

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	TR010065
Reference	
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	



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Appendix D: Factual reports



TETRA TECH Depth Range: 10.50 Date: 1/7/21	Notes:	II-84 12-0.
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Plate 69 BH09 - 10.50 to 13.50m bgl		
TETRA TECH Proj		
Plate 70 BH09 - 13.50 to 16.50m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 71 BH09 - 16.50 to 19.50m bgl		
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Plate 72 BH09 - 19.50 to 22.50m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 73 BH09 - 22.50 to 25.00m bgl	
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Tetra Tech Project :- Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation Project No.: B026948	

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Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consultancy Ground Technologies & Investigation		Project No.: B026948	Oct-21



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Plate 79 BH10 - 16.10 to 19.10m bgl		
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Plate 80 BH10 - 19.10 to 22.10m bgl	Ducient	
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 81 BH	110 - 22.10 to 25.00m bgl		
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Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy	TETRA TECH	A46 NNB	Oct 21
Environmental Consultancy Ground Technologies & Investig	gation	Project No.: B026948	Oct-21

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Plate 83 BH11 - 6.70 to 11.20m bgl		
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Plate 84 BH11 - 14.20 to 17.20m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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

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Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



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Plate 91 BH12 - 16.50 to 19.50m bgl		
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Plate 92 BH12 - 19.50 to 22.50m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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5th Floor, Longcross Court 47 Newport Road Cardiff	1	A46 NNB	
CF24 0AD Tel: 029 20 829200	TETRA TECH		
Fax: 029 20 455321 Environmental Consultancy		Project No.: B026948	Oct-21
Ground Technologies & Investigation		- ,	



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Plate 99 BH13 - 7.00 to 8.00m bgl		
TETRATECH Depth Range: 8.0 Date: 244/6/21		
Plate 100 BH13 - 8.00 to 10.00m bgl	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff	A46 NNB	
CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21









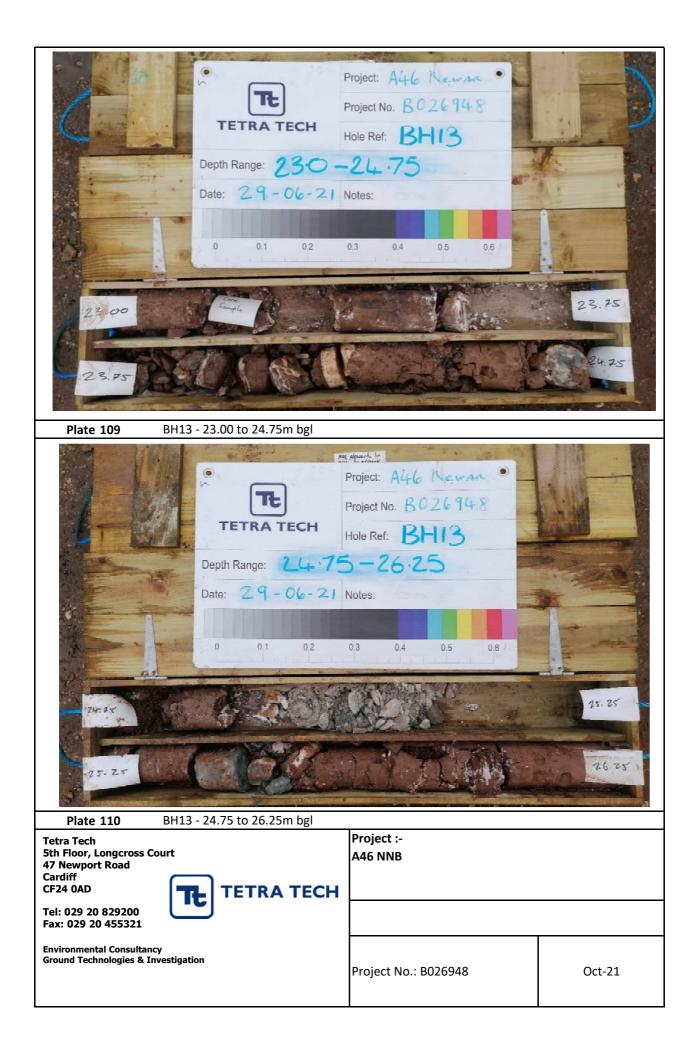
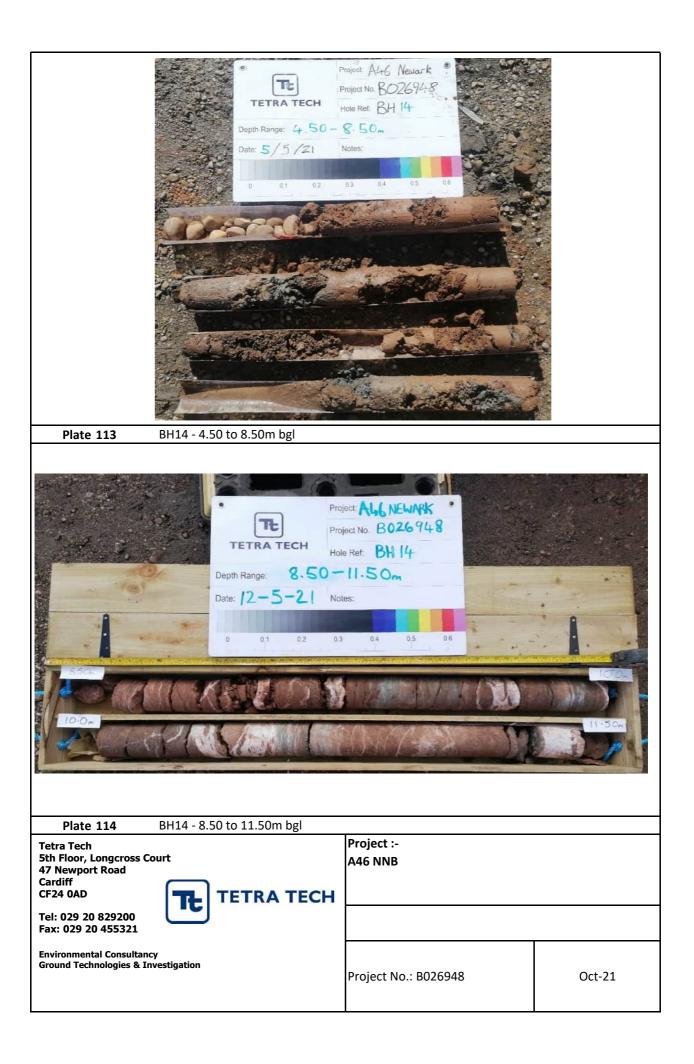


