
Loose becoming medium dense light grey and brown slightly sandy fine and medium angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)												0.60 - 0.80	B3	SPT(C) 1.20m, N=1 (0,0/0,0,0,1)	1	
												0.90	E54			
												1.20	D5			
												1.50	E56			
EOH at 5.00m - Terminated due to refusal								3.60	7.39			1.60 - 1.90	B7	SPT(C) 2.00m, N=1 (0,0/0,0,0,1)	2	
												2.00	D8			
EOH at 5.00m - Terminated due to refusal												3.00	D9	SPT(C) 3.00m, N=15 (3,3/4,3,4,4)	3	
												4.00	D11			
EOH at 5.00m - Terminated due to refusal								5.00	5.99					SPT(C) 4.00m, N=9 (2,3/2,3,2,2)	4	
EOH at 5.00m - Terminated due to refusal														SPT(C) 5.00m, N=24 (3,4/6,6,7,5)	5	
EOH at 5.00m - Terminated due to refusal															6	
EOH at 5.00m - Terminated due to refusal															7	
EOH at 5.00m - Terminated due to refusal															8	
EOH at 5.00m - Terminated due to refusal															9	
EOH at 5.00m - Terminated due to refusal															10	
Observations / Remarks										Sampling Runs				Hammer Information		
1. Upon completion exploratory hole backfilled with bentonite.										From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
										1.20	2.00	87	90			
										2.00	3.00	87	40			
										3.00	4.00	87	60			
										4.00	5.00	77	0			
										Project Number						
										784-B026948						


 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478099.77 Northing: 353219.67 Level: 10.59mAOD Depth: 6.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS08											
Method, Plant and Crew												Diameter		Casing			Groundwater					Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	Approved By:	Start Date:	Finish Date:							
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	5.00	110	1.10	-	-	0.80	20		NEB	JC	19/04/2021	19/04/2021							
1.20	6.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B	5.00	110																			
Strata Description							Legend		Reduced Level (mAOD)		Water Level (m)		Inst / Backfill		Samples and Testing										
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP									0.50		10.09				0.10 0.20 - 0.40		ES1 B2								
Loose becoming medium dense brown and orangish brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)									2.60		7.99				0.70 0.80 - 1.20		ES3 B4		1						
Medium dense becoming dense light grey and brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)									6.00		4.59				1.20 1.50 1.60 - 1.90		D5 ES6 B7		SPT(C) 1.20m, N=2 (1,1/1,0,0,1)						
EOH at 6.00m - Terminated due to refusal									6.00		4.59				2.00 2.10 - 2.50		D8 B9		2						
															3.00 3.30 - 3.60		D11 B12		3						
															4.00		D13		4						
															4.90 5.00 - 5.45		D14 U7615		5						
															5.50 - 5.90 5.50 - 5.90		B13 B16		6						
															6.00		D17		6						
																			7						
																			8						
																			9						
																			10						
Observations / Remarks												Sampling Runs					Hammer Information								
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 5.00m bgl.												From (m)		To (m)		Diam (mm)		Recovery %		Remarks		Serial No.		Energy Ratio %	
												1.20 2.00		2.00 3.00		87 87		100 100							
												3.00 4.00		4.00 5.00		87 87		60 50							
												4.00 5.45		5.00 6.00		87 77		50 100							
												Project Number					784-B026948								










Project: A46 Newark - Northern Bypass						Location Details						Status		Borehole Number					
 Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Easting: 478137.46		Northing: 353363.66				FINAL		WS10					
						Level: 10.74mAOD		Depth: 3.00m		Logger: SC						Type: WS			
								Inclination: 90°				Sheet 1 of 1							
Method, Plant and Crew					Diameter		Casing			Groundwater									
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Scale:	1:50			
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	3.00	110	1.10	-	-	0.60	20		Checked By:	NEB			
1.20	3.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	3.00	110									Approved By:	JC			
																Start Date:	18/04/2021		
																Finish Date:	18/04/2021		
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing							
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP Loose becoming medium dense brown slightly gravelly slightly clayey SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>No clay from 1.3m bgl</i>								0.40	10.34			0.10 - 1.00	ES1						
												0.20 - 0.40	B2						
EOH at 3.00m - Terminated with borehole collapsed								3.00	7.74			0.50	ES3						
												0.60 - 1.00	B4						
												1.20	D5						SPT(C) 1.20m, N=6 (1,2/1,2,1,2)
												1.50	ES6						
								3.00	7.74			1.60 - 1.90	B7						
												2.00	D8					SPT(C) 2.00m, N=19 (4,5/4,4,6,5)	
								3.00	7.74			2.00 - 3.00	B9						
												3.00	D10						SPT(C) 3.00m, N=29 (3,3/6,7,8,8)
																1			
																2			
																3			
																4			
																5			
																6			
																7			
																8			
																9			
																10			
Observations / Remarks												Sampling Runs			Hammer Information				
1. Upon completion exploratory hole backfilled with bentonite.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %	
												Project Number		784-B026948					





 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478206.40 Northing: 353536.02 Level: 10.16mAOD Depth: 3.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS13			
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB	
0.00	1.20	Dynamic Windowless Sampling	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	1.20 3.00	300 110	3.00	110	1.20	-	-	0.90	20		Approved By:	JC	
<p>Start Date: 21/04/2021 Finish Date: 21/04/2021</p>																	
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing					
Dark brown slightly gravelly slightly clayey slightly silty fine to coarse SAND. Silt is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP Soft brown slightly gravelly silty clayey SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Slightly clayey from 1.2m bgl</i> <i>No clay from 1.5m bgl</i> <i>Sand blowing up casing from 2.0m to 1.6m bgl</i> <i>Grey to dark grey and slight organic odour between 1.8m and 2.0m bgl</i> <i>Sampler jammed in casing between 2.0m and 3.0m bgl. Borehole terminated</i>								0.30	9.86			0.10	D2	SPT(C) 1.20m, N=8 (2,2/2,2,2,2) SPT(C) 2.00m, N=4 (2,1/1,1,1,1)			
								0.10	ES1	0.40 - 0.80		B3					
0.90	ES4	1.20	D5														
1.40 - 1.80	B6	1.40 - 1.80	B6														
1.80	ES7	2.00	D8														
2.00	B9	2.00 - 3.00	B9														
3.00	7.16																
EOH at 3.00m - Terminated with borehole collapsed																	
Observations / Remarks 1. Upon completion exploratory hole backfilled with bentonite.												Sampling Runs From (m) To (m) Diam (mm) Recovery % Remarks 1.20 2.00 87 90			Hammer Information Serial No. Energy Ratio %		
												Project Number 784-B026948					




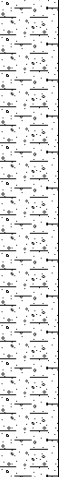
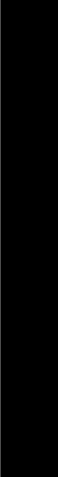
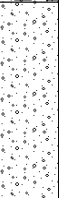





 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478291.30 Northing: 353674.56 Level: 10.78mAOD Depth: 3.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS15			
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB	
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	3.00	110	1.30	-	-	0.80	20		Approved By:	JC	
1.20	3.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	3.00	110									Start Date:	21/04/2021	
															Finish Date:	21/04/2021	
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing					
Dark brown slightly gravelly slightly clayey fine to coarse angular to sub-rounded of sandstone and flint. (TOPSOIL) TOP								0.20	10.58			0.10 0.20 0.30 - 0.50	ES1 D2 B3				
Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								1.20	9.58			0.60 0.70 - 1.20	ES4 B5			1	
Soft brown mottled with light brown slightly sandy CLAY. Sand is fine to coarse. (ALLUVIUM)								1.90	8.88			1.20 1.50 1.50 - 1.90	D6 ES7 B8	SPT(C) 1.20m, N=3 (2,2/2,1,0,0)			
Loose grey slightly clayey sandy fine and medium sub-angular to sub-rounded of quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)								2.60	8.18			2.00 2.10 - 2.50	D9 B10	SPT(C) 2.00m, N=2 (2,2/0,0,0,2)		2	
<i>Dark grey from 2.5m bgl</i> Grey and light brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)								3.00	7.78			2.60	D11				
EOH at 3.00m - Terminated with refusal												3.00	D12	SPT(C) 3.00m, 50 (4,7/50 for 295mm)		3	
																4	
																5	
																6	
																7	
																8	
																9	
																10	
Observations / Remarks											Sampling Runs			Hammer Information			
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 3.00m bgl.											From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
											1.20	2.00	87	100			
											2.00	3.00	87	90			
											Project Number		784-B026948				


 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478374.82 Northing: 353806.56 Level: 10.52mAOD Depth: 4.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS17									
Method, Plant and Crew												Diameter		Casing			Groundwater					Scale: 1:50	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	Approved By:	Start Date:	Finish Date:					
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	3.00	110	1.80	-	-	1.30	20		NEB	JC	21/04/2021	21/04/2021					
1.20	4.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	3.00 4.00	110 97																	
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing											
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of quartzite. (TOPSOIL) TOP Brown mottled with orangish brown very clayey fine to coarse SAND. (ALLUVIUM)								0.20	10.32			0.10	ES1	SPT(C) 2.00m, N=36 (3,5/7,9,10,10) SPT(C) 3.00m, N=16 (7,7/4,4,4,4)									
Soft brown and dark brown very gravelly sandy CLAY. Sand is fine to coarse. (ALLUVIUM)								0.80	9.72			0.20	D2										
Dense grey slightly gravelly slightly clayey fine and medium SAND. Gravel is fine and medium angular to sub-rounded. (ALLUVIUM)								1.90	8.62			0.30 - 0.50	B3										
Medium dense yellowish brown and brown slightly sandy fine to coarse angular to sub-rounded of quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) <i>Borehole collapsed from 3.0m to 4.0m bgl. Borehole terminated</i>								2.60	7.92			0.60	ES4										
EOH at 4.00m - Terminated with borehole collapsed								4.00	6.52			0.80 - 1.20	B5										
													1.20		U								
													1.20 - 1.65		U766								
													1.80		ES7								
													2.00		D8								
													2.40		D9								
													2.60 - 3.00		B10								
													3.00 - 4.00	B11									
Observations / Remarks												Sampling Runs				Hammer Information							
1. Upon completion exploratory hole backfilled with bentonite.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %					
												1.65	2.00	87	100								
												2.00	3.00	87	60								
												Project Number 784-B026948											



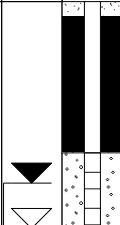
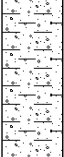
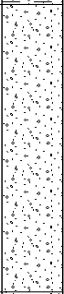
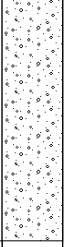
 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478751.03 Northing: 354270.85 Level: 10.19mAOD Depth: 4.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS23			
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB	
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	0.00	0	1.30	-	-	1.10	20		Approved By:	JC	
1.20	4.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	3.00 4.00	110 77									Start Date:	27/04/2021	
															Finish Date:	27/04/2021	
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing					
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP Soft brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. (ALLUVIUM) <i>Dark grey from 2.0m bgl</i>								0.30	9.89			0.10	D2	SPT(C) 1.20m, N=8 (2,2/2,2,2,2)	1		
												0.10	ES1				
Medium dense grey slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) <i>Borehole collapsed back to 3.0m bgl</i> <i>Yellowish brown from 2.8m bgl</i>								2.70	7.49			0.30 - 0.80	B3	SPT(C) 3.00m, N=16 (4,4/4,4,4,4)	3		
												0.90	ES4				
EOH at 4.00m - Terminated with borehole collapsed								4.00	6.19			1.20	D5	SPT(C) 4.00m, N=15 (2,2/4,4,4,3)	4		
												1.50	ES6				
												1.60 - 1.90	B7		5		
												2.00 - 2.45	U768				
												2.70 - 3.00	B9		6		
												3.50 - 4.00	B10				
															7		
															8		
															9		
															10		
Observations / Remarks											Sampling Runs			Hammer Information			
1. Upon completion exploratory hole backfilled with bentonite.											From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
											1.20	2.00	87	100			
											2.45	3.00	87	100			
	3.00	4.00	77	60													
							Project Number			784-B026948							









 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 478855.74 Northing: 354368.03 Level: 10.22mAOD Depth: 4.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS25		
												Sheet 1 of 1				
Method, Plant and Crew					Diameter		Casing		Groundwater					Scale: 1:50		
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	4.00	110	1.40	-	-	1.20	20		Approved By:	JC
1.20	4.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	4.00	110									Start Date:	27/04/2021
												Finish Date:		27/04/2021		
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing				
												Depth (m)	Ref	Tests / Results		
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP Soft orangish brown sandy CLAY. Sand is fine to coarse. (ALLUVIUM)								0.25	9.98			0.10 0.20 0.30 - 0.50	ES1 D2 B3			
Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								2.00	8.22			0.60 0.80 - 1.20	ES4 B5			
Light brown sandy slightly clayey fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) <i>No clay from 3.1m bgl</i> <i>Borehole collapsed back to 3.5m bgl</i>								2.80	7.42			1.20 1.20 - 1.65 1.65 - 2.00	D6 U767 B8			
EOH at 4.00m - Terminated with borehole collapsed								4.00	6.22			2.00 - 2.80 3.00 - 4.00	B9 B10			
														1		
														2		
														3		
														4		
														5		
														6		
														7		
														8		
														9		
														10		
Observations / Remarks										Sampling Runs			Hammer Information			
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 3.50m bgl.										From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
										1.65	2.00	87	100			
										2.00	3.00	87	75			
										3.00	4.00	87	65			
													Project Number			
													784-B026948			



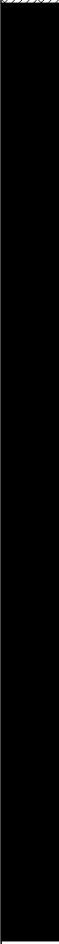











 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 479103.27 Northing: 354488.64 Level: 10.15mAOD Depth: 4.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS26						
												Sheet 1 of 1								
Method, Plant and Crew					Diameter		Casing		Groundwater					Scale: 1:50						
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB				
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B	1.20	300	3.00	110	1.20	-	-	1.10	20		Approved By:	JC				
1.20	4.00	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B	3.00	110									Start Date:	29/04/2021				
					4.00	77									Finish Date:	29/04/2021				
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing								
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) TOP Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine and medium sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) Firm orangish brown and brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) <i>No clay from 1.2m bgl</i> <i>Borehole collapsed back to 3.5m bgl</i>								0.30	9.85			0.10	D2							
												0.10	ES1							
													0.30 - 0.70	B3						
													0.80	ES4						
								1.00	9.15				1.20	D5	SPT(C) 1.20m, N=16 (4,4/4,4,4,4)		1			
												1.20 - 1.70	B6							
													1.80	ES7						
													2.00	D8	SPT(C) 2.00m, N=12 (2,3/3,3,3,3)		2			
												2.20 - 2.60	B9							
													3.00	D10	SPT(C) 3.00m, N=17 (4,4/4,4,4,5)		3			
								4.00	6.15									4		
																		5		
																		6		
																		7		
																		8		
																		9		
																		10		
Observations / Remarks												Sampling Runs			Hammer Information					
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 3.50m bgl.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %		
												1.20	2.00	87	100					
												2.00	3.00	87	65					
	3.00	4.00	77	0																
												Project Number								
												784-B026948								