Plate 111 B	Proj TETRA TECH Proj Depth Range: 26.25 Date: 2.9 - 06 - 21 Not	es: 24.33	27.50
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Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inves	stigation	Project No.: B026948	Oct-21



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Plate 115 BH14 - 11.50 to 14.50m bgl		
Plate 115 BH14 - 11.50 to 14.5011 bgi		
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Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

Plate 117 BH14 - 20.50 to 23.50m bgl	5-23.5	
TETRA TECH Depth Range: 23.5-	Project: A46 Newark® Project No. B0 26948 Hole Ref: BH 14 25 OA Notes:	
Plate 118 BH14 - 23.50 to 25.00m bgl Tetra Tech Image: Comparison of the second seco	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21









Plate 125 BH15 - 25.00 to 28.00m bgl

	TETRA TECH	Project: A46 Newark * Project No. BO26948 Hole Ref: BH15	
	Depth Range: 28.00 Date: 23/4/21		
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Plate 126	3H15 - 28.00 to 29.50m bgl		
Tetra Tech 5th Floor, Longcross Cour 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	rt	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Invo	estigation	Project No.: B026948	Oct-21



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Plate 129 BH16	- 4.50 to 7.50m bgl		
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Plate 130 BH16 Tetra Tech	- 7.50 to 12.00m bgl	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD	E TETRA TECH	A46 NNB	
Fax: 029 20 455321			
Environmental Consultancy Ground Technologies & Investigat	ion	Project No.: B026948	Oct-21

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Plate 131 BH16 - 12.00 to 15.00m bgl		-13 S
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Plate 132 BH16 - 15.00 to 18.00m bgl Tetra Tech Sth Floor, Longcross Court 5th Floor, Longcross Court TETRA TECH Cardiff TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



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

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Plate 138 BH17 - 3.00 to 4.50m bgl		
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Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 139	BH17 - 4.50 to 7.50m bgl		
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47 Newport Road Cardiff CF24 0AD TETRA TECH		
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Fax: 029 20 455321		
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	Project No.: B026948	Oct-21



Plate 141 BH17 - 13.50 to 18.00m bgl

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Plate 142 BH17 - 19.5 to 22.50m bgl		
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 TETRA TECH	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 143 BH18 - 3.00 to 6.00m bgl		
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Plate 144 BH18 - 6.00 to 9.00m bgl Tetra Tech Image: Content of the second se	Project :-	
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Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 145 BH18 - 9.00 to 11.00m bgl		
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Plate 146 BH18 - 11.00 to 14.00m bgl		
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Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



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Plate 149 BH18 - 19.00 to 22.00m bgl		
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Plate 150 BH18 - 22.00 to 23.50m bgl		
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



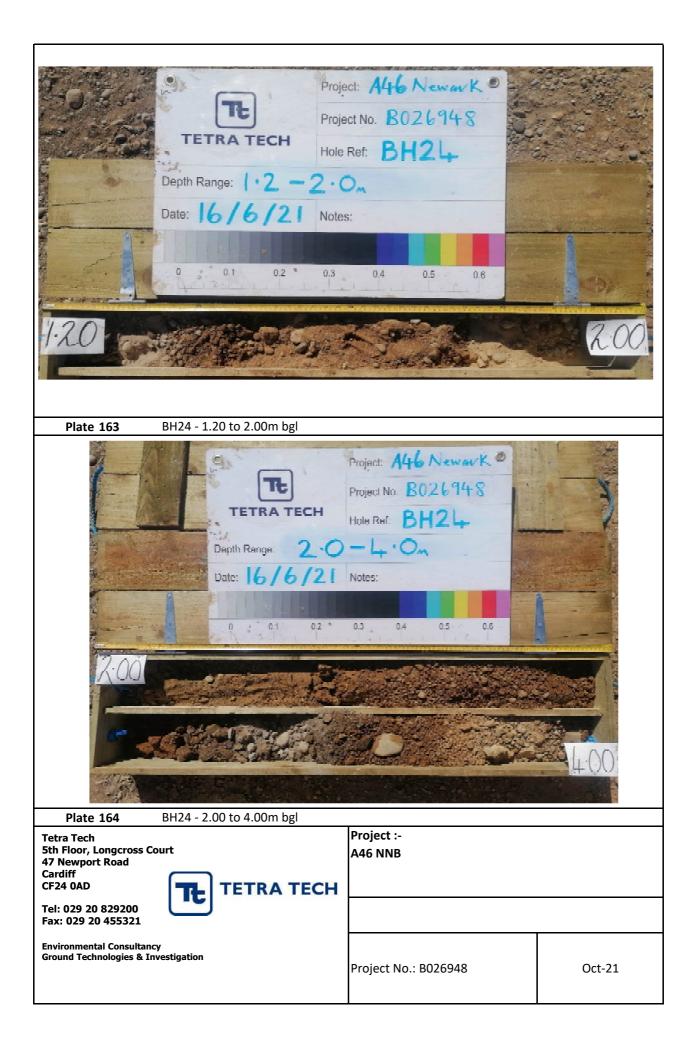


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Plate 155 BH19 - 9.00 to 12.00m bgl		
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Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