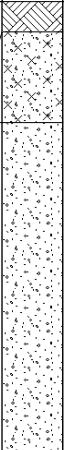
 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 479072.55 Northing: 354538.91 Level: 9.97mAOD Depth: 5.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS28								
Method, Plant and Crew						Diameter		Casing		Groundwater												
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Scale:	1:50						
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B	1.20	300	4.00	110							Checked By:	NEB						
1.20	5.00	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B	5.00	110								Approved By:	JC							
																Start Date:	23/04/2021					
																Finish Date:	23/04/2021					
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing										
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of quartzite. (TOPSOIL) TOP								0.50	9.47			0.10	ES1									
												0.20 - 0.40	B2									
Soft brown and orangish brown slightly gravelly sandy CLAY. Gravel is fine and medium angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. (ALLUVIUM) <i>Slightly sandy from 1.8m bgl</i> <i>Grey from 2.2m bgl</i> <i>Dark grey and slight organic odour from 2.8m bgl</i>								3.70	6.27			0.70	ES3									
												0.80 - 1.20	B4									
												1.20 - 1.65	U765									
												1.80	ES6									
												2.00	D7							SPT(C) 2.00m, N=4 (2,2/1,1,1,1)		
Loose dark grey slightly gravelly fine to coarse SAND. GRAVEL fine and medium angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Borehole collapsed back to 4.0m bgl. Unable to advance passed 5.0m bgl</i>								5.00	4.97			2.20 - 2.70	B8									
												2.80	ES9									
												3.00	D10						SPT(C) 3.00m, N=14 (2,2/2,2,5,5)			
EOH at 5.00m - Terminated with refusal								5.00	4.97			3.20 - 3.60	B11									
												3.80	D12					SPT(C) 4.00m, N=4 (2,1/1,1,1,1)				
								5.00	4.97			4.20 - 4.80	B13									
												5.00	D14					SPT(C) 5.00m, N=8 (3,3/2,2,2,2)				
Observations / Remarks 1. Groundwater not observed. 2. Upon completion exploratory hole backfilled with bentonite.																Sampling Runs					Hammer Information	
																From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
																Project Number 784-B026948						


 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 479225.14 Northing: 354557.79 Level: 10.08m AOD Depth: 3.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS29		
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50		
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	3.00	110	1.30	-	-	0.90	20		Approved By:	JC
1.20	3.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B R.L/A.B	3.00	110									Start Date:	26/04/2021
															Finish Date:	26/04/2021
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing				
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP Soft brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone. Sand is fine to coarse. (ALLUVIUM)								0.30	9.78			0.10	ES1	SPT(C) 1.20m, N=4 (1,0/1,1,1,1)	1	
												0.20	D2			
Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) No clay from 2.0m bgl Sand blowing up casing from 3.0m to 2.0m bgl. Sampler jammed in casing at 3.0m bgl.								1.80	8.28			0.40 - 0.80	B3	SPT(C) 2.00m, N=10 (3,2/3,2,2,3)	2	
												0.90	ES4			
EOH at 3.00m - Terminated with borehole collapsed								3.00	7.08			1.20	D5	SPT(C) 3.00m, N=37 (5,6/6,10,10,11)	3	
												1.40 - 1.80	B6			
												2.00	D7		4	
												2.00 - 3.00	B9			
												2.10	ES8		5	
																6
																7
																8
																9
																10
Observations / Remarks										Sampling Runs				Hammer Information		
1. Upon completion exploratory hole backfilled with bentonite.										From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
										1.20	2.00	87	100			
										Project Number						
										784-B026948						





 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England					Location Details Easting: 479179.40 Northing: 354594.72 Level: 9.91mAOD Depth: 5.00m Logger: Type: WS Inclination: °					Status FINAL		Borehole Number WS31						
										Sheet 1 of 1								
Method, Plant and Crew					Diameter		Casing		Groundwater									
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Scale:	1:50		
					1.20 4.00 5.00	300 110 77	4.00	110	1.50	-	-	1.20	20		Checked By:	NEB		
															Approved By:	JC		
															Start Date:	26/04/2021		
															Finish Date:	26/04/2021		
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing						
												Depth (m)	Ref	Tests / Results				
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.40	9.51			0.10 0.20 - 0.30 0.40 - 0.80	ES1 B2 B3					
Soft brown slightly gravelly sandy CLAY. Gravel is fine and medium angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. (ALLUVIUM)												0.90	ES4					
<i>Grey from 1.3m bgl</i>												1.20	D5	SPT(C) 1.20m, N=4 (0,1/1,1,1,1)				
Loose becoming medium dense orangish brown gravelly fine to coarse SAND. Gravel is fine and medium angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)								1.50	8.41			1.50 - 1.80	B6					
<i>Gravel is fine to coarse from 2.8m bgl</i>												1.90 2.00	ES7 D8	SPT(C) 2.00m, N=5 (1,1/1,2,1,1)				
Light brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)								3.40	6.51			2.20 - 2.60	B9					
<i>Borehole collapsed back to 4.0m bgl</i>												3.00	D10	SPT(C) 3.00m, N=22 (3,3/4,6,6,6)				
EOH at 5.00m - Terminated with borehole collapsed								5.00	4.91			3.40 - 3.80	B11					
												4.00	D12	SPT(C) 4.00m, N=20 (6,6/6,6,4,4)				
												4.20 - 4.80	B13					
												5.00	D14	SPT(C) 5.00m, N=5 (3,2/2,1,1,1)				
																6		
																7		
																8		
																9		
																10		
Observations / Remarks												Sampling Runs			Hammer Information			
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 4.00m bgl.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
												1.20	2.00	87	100			
												2.00	3.00	87	80			
												3.00	4.00	87	100			
												4.00	5.00	77	60			
												Project Number		784-B026948				




 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 480219.07 Northing: 355615.05 Level: 10.16mAOD Depth: 6.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS46					
Method, Plant and Crew						Diameter		Casing			Groundwater				Scale: 1:50				
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB			
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B	1.20	300	4.00	110	3.50	-	-	0.00	0		Approved By:	JC			
1.20	6.00	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B R.L./A.B	4.00 5.00 6.00	110 67 57									Start Date:	13/04/2021			
															Finish Date:	13/04/2021			
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing							
Dark brown gravelly slightly silty SAND. Occasional coal and clinker. Silt is fine to coarse. Gravel is fine to coarse angular to sub-rounded of clinker and various lithologies. (MADE GROUND) MGR <i>Dark grey to black from 0.2m bgl</i>								1.80	8.36			0.10	D2						
												0.10	ES1						0.20 - 0.50
Orangish brown mottled with black slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of various lithologies. (MADE GROUND) MGR								2.20	7.96			1.00	D5						
												1.00	ES4						1.00 - 1.20
Cream slightly sandy clayey fine and medium sub-angular of sandstone GRAVEL. Sand is fine to coarse. (MADE GROUND) MGR <i>Very strong chemical odour between 2.2 and 2.5m bgl</i>								2.50	7.66			2.30	D11						
												2.30	ES10						2.60
Medium dense becoming dense orangish brown sandy fine to coarse sub-angular to sub-rounded sandstone and flint GRAVEL. Sand is fine to coarse. (ALLUVIUM) MGR <i>Slight chemical odour from 2.5mbgl</i> <i>No chemical odour from 3.5m bgl</i> <i>Very gravelly from 4.0m bgl</i>								3.00	7.66			3.00	ES13						
												3.20 - 3.60	B14						
Weak grey MUDSTONE from 5.8m bgl								6.00	4.16			4.00	D15						
												4.00	ES16						4.20 - 4.50
EOH at 6.00m - Terminated with borehole collapsed								6.00	4.16			5.00	D18						
												5.20 - 5.60	B19						
								6.00	4.16			5.90	D20						
												5.90	D20						SPT(C) 6.00m, N=45 (5,7/9,11,13,12)
EOH at 6.00m - Terminated with borehole collapsed																			
Observations / Remarks							Sampling Runs						Hammer Information						
1. Upon completion exploratory hole backfilled with bentonite.							From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %						
							1.20	2.00	87	90									
							2.00	3.00	87	70									
							3.00	4.00	87	95									
							4.00	5.00	67	60									
							5.00	6.00	57	80									
							Project Number												
							784-B026948												



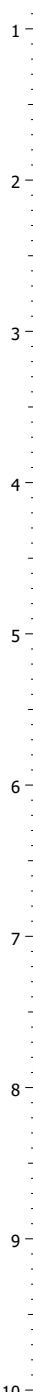
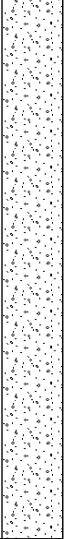
Project: A46 Newark - Northern Bypass						Location Details						Status		Borehole Number				
 Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Easting: 481082.33 Northing: 356046.10 Level: 10.59mAOD Depth: 6.70m Logger: SC Type: WS Inclination: 90°						FINAL		WS57				
						Sheet 1 of 1												
Method, Plant and Crew					Diameter		Casing			Groundwater					Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB		
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B	1.20	300	3.00	110	1.70	-	-	0.00	0		Approved By:	JC		
1.20	6.70	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B	3.00	110									Start Date:	13/04/2021		
					5.00	67									Finish Date:	13/04/2021		
					6.70	57												
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing						
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.80	9.79			0.10	D2					
												0.10	ES1					
Medium dense to loose orangish brown slightly silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. (ALLUVIUM) <i>Slightly gravelly from 1.0m bgl</i> <i>Yellowish brown from 1.1m bgl</i> <i>Sand is medium to coarse from 1.6m bgl</i> <i>Slightly clayey from 2.3m bgl</i> <i>Gravelly from 4.2m bgl</i>								6.70	3.89			0.20 - 0.60	B3		1.00	D5	SPT(C) 1.20m, N=20 (3,6/4,5,6,5)	1
												1.00	ES4					
													1.00 - 1.20	B6	SPT(C) 2.00m, N=5 (1,1/2,1,1,1)	2		
													1.50	ES7				
													2.00	D8	SPT(C) 3.00m, N=41 (5,6/7,11,11,12)	3		
													2.00 - 2.50	B9				
													2.60 - 3.00	B10	SPT(C) 4.00m, N=6 (1,2/1,2,2)	4		
													3.50	D11				
													3.50 - 4.00	B12	SPT(C) 5.00m, N=7 (1,1/2,1,2,2)	5		
													4.50	D13				
													5.50 - 6.00	B14	SPT(C) 6.00m, N=21 (1,1/9,6,3,3)	6		
													6.00 - 6.50	B15				
EOH at 6.70m - Terminated with refusal													6.70	D16	SPT(C) 6.70m, 50 (12,13/50 for 235mm)	7		
																8		
																9		
																10		
Observations / Remarks												Sampling Runs			Hammer Information			
1. Upon completion exploratory hole backfilled with bentonite.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
												1.20	2.00	87	80			
												2.00	3.00	87	100			
												3.00	4.00	77	80			
												4.00	5.00	67	35			
												5.00	6.00	57	70			
6.00	6.70	57	90															
							Project Number											
							784-B026948											

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 481989.13 Northing: 356475.13 Level: 18.55mAOD Depth: 3.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS65									
Method, Plant and Crew												Diameter		Casing			Groundwater					Scale: 1:50	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	Approved By:	Start Date:	Finish Date:					
0.00	1.20	Dynamic Windowless Sampling	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	0.00 1.20 3.00	100 300 87	2.00	110	2.60	-	-	0.00	0		NEB	JC	09/04/2021	09/04/2021					
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing											
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.20	18.35			0.10 0.10 0.20 - 0.50	D2 ES1 B3										
Dark brown slightly gravelly slightly silty SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and brick. (ALLUVIUM)								0.80	17.75			0.60 0.80 - 1.00	ES4 B5										
Loose becoming dense orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)												1.20 1.50 - 2.00	D6 B7	SPT(C) 1.20m, N=7 (1,1/1,2,2,2)									
<i>Gravel is fine to medium from 1.4m bgl</i>												2.00 2.00	D9 ES8	SPT(C) 2.00m, N=23 (3,5/6,5,6,6)									
<i>Unable to advance casing passed 2.0m bgl</i>												2.50 - 3.00	B10										
<i>Gravelly from 2.6m bgl</i>																							
<i>Borehole collapsed back to 2.6m bgl</i>																							
EOH at 3.00m - Terminated with borehole collapsed									3.00	15.55				SPT(C) 3.00m, N=32 (2,4/6,7,10,9)									
Observations / Remarks												Sampling Runs				Hammer Information							
1. Upon completion exploratory hole backfilled with bentonite.												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %					
												1.20	2.00	87	100								
												2.00	3.00	87	100								
												Project Number											
												784-B026948											

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 481947.09 Northing: 356567.58 Level: 18.23mAOD Depth: 3.90m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS66									
Method, Plant and Crew												Diameter		Casing			Groundwater					Scale: 1:50	
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	Approved By:	Start Date:	Finish Date:					
0.00	1.20	Dynamic Windowless Sampling	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	1.20 3.00 3.90	300 110 77	3.00	110	2.50	-	-	0.00	0		NEB	JC	12/04/2021	12/04/2021					
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing											
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone. Silt is fine to coarse. (TOPSOIL) TOP Medium dense becoming dense orangish brown slightly silty/clayey slightly gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Slightly gravelly from 1.8m bgl</i> <i>Very rare gravel from 2.0m bgl</i>								0.70	17.53			0.10	D2	SPT(C) 1.20m, N=13 (3,3/3,4,3,3)	1								
												0.10	ES1										
EOH at 3.90m - Terminated with refusal								3.90	14.33			0.20 - 0.50	B3	SPT(C) 2.00m, N=15 (2,3/3,3,3,6)	2								
												0.90	ES4										
								3.90	14.33			1.00	D5	SPT(C) 3.00m, N=43 (3,4/4,16,12,11)	3								
												1.30 - 1.60	B6										
								3.90	14.33			2.00	D7	SPT(C) 3.90m, 50 (10,15/50 for 227mm)	4								
												2.00	ES8										
								3.90	14.33			2.30 - 2.60	B9										
												3.00	D10										
								3.90	14.33			3.30 - 3.60	B11										
												3.30	D11										
								3.90	14.33			3.90	D12										
												3.90	D12										
Observations / Remarks 1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 3.00m bgl.												Sampling Runs				Hammer Information							
												From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %					
												1.20	2.00	87	100								
												2.00	3.00	87	100								
												3.00	3.90	77	100								
												Project Number 784-B026948											

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 482185.63 Northing: 356681.02 Level: 19.49mAOD Depth: 3.40m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS67			
											Sheet 1 of 1						
Method, Plant and Crew					Diameter		Casing		Groundwater								
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Scale:	1:50	
0.00 1.20	1.20 3.40	Inspection Pit Dynamic Windowless Sampling	Hand Excavated Archway Competitor	R.L./A.B R.L./A.B	1.20 3.00 3.40	300 110 87	3.00	110							Checked By:	NEB	
																Approved By:	JC
																Start Date:	09/04/2021
																Finish Date:	09/04/2021
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing					
												Depth (m)	Ref	Tests / Results			
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.90	18.59			0.10 0.10 0.30 - 0.60	D2 ES1 B3				
Loose to dense orangish brown gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Slightly gravelly from 1.2m bgl</i>								1.00				0.70 1.00 1.30 - 1.60 1.70	ES4 D5 B6 ES7	SPT(C) 1.20m, N=5 (1,1/1,1,1,2)			
<i>Gravelly between 2.3 and 2.4m bgl</i>								2.00				2.00	D8	SPT(C) 2.00m, N=38 (5,8/10,9,10,9)			
<i>Very rare gravel from 2.8m bgl</i>								2.30 - 2.60				2.30 - 2.60	B9				
EOH at 3.40m - Terminated with rig breakdown								3.00				3.00	D10	SPT(C) 3.00m, N=29 (4,5/6,7,8,8)			
								3.40	16.09			3.40	D11				
																4	
																5	
																6	
																7	
																8	
																9	
																10	
Observations / Remarks											Sampling Runs				Hammer Information		
1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 2.50m bgl.											From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
											1.20	2.00	87	100			
											2.00	3.00	87	80			
											3.00	3.40	87	100			
											Project Number						
											784-B026948						

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 482107.54 Northing: 356702.71 Level: 18.57mAOD Depth: 4.90m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS70		
Method, Plant and Crew						Diameter		Casing			Groundwater				Scale: 1:50	
From (m)	To (m)	Type	Plant Used	Crew		Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B		1.20	300	3.00	110	3.70	-	-	0.00	0		NEB
1.20	4.90	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B		3.00	110									JC
				R.L./A.B		4.00	77									12/04/2021
				R.L./A.B		4.90	67									12/04/2021
Strata Description								Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing			
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP Dense to medium dense orangish brown gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) <i>Slightly gravelly from 2.2m bgl</i> <i>Gravelly from 2.8m bgl</i> <i>Very gravelly between 3.3 and 3.5m bgl</i>									0.40	18.17			0.10	D2	SPT(C) 1.20m, N=37 (9,6/6,9,11,11) SPT(C) 2.00m, N=25 (4,3/3,4,7,11) SPT(C) 3.00m, N=45 (4,6/9,11,11,14) SPT(C) 4.00m, N=30 (3,4/6,4,9,11) SPT(C) 4.90m, 50 (7,14/50 for 265mm)	
													0.10	ES1		
0.50 - 0.80	B3															
0.80	ES4															
1.00	D5															
1.30 - 1.60	B6															
1.70	ES7															
2.00	D8															
2.30 - 2.90	B9															
3.00	D10															
3.30 - 3.60	B11															
4.00	D12															
4.30 - 4.60	B13															
4.90	D14															
EOH at 4.90m - Terminated with refusal									4.90	13.67						
Observations / Remarks								Sampling Runs				Hammer Information				
1. Upon completion exploratory hole backfilled with bentonite.								From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %		
								1.20	2.00	87	100					
								2.00	3.00	87	100					
								3.00	4.00	77	100					
								4.00	4.90	67	70					
								Project Number				784-B026948				