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Plate 159	BH21 - 6.00 to 13.50m bgl		
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Cardiff CF24 0AD	TETRA TECH		
Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consulta Ground Technologies & 1	ncy Investigation	Project No.: B026948	Dec-21

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Plate 161 BH22 - 1.20 to 3.00m bgl		
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5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21



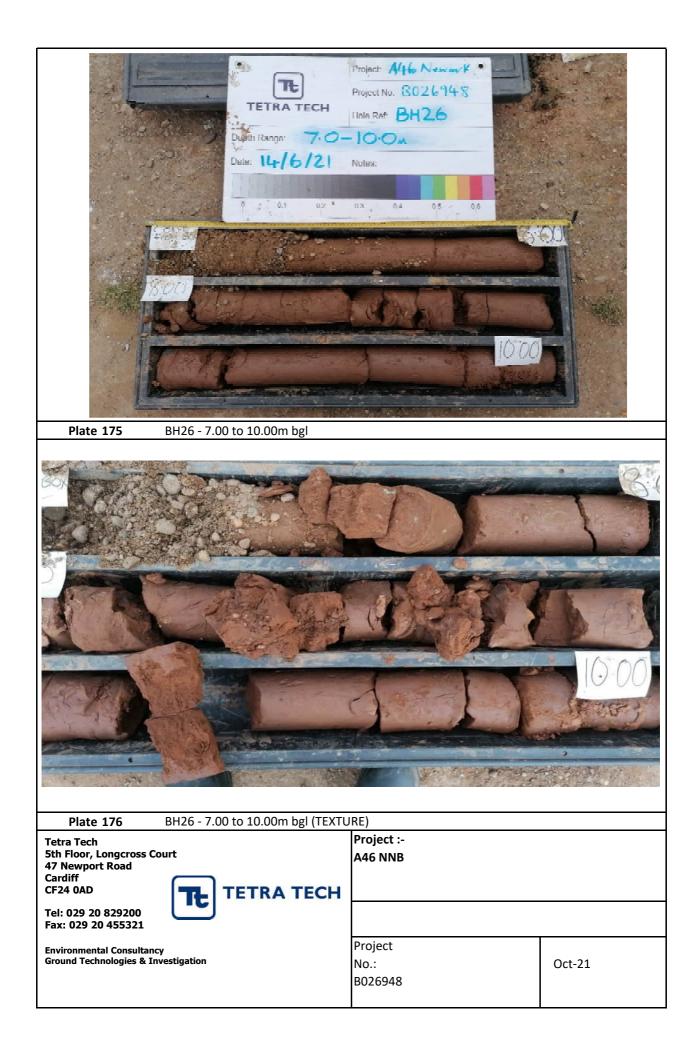
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Plate 165 BH24 - 4.00 to 6.00m bgl		
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47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200	A46 NNB	
Fax: 029 20 455321	Project	
Environmental Consultancy Ground Technologies & Investigation	No.: B026948	Oct-21















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Plate 181 BH28 - 1.20 to 2.00m bgl		
Depth Range: 2.0	otes:	
Plate 182 BH28 - 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	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

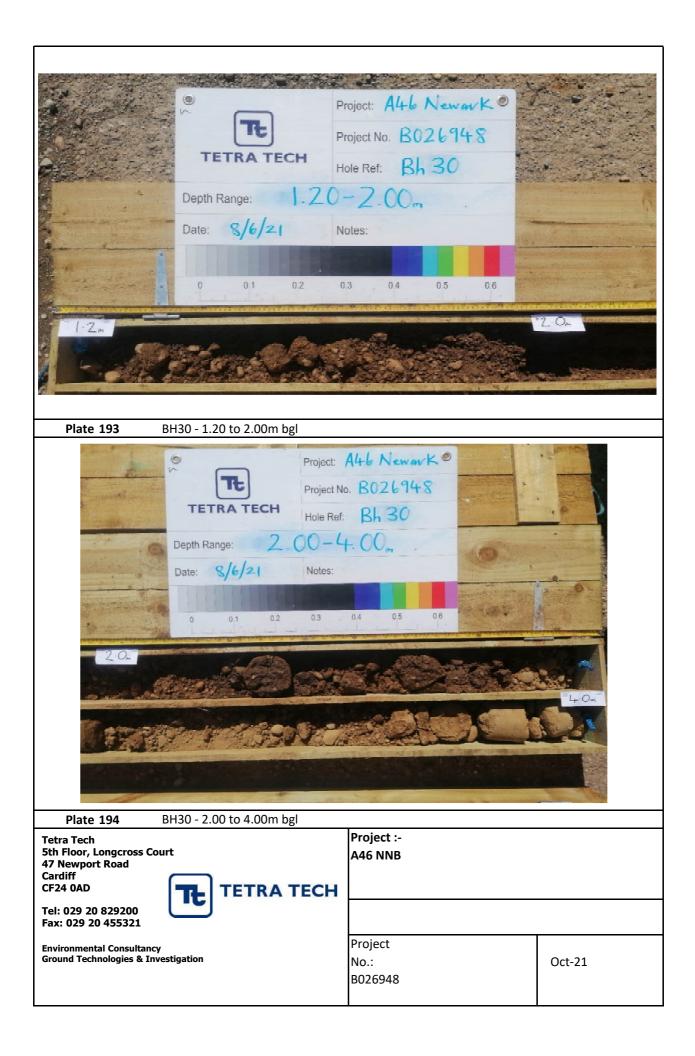
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Plate 183 BH28 - 4.00 to 6.00m bgl		
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Plate 184 BH28 - 6.00 to 8.00m bgl		
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