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 482374.82 Northing: 356815.62 Level: 18.83mAOD Depth: 4.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS71			
Sheet 1 of 1																	
Method, Plant and Crew					Diameter		Casing			Groundwater				Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	NEB	
0.00	1.20	Inspection Pit	Hand Excavated	R.L/A.B	1.20	300	2.00	110	3.70	-	-	0.00	0		Approved By:	JC	
1.20	4.00	Dynamic Windowless Sampling	Archway Competitor	R.L/A.B	3.00	87	4.00								Start Date:	08/04/2021	
															Finish Date:	08/04/2021	
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing					
Dark brown slightly gravelly slightly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP								0.40	18.43			0.10	ES1		0.20 - 0.40	B2	SPT(C) 1.20m, N=24 (1,3/4,6,6,8) SPT(C) 2.00m, N=40 (5,9/11,10,11,8) SPT(C) 3.00m, N=26 (3,3/5,5,7,9) SPT(C) 4.00m, 50 (8,17/50 for 260mm)
Medium dense to dense orangish brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-angular of sandstone and quartzite. (ALLUVIUM)												0.50	D3		0.70	ES4	
Gravelly from 2.8m bgl												0.80 - 1.20	B5		1.50	D6	
												2.00	ES7		2.00 - 2.30	B8	
EOH at 4.00m - Terminated with refusal												2.50	D9		3.00 - 3.30	B10	
												3.50	D11		4.00	D12	
												4.00	D12				

Observations / Remarks						Sampling Runs				Hammer Information		
1. Upon completion exploratory hole backfilled with bentonite.						From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %
						1.20	2.00	87	100			
						2.00	3.00	87	100			
	3.00	4.00	77	60								
Project Number										784-B026948		



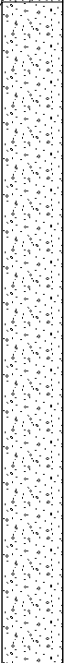

 Project: A46 Newark - Northern Bypass Location: Newark-on-Trent, Nottinghamshire Client: Highways England						Location Details Easting: 482432.95 Northing: 356940.72 Level: 19.19mAOD Depth: 5.00m Logger: SC Type: WS Inclination: 90°						Status FINAL		Borehole Number WS72			
Method, Plant and Crew						Diameter		Casing		Groundwater				Scale: 1:50			
From (m)	To (m)	Type	Plant Used	Crew		Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Strike (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)	Remarks	Checked By:	
0.00	1.20	Inspection Pit	Hand Excavated	R.L./A.B		1.20	300	5.00	110	3.10	-	-	0.00	0		NEB	
1.20	5.00	Dynamic Windowless Sampling	Archway Competitor	R.L./A.B		5.00	110									JC	
																Start Date: 08/04/2021	
																Finish Date: 08/04/2021	
Strata Description						Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing						
Dark brown slightly gravelly slightly silty fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP							0.30	18.89			0.10	ES1					
Medium dense becoming loose orangish brown gravelly fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)											0.40 - 0.70	B2					
<i>Slightly gravelly from 2.2m bgl</i>											0.80	D4					
											0.80	ES3					
											0.90 - 1.20	B5	SPT(C) 1.20m, N=12 (2,2/3,3,3,3)			1	
											1.50	D6					
											2.00	ES7					
											2.00 - 2.30	B8	SPT(C) 2.00m, N=17 (3,4/4,4,5,4)			2	
<i>Gravelly from 3.5m bgl</i>											2.50	D9					
											3.00 - 3.30	B10	SPT(C) 3.00m, N=13 (4,3/3,4,3,3)			3	
<i>Slightly gravelly from 4.1m bgl</i>											3.50	D11					
											4.00 - 4.30	B12	SPT(C) 4.00m, N=9 (1,1/1,2,3,3)			4	
Dense light grey slightly clayey fine and medium SAND. (ALLUVIUM)							4.70	14.49			4.80	D13					
<i>Borehole terminated at 5.0m bgl. Sand blown up casing to 3.2m bgl</i>																	
<i>EOH at 5.00m - Terminated with refusal</i>																	
																5	
																	6
																	7
																	8
																	9
																	10
Observations / Remarks										Sampling Runs				Hammer Information			
1. Upon completion exploratory hole backfilled with bentonite.										From (m)	To (m)	Diam (mm)	Recovery %	Remarks	Serial No.	Energy Ratio %	
										1.20	2.00	87	100				
										2.00	3.00	87	100				
										3.00	4.00	87	95				
										4.00	5.00	77	100				
										Project Number							
										784-B026948							



Plate 1 WS04 - Hand Pit GL to 1.20m bgl

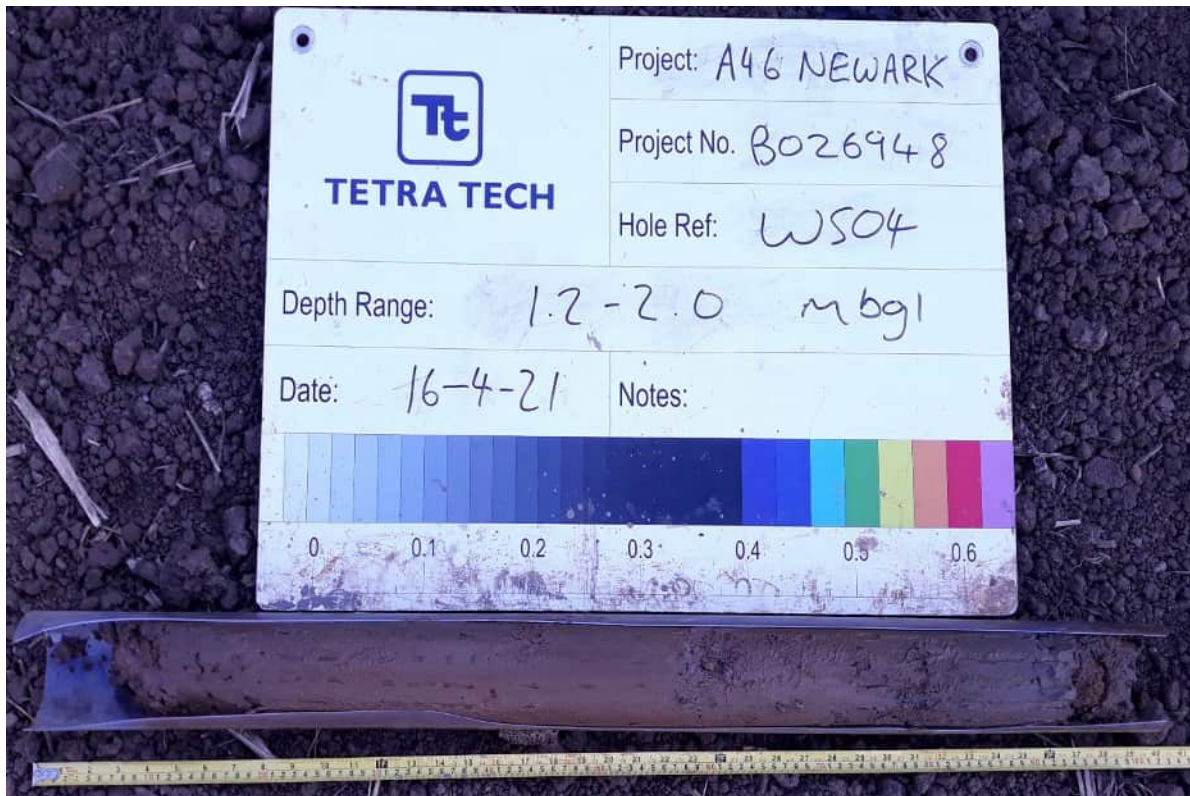


Plate 2 WS04 - 1.20 to 2.00m bgl

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Plate 3

WS04 - 2.00 to 3.00m bgl



Plate 4

WS04 - 3.00 to 4.00m bgl

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Plate 5

WS06 - Hand Pit GL to 1.20m bgl

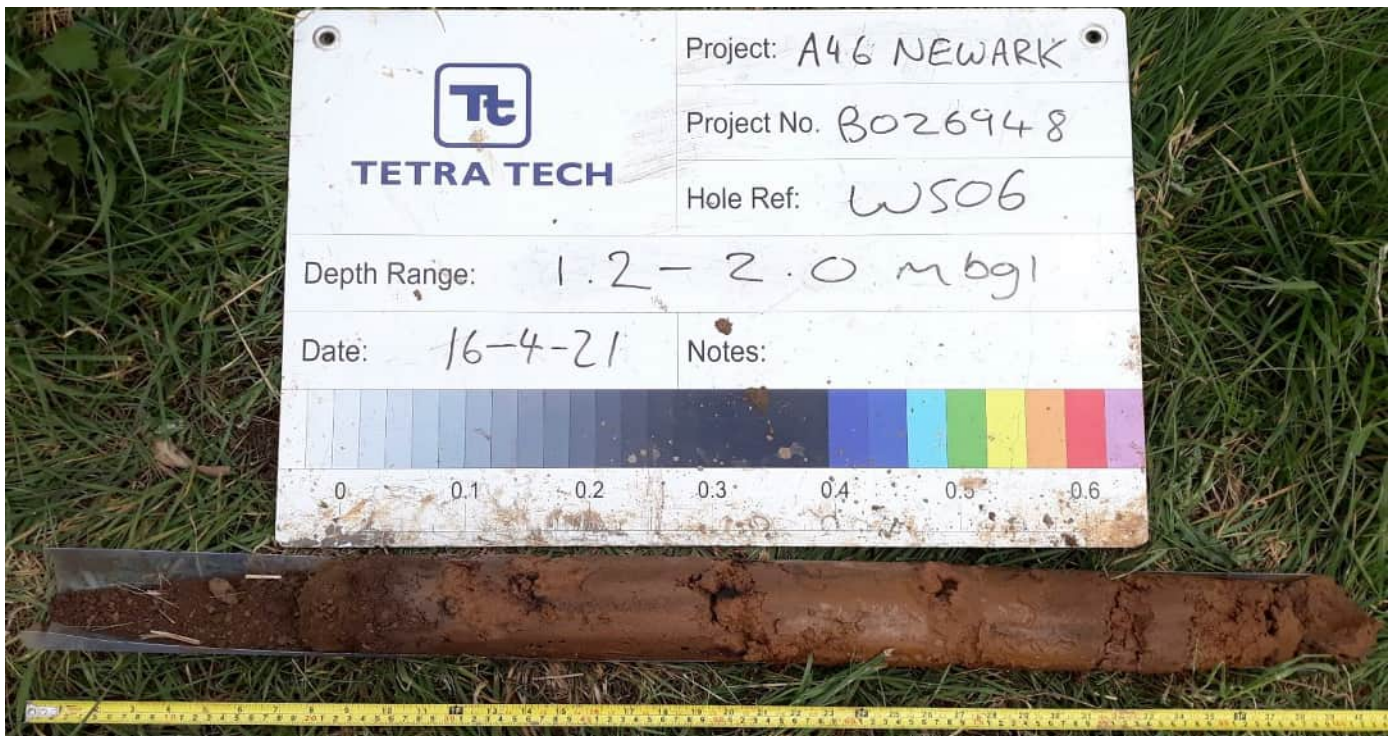


Plate 6

WS06 - 1.20 to 2.00m bgl

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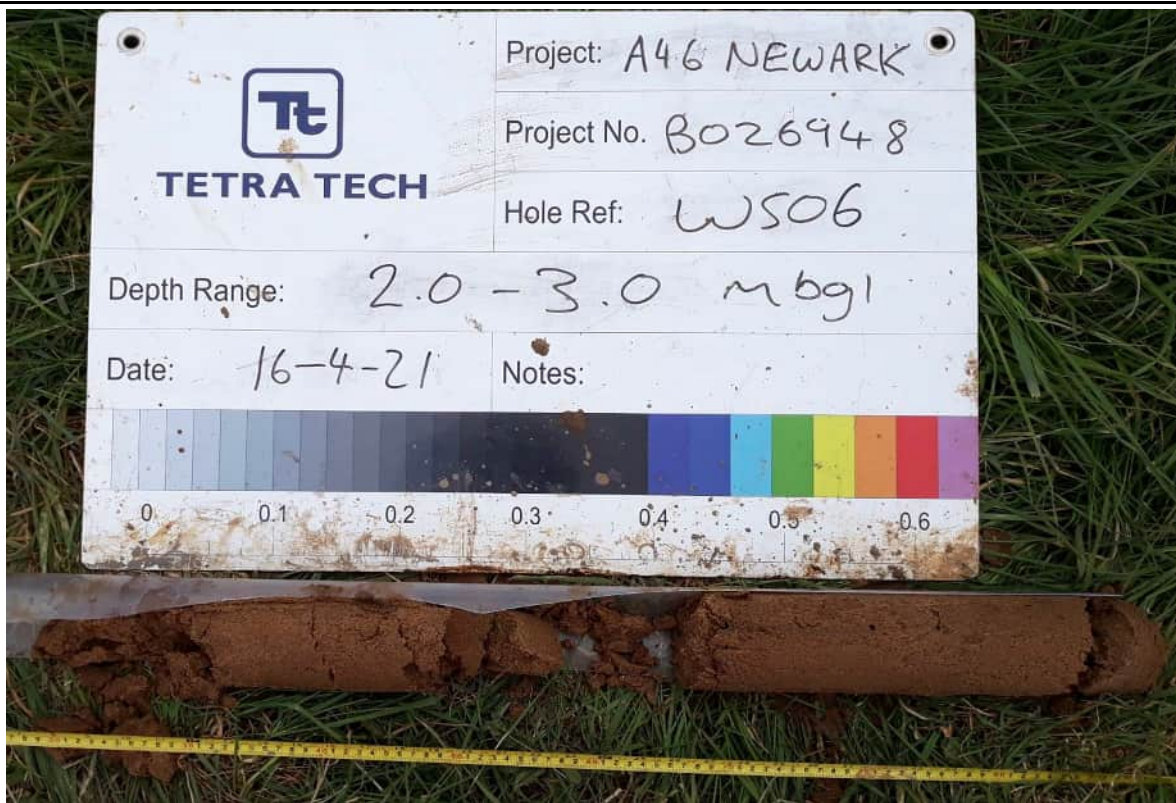