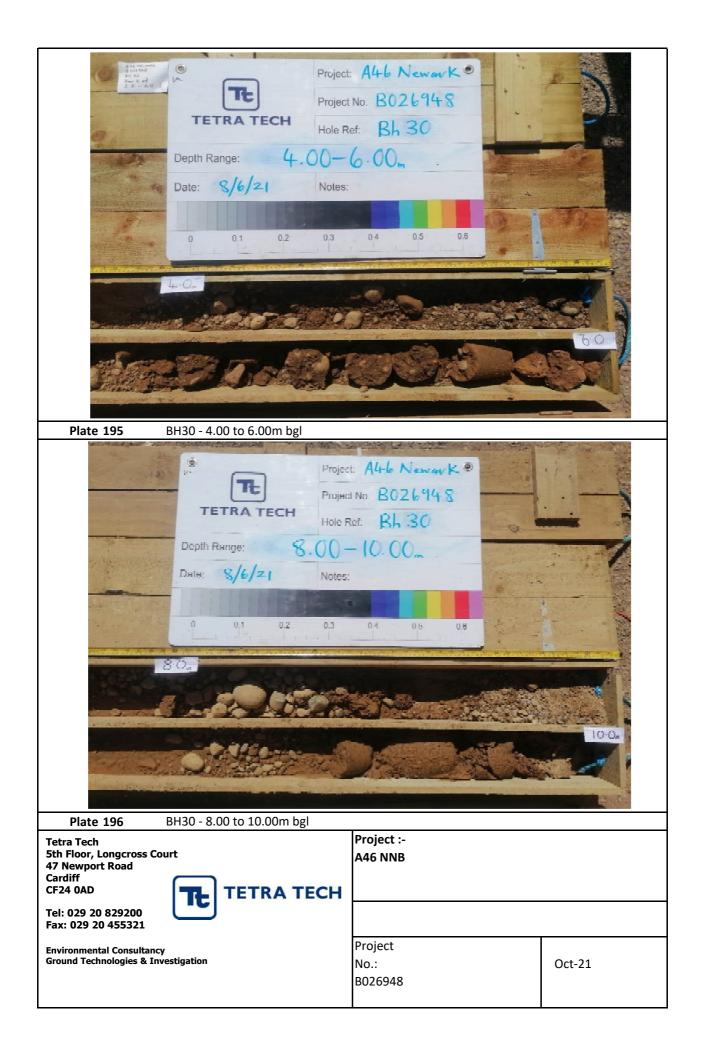
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Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy	A46 NNB Project	
Ground Technologies & Investigation	No.: B026948	Oct-21

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Plate 187 BH29 - 1.20 to 2.00m bgl		2.00
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Plate 188 BH29 - 2.00 to 4.00m bgl		
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 189 BH29 - 4.00 to 6.00m bgl		
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Plate 190 BH29 - 6.00 to 8.00m bgl	Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

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Plate 191 BH29 - 8.00 to 10.00m bgl		
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Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321	Project	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21