Plate 7

WS06 - 2.00 to 3.00m bgl

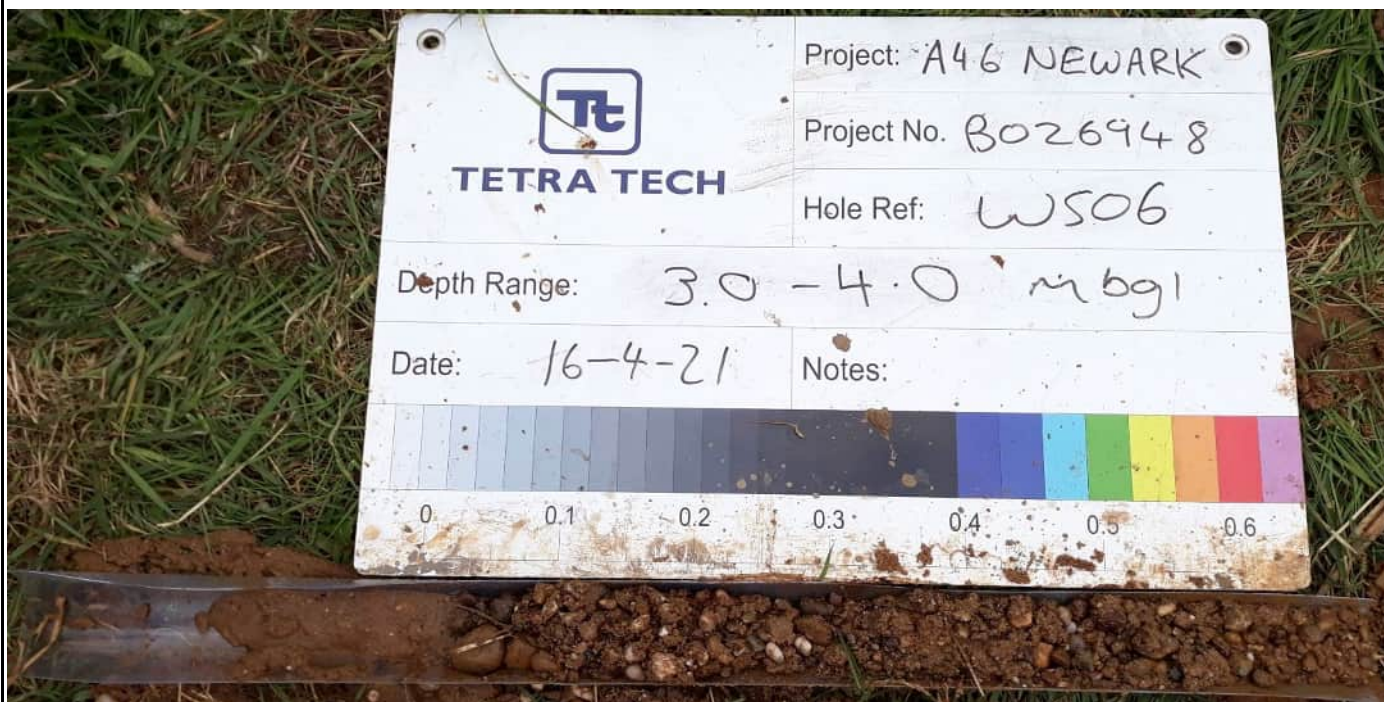


Plate 8

WS06 - 3.00 to 4.00m bgl

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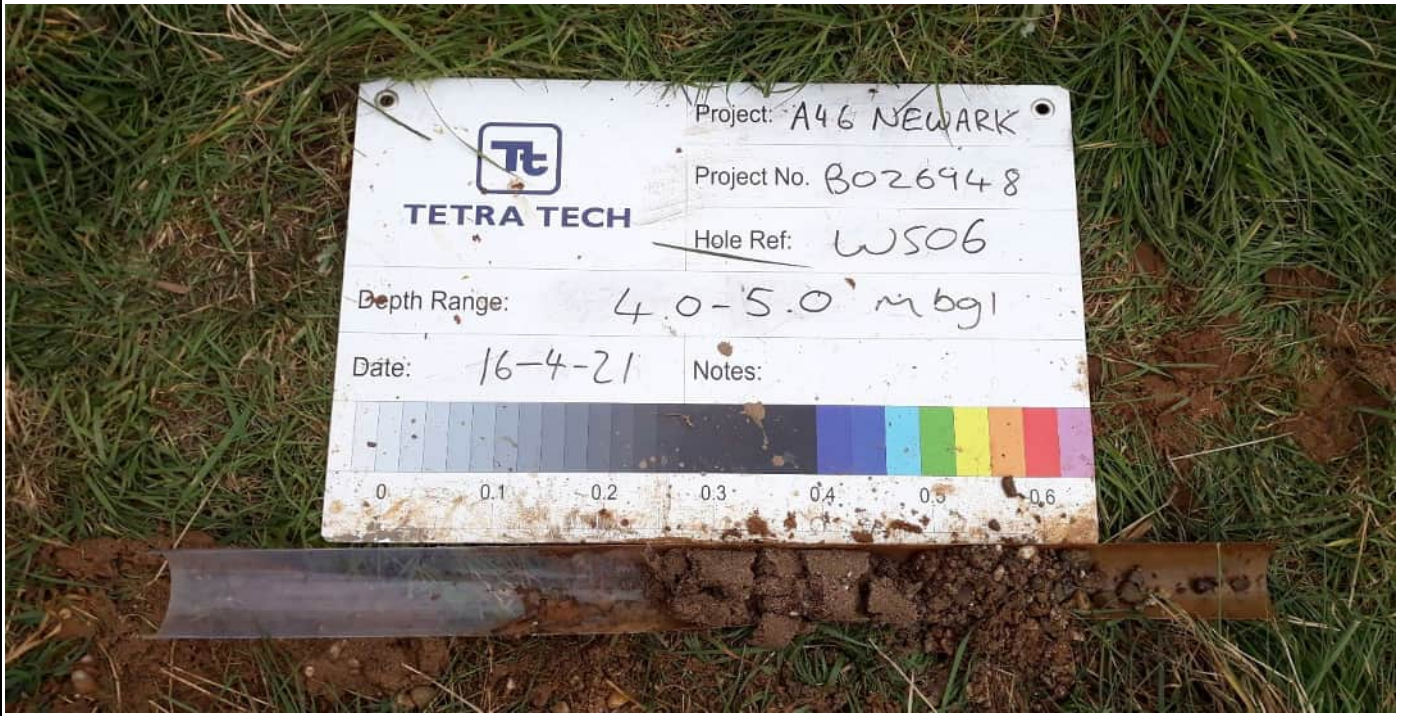


Plate 9

WS06 - 4.00 to 5.00m bgl

Plate 10

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Plate 11 WS08 - Hand Pit GL to 1.20m bgl



Plate 12 WS08 - 1.20 to 2.00m bgl

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Plate 13

WS08 - 2.00 to 3.00m bgl



Plate 14

WS08 - 3.00 to 4.00m bgl

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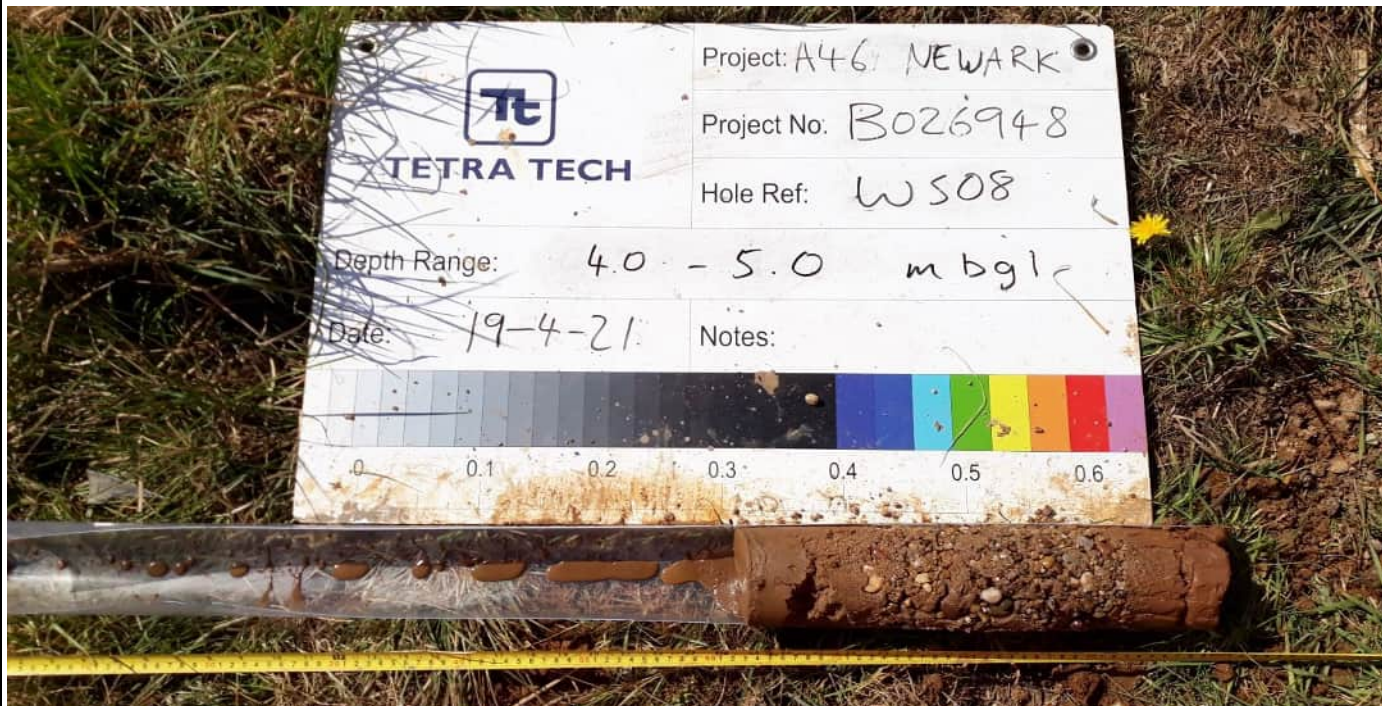


Plate 15

WS08 - 4.00 to 5.00m bgl



Plate 16

WS08 - 5.45 to 6.00m bgl

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Plate 17

WS10 - Hand Pit GL to 1.20m bgl



Plate 18

WS10 - 1.20 to 2.00m bgl

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Plate 19

WS10 - 2.00 to 3.00m bgl (Damaged Liner)

Plate 20

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Plate 21

WS12 - Hand Pit GL to 1.20m bgl



Plate 22

WS12 - 1.20 to 2.00m bgl

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Plate 23

WS13 - Hand Pit GL to 1.20m bgl

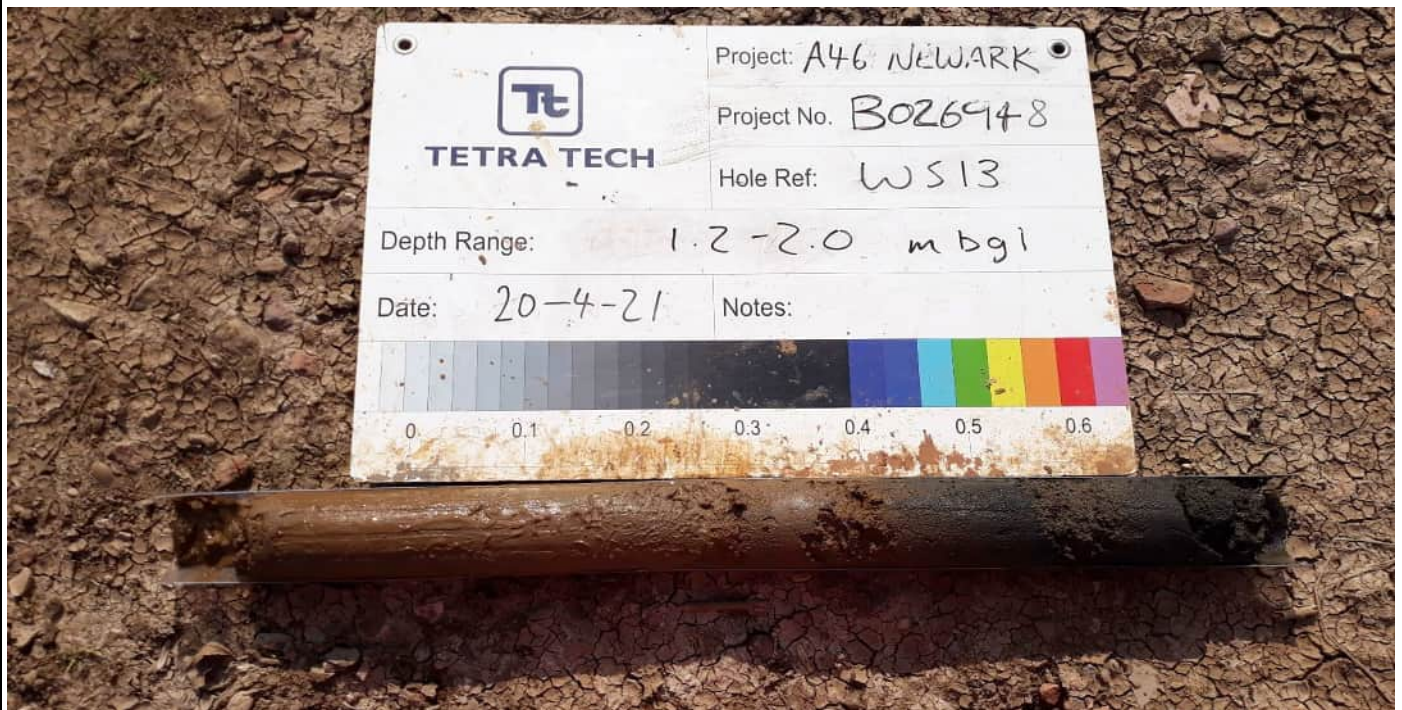


Plate 24

WS13 - 1.20 to 2.00m bgl

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Plate 25

WS13 - 2.00 to 3.00m bgl

Plate 26

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Plate 27

WS15 - Hand Pit GL to 1.20m bgl

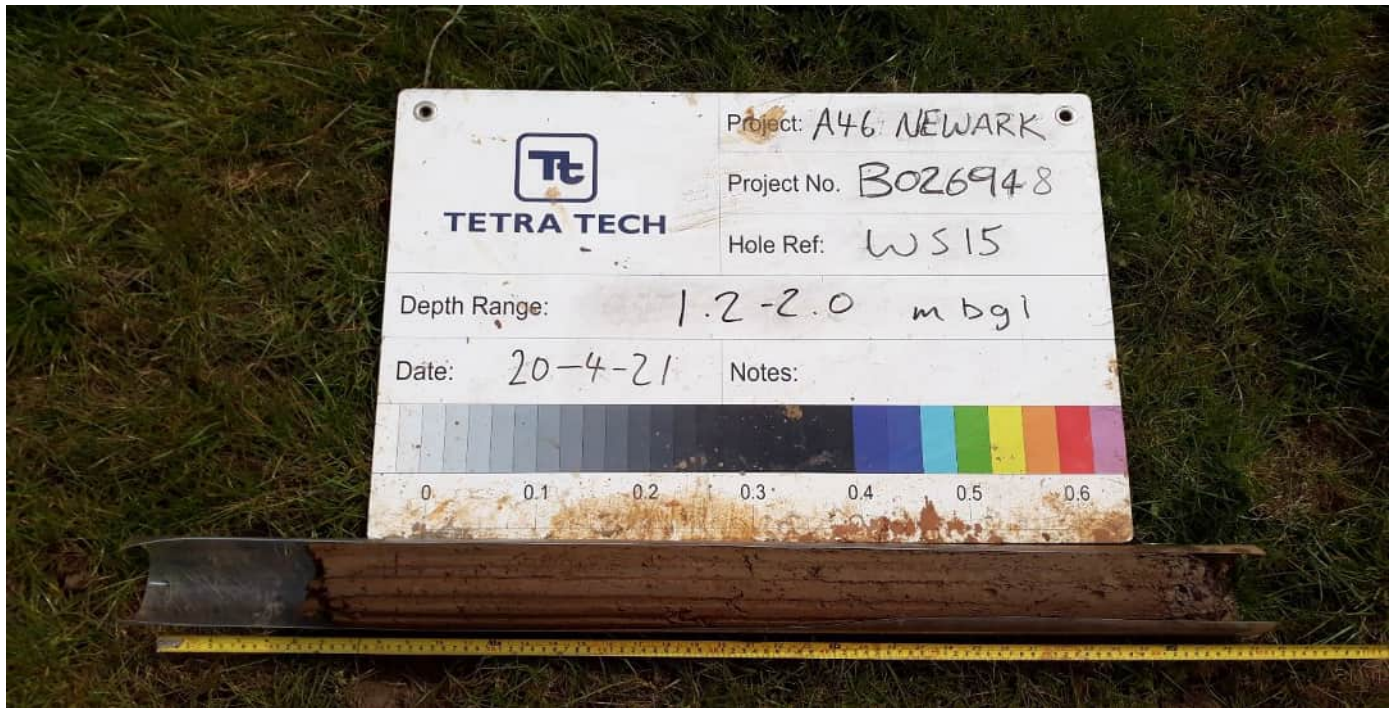


Plate 28

WS15 - 1.20 to 2.00m bgl

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Plate 29

WS15 - 2.00 to 3.00m bgl

Plate 30

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