Piete 197 BH30 · 10.00 to 12.00m bgl Piete 198 Diete 1 · 10			
Pice 197 BH30 - 10.00 to 12.00m bgl Pike 198 BH30 - 10.00 to 12.00m bgl Pike 198 BH30 - 10.00 to 12.00m bgl Pike 198 BH30 - 10.00 to 12.00m bgl Tetra Tech 5th Hoor, Longeross Court 47 Megner Mad Cravia Man Project 1: Ad NNB Tetra Set 5th Hoor, Longeross Court 47 Megner Mad Cravia Man Project 1: Ad NNB Tetra Set 5th Hoor, Longeross Court 47 Megner Mad Cravia Man Project 1: Ad NNB Tetra Set 5th Hoor, Longeross Court 47 Megner Mad Cravia Man Project 1: Ad NNB Tetra Set 5th Hoor, Longeross Court 47 Megner Mad Cravia Man Project 1: No:: Cravia Man Detta 13		oject No. B026948	
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Plate 197 BH30 - 10.00 to 12.00m bgl Plate 197 BH30 - 10.00 to 12.00m bgl Project Mob B02 (544 S) Depth Range: 12.00 - 14.00m B0.2 (544 S) Depth Range: 12.00 - 14.00m Project Mob B02 (544 S) Depth Range: 12.00 - 14.00m Depth Range: 12.00 - 14.00m Depth Range: 12.00 - 14.00m Depth Range: 12.00m Depth Range: 12.00m Depth Range: 12.00m Project I:- Ad6 NNB Depth Range: 12.00m Text: 202 20 455521 Depth Range: 12.00m Environmental Consultary: 30m Depth Range: 12.00m Sci 202 20 455521 Depth Range: 12.00m	Date: 8/6/21 No	tes:	
Plate 197 BH30 - 10.00 to 12.00m bgl Plate 197 BH30 - 10.00 to 12.00m bgl Project: A446 Nexwork © Project: BH30 - 10.00 to 12.00m bgl Plate 198 BH30 - 10.00 to 12.00m bgl <	0 0.1 0.2 0.3	3 0.4 0.5 0.6	
Pate 198 BH30-10.00 to 12.00m bg! Project 1:- Ad6 NNB			
Pate 198 BH30-10.00 to 12.00m bg! Project 1:- Ad6 NNB	" massing and the states		(2.00)
Pate 198 BH30-10.00 to 12.00m bg! Project 1:- Ad6 NNB			
Project 1:- Afé NNB	Plate 197 BH30 - 10.00 to 12.00m bgl		
Plate 198 BH30 - 10.00 to 12.00m bgl Ptate 198 BH30 - 10.00 to 12.00m bgl Ftra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff Cr24 OAD Project :- A46 NNB Tet: 029 20 829200 Fax: 029 20 455321 Project :- A60 NNB Environmental Consultancy Ground Technologies & Investigation Project No.: Oct-21	TETRA TECH Proje	Ref: BL 30	
Tetra Tech Project :- Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Project Ground Technologies & Investigation Oct-21	Date: %/6/21 Note	s:	
Tetra Tech Project :- Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Project Ground Technologies & Investigation Oct-21	1200 California de California - Salar		
Tetra Tech Project :- Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Project Ground Technologies & Investigation Oct-21			
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD A46 NNB Tel: 029 20 829200 Fax: 029 20 455321 TETRA TECH Environmental Consultancy Ground Technologies & Investigation Project No.: Oct-21	, and the second s	Project :-	
Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation Project No.: Oct-21	5th Floor, Longcross Court 47 Newport Road Cardiff		
Environmental Consultancy Project Ground Technologies & Investigation No.: Oct-21	Tel: 029 20 829200		
	Environmental Consultancy Ground Technologies & Investigation	No.:	Oct-21

Pr TETRATECH He Depth Range: [4, 0 Date: \$/6/2.1 N	oject No. B026948 ole Ref: BL 30 0-16.00, otes:	
Plate 199 BH30 - 14.00 to 16.00m bgl		
Plate 200 BLANK Tetra Tech	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	No.: B026948	Oct-21



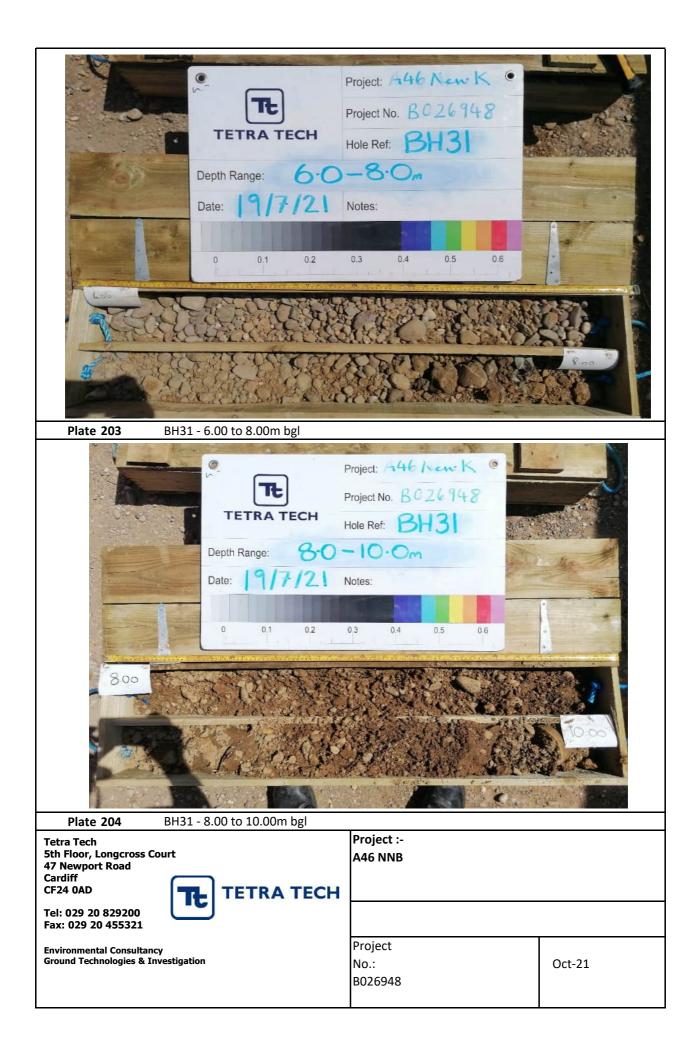


Plate 205 BH31 -	TETRA TECH	Project: A46 New K Project No. B026948 Hole Ref: BH31 D-12:0A Notes:	
Plate 206 BLANK		Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	A46 NNB	
Environmental Consultancy Ground Technologies & Investigatio	n	Project No.: B026948	Oct-21

Date: 02/06/21	Project: A46 Newark • Project: No Ro 2694 8 Hole Ref: Bh< 32 - - - O.3 0.4 0.5 0.6 0.6	200
Plate 207 BH32 - 1.20 to 2.00m bgl		
TETRA TECH Depth Range: 2.00	Project: A46 Newark $^{\circ}$ Project No. B0 2694 8 Hole Ref: Bb 32)-4.00 Notes: 03 0.4 0.5 0.6 L+ 0A	
Plate 208 BH32 - 2.00 to 4.00m bgl Tetra Tech Plate 208	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200	A46 NNB	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

Proj	A CONTRACT OF A	
	free Alexandree Alexandree	6.00
Plate 209 BH32 - 4.00 to 6.00m bgl		
ETRA TECH Depth Range: 6.00 Date: 02/06/21 0 0.1 02 6000	Project: A46 Newark Project No. 180 2694 8 Hole Ref: 8h 32 - 8.00m Notes: 0.3 0.4 0.5 0.6	
Plate 210 BH32 - 6.00 to 8.00m bgl Tetra Tech Plate 210	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21
	1	

Deth Range: 2.0 Date: 02/06/21	Project: A46 Newak Project No. 180 2694 8 Hole Ref: 85.33 O-4.00 Notes:	
Plate 211 BH33 - 2.00 to 4.00m bgl		
Pro	tes.	
Plate 212 BH33 - 4.00 to 6.00m bgl Tetra Tech Plate 212	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

Image: 0 Depth Range: 6 Date: 02/06/21	oles:	
Depth Range: 8.	Project: A46 Newark Project: Project: No. B0 26948 Hole Ref: Bh. 33 00 - 10.00, Notes:	
Plate 214 BH33 - 8.00 to 10.00m bgl Tetra Tech Sth Floor, Longcross Court 47 Newport Road Courd file	Project :- A46 NNB	
Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

Proje		
Plate 215 BH33 - 10.00 to 12.00m bgl		
Plate 216 BLANK		
Tetra Tech	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Fax: 029 20 455521 Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

	Project: A4	46 Newark - North	ern Bypass			cation Deta			S	tatus	Pit Nu	mber
TŁ				-	478072.		ing: 352				TP	01
TETRA TECH		ewark-on-Trent, N	ottingnamsnire	Level: Logger:	11.07mA AH	OD Depth Type:		Jm		NAL		,1
	Client: Hi	ighways England				y Great Brita		nal Grid			Sheet :	1 of 1
		Hole Inform					Groundv		1		Scale:	1:25
	Pit Dimensio			Strike (2.00		Rose To (m) 1.00	Afte	er (mins) 10	R Strike at 2.0	emarks 00m, 1.0	Om after	NEB
		Shoring: ^m Stability:	None Stable						10	minutes	Start Date:	JC 07/06/2021
	m	Plant:	JCB 3CX								Finish Date:	07/06/2021
	c	Strata Description		Legend	Depth (m)	Reduced Level	Water	Backfill			Samples and Testing	
				Legend	Depar (iii)	(mAOD)	Level (m)	buckini	Depth (m)	Ref	Tests / Results	
Grass over: Dark to medium sub ro		edium SAND. Occasional fine									-	
ТОР									0.20	ES001		-
Coft dark brown	mottlad raddich	brown dightly cand	/ CLAY. Sand is fine to		0.35	10.72						-
medium.						0.50	D001	HV 0.50m, (p)=43.0 kPa (r)=43.0	- -) kPa —			
(ALLUVIUM)									0.50 - 0.70	B001		-
												-
					-							-
									1.00	D002	HV 1.00m, (p)=62.0 kPa (r)=62.0	- - - kPa 1
									1.00	ES002		-
Soft to firm bluis	h arev verv sand	dv sandv GRAVEL. Sa	and is fine to medium.		1.20	9.87						-
(ALLUVIUM)	5 - 7 - 7	· · · · · · · · · · · · · · · · · · ·										-
									1.40 - 1.60 1.40 - 1.60	B002 B2		-
												-
Dark grev SAND	AND GRAVEL, S	and is medium to co	arse. Gravel is medium to		1.70	9.37						-
coarse sub angul	lar to sub round	ed quartzite.							1.80	D003		-
(ALLUVIUM)												2 -
Ded been allab			and the second sector such		2.10	8.97						2
rounded quartzite	e. Sandy GRAVI	LL of medium to coa um to coarse.	rse sub angular to sub						2.20 - 2.40	B003		-
(ALLUVIUM)												-
												-
												-
												-
												-
					3.00	8.07						3 -
	EOH at 3.0	00m - Target depth ac	hieved		5.00							-
												-
												-
												-
												-
												-
												-
												4
												· -
												-
												-
												-
												-
												-
												-
					-							5 -
Observations / Re	emarks										3rd floor,	
		ackfilled with arisings.									54 Hagley Rd, Birmingham	
											B16 8PE 0121 516 5320	
										F	Project Numb	ber
											784-B0269) 48

	Project: A46 Nev	vark - Northern Bypass			cation Deta	ails	S	tatus	Pit Number			
Tŧ			-	478066.		ing: 352987	7.84	-1				
TETRA TECH		on-Trent, Nottinghamshire	Level: Logger:	10.80mA	OD Depth Type:				NA		TPO)2
	Client: Highway	/s England				ain National	Grid				Sheet 1	l of 1
		Hole Information				Groundwate					Scale:	1:25
	Pit Dimensions	Orientation: °	Strike (2.00		Rose To (m) 1.20	After (n 20		R Strike at	emarks	rose to	Checked By:	NEB
	m	Shoring: None Stability: Stable	2.00		1.20	20			1.20m		Approved By: Start Date:	JC 07/06/2021
	m	Plant: JCB 3CX									Finish Date:	07/06/2021
					Reduced	Water				Sample	s and Testing	
	Strata L	Description	Legend	Depth (m)	Level (mAOD)	Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
TOP Soft orangish bro (ALLUVIUM) Dark brown SAN	own sandy CLAY. Sand D AND GRAVEL. Sand i ounded quartzite.	e to medium. (TOPSOIL)		0.55	10.24 9.40 8.60			0.20 0.50 0.80 - 1.00 0.80 - 1.00 1.00 1.00 1.50 - 1.70	D001 B001 B1	HV 0.60m,	, 0.0ppm (p)=34.0 kPa (r)=34.0 (p)=40.0 kPa (r)=40.0 0.0ppm	
Observations / Re 1. Upon completion	emarks exploratory hole backfilled	with arisings.								3rd floc 54 Hagi Birming B16 8PI 0121 516	Iham E	4 5
											784-B0269	

	Project: A46 Newark - Northern Bypass		Loc	ation Deta	ils		S	tatus	us Pit Number			
TŁ		-	478089.8		ng: 353				.			
TETRA TECH	Location: Newark-on-Trent, Nottinghamshire	Level: Logger:	10.46mA	OD Depth Type:		ām		NA	L	TPC)3	
	Client: Highways England			y Great Brita		nal Grid				Sheet 1	l of 1	
	Hole Information			Ģ	Groundw	vater			:	Scale:	1:25	
	Pit Dimensions Orientation: °	Strike (m) Rose To (m) 1.30 1.10			Afte	er (mins) 20	R	emarks		Checked By:	NEB	
	Shoring: None ^m Stability: Stable	1.50	,	1.10		20				Approved By: Start Date:	JC 07/06/2021	
	m Plant: JCB 3CX									Finish Date:	07/06/2021	
				Reduced						and Testing		
	Strata Description	Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results		
TOP Medium strength is fine to medium (ALLUVIUM) Very soft dark br Gravel is fine to r (ALLUVIUM)	own mottled orangish brown slightly gravelly sandy CLAY. medium. Gravel is fine sub angular quartzite. mottled grey slightly clayey medium to coarse SAND. band of		0.42	(mAOD) 10.04 9.72 9.22 8.72			0.20 0.50 0.50 - 0.60 1.00 1.10 - 1.20 1.10 - 1.20 1.60 - 1.75	Ref ES001 D001 B001 D002 ES002 B02 B003 B003	HV 0.50m, (p)=55.0 kPa (r)=55.0	1	
											4-	
			-								5-	
Observations / Re	marks								3rd floor			
1. Groundwater not									54 Hagle Birmingl B16 8PE 0121 516	nam		
										Project Numb 784-B0269		
1									1			

Interestion Operation State (see (see (see (see (see (see (see (s		Project:	A46 Nev	wark - North	ern Bypass	Factor		ition Deta		407.07	S	Status Pit Number			
Clinit Highways England Conversions		Location:	Newark	-on-Trent, N	lottinghamshire	-					F]	NA	L TP04	ТР04	
Hole Information Description Source Hole Information: Planting		Client:	Highwa	ys England									Sheet 1 of 1	of 1	
Image: Note: Static 1.0				Hole Inform	nation	orunu	ice buivey							1:25	
Image: Note: Note	Ē	Pit Din	nensions						Afte		R	emarks		NEB	
Image: Table Description Image: Terms Terms <td></td> <td></td> <td>m</td> <td>_</td> <td></td> <td>1.10</td> <td></td> <td>1.20</td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td>JC 06/2021</td>			m	_		1.10		1.20		20				JC 06/2021	
State Description Lund Rank (b) Rank (b) <thrank (b)<="" th=""></thrank>		m]											06/2021	
Grass over: dark brown slightly sandy CLAV. Sand is fine to medium. Frequent models observed. (CPS-001.) To Medium strength reddish brown CLAV. Frequent rootleds observed. (CLAV. Sand is fine to medium. Frequent fine to medium sub-angular to sub-rounded quartalic. Sand is fine to medium. (LLLM/LM) (LLM/LM)			Strata [Doccription		Logond	Dopth (m)			Packfill		1	Samples and Testing	-	
Include solvered. (CIOPSOIL) TOP Medium strength reddish brown CLAY. Frequent roatiets observed. ALLUVIUM) Medium strength reddish brown muttled brown slightly gravely sandy CLAY. Strength inclum sub angular to sub rounded quartate. Sand is fine to medium. ALLUVIUM) ECH at 2.50m - Target depth achieved ECH at 2.50m - Target depth achieved I I I I I I I I I I I I I I I I I I I							Deptil (III)	(mAOD)	Level (m)		Depth (m)	Ref	Tests / Results		
Medium strength reducts frown LLY. Frequent robets diservel. 0.00 9.53 e.e.	otlets observed.			LAY. Sand is						0.10	ES001				
Adduction strength readiab brown mottled brown slightly gravely sandy CLAY. 0.40 9.55 0.50 000 W1 300, (0+22 0 V2 (>423 0 V2		reddish bro	own CLAY.	Frequent root	lets observed.		0.30	10.05							
Addient oberight reddeh brown midded brown slightly gravelly sandy CLAY. 0.00 9.55 Image: Imag						F	-				0.50		HV 0.50m, (p)=52.0 kPa (r)=52.0 kPa		
Hearden stereight reduces norwen motile to room motile to brown motile to room motile to sub roonded quartities. Sand is fine to medium. ALLUMUM) The data is the to medium. ALLUMUM) The data is the to coarse SAND. ALLUMUM is and y very silty CLAY. Sand is fine to medium. ALLUMUM is a set of the to coarse SAND. ALLUMUM is a set of the to coarse SAND. ALL						E- <u>-</u> -					0.50 0.70	5001			
Sravel is fine to medium sub angular to sub rounded quartzite. Sand is fine to medium. ALLUYIUM) Low strength bluich grey slightly sandy very slity CLAY. Sand is fine to medium. ALLUYIUM) EOH at 2.50m - Target depth achieved EOH at 2.50m - Target depth achieved I I I I I I I I I I I I I I I I I I I							0.80	9.55							
ALLUVIUM) 1.0	ravel is fine to m	nedium sub	own mottle o angular to	d brown slight	quartzite. Sand is fine to										
Low strength bluich grey slightly sandy very slip CLAY. Sand is fine to medium. ALLUYUM) Dark grey slightly fine to coarse SAND. ALLUYUM) EOH at 2.50m - Target depth achieved COM at 2.50m - Target depth ac											1.00 1.00	D002 ES002	HV 1.00m, (p)=58.0 kPa (r)=58.0 kPa	1	
Add Steright builting grey signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the to medium. Image: Signify sandy very sing LLAT. Sand is the top sandy very sing LLAT. Sand is the top sandy very sandy ve	,														
ALLUYUM) Terminal and the to coarse SAND. ALLUYUM) Terminal and the to coarse SAND. Terminal and the tocarse SAND. Terminal and the tocarse SAND. Terminal an															
ECHIEN IN THE TO COARSE SAND. ALLUMIUM) ECHI at 2.50m - Target depth achieved ECHI at 2.50m - Target depth achieved I I I I I I I I I I I I I I I I I I I	w strength bluis	ish grey slig	htly sandy	very silty CLA	Y. Sand is fine to medium.		1.40	8.95			1 50	Doco	HV 1 E0m (n)=22 0 km (+) - 22 0 km		
EOH at 2.50m - Target depth achieved EOH at 2.50m - Target depth achi	LLUVIUM)										1.50 - 1.70 1.50 - 1.70	B002 B2	HV 1.50m, (p)=33.0 KPa (r)=33.0 KPa		
EOH at 2.50m - Target depth achieved 2.50 7.85											1.60	ES003			
EOH at 2.50m - Target depth achieved 2.50 7.85															
ALLUVIUM)		. C	CAND				2.00	8.35						2	
		/ fine to coa	arse SAND.												
		EOH	at 2.50m - T	arget depth ac	hieved		2.50	7.85							
hervations / Remarks															
heevations / Remarks															
reservations / Remarks															
vervations / Remarks														2	
vervations / Remarks															
vervations / Pemarks															
securations / Remarks															
regretations / Remarks															
reprovations / Remarks															
servations / Remarks															
Servations / Remarks															
servations / Remarks															
servations / Remarks															
servations / Remarks															
Servations / Remarks															
servations / Remarks															
nservations / Remarks 3rd floor,															
nservations / Remarks 3rd floor,															
nservations / Remarks 3rd floor,											1				
54 Hagley Rd,													3rd floor, 54 Hagley Rd, Birmingham		
Groundwater not observed. Birmingham Upon completion exploratory hole backfilled with arisings. B16 8PE 0121 516 5320			xploratory ho	ble backfilled wit	th arisings.								B16 8PE		
VI2I 516 520 Project Number															
													784-B026948		

	Project:	A46 Net	wark - Nort	hern Bypass	Easting:	Loc 478240.7	ation Deta	ails ing: 353	9	Status	us Pit Number				
Ŧ	Location:	Newark	-on-Trent,	Nottinghamshire	Level:	10.30mA		n: 2.8		F	[NA	L	TP	05	
TETRA TECH	Client:	Highwa	ys England		Logger: Ordnan		Type: Great Brita				Sheet 1 of 1				
			Hole Infor	mation	oranan			Ground				Scale		1:25	
	Pit Dir	nensions	Orientation:		Strike (Rose To (m) 1.20	Aft	er (mins) 20	R	emarks		ed By:	NEB	
		m	Shoring: Stability:	None Stable	1.50		1.20		20			Appro	ved By: Date:	JC 07/06/2021	
	m		Plant:	JCB 3CX									Date:	07/06/2021	
		Strata	Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref	Samples and Tes	Testing ts / Results		
				ing very sandy, CLAY. Sand is ounded quartzite. (TOPSOIL)											
ОР										0.20	ES001				
										0.50	5001	HV 0.50m, (p)=35	0.10- (-) 25 () L.D	
										0.50 0.50 - 0.70	D001 B001	HV 0.50m, (p)=35	.0 кРа (r)=35.0	Јкра	
Reddish brown v	very clayey f	fine to coar	se SAND.			0.90	9.40								
ALLUVIUM)										1.00 1.00 1.10 - 1.20	D002 ES002 B002			1	
oark bluish grey ALLUVIUM)	clayey med	lium to coa	rse organic n	nedium to coarse SAND.	5116 516	1.50	8.80			1.60 1.60	B4 D003				
,					alie, a					1.60	D003				
					alle, al										
ight house CAN			io medium 1		.slic	2.10	8.20			2.00	ES003			2	
ignt brown SAN oarse sub angu ALLUVIUM)	lar to sub ro	ounded qua	is medium to artzite.	o coarse. Gravel is medium to						2.20 - 2.40	B003				
	EOH	at 2.80m - 1	Target depth a	chieved		2.80	7.50								
														3	
														4	
														5	
bservations / Re Groundwater not					•							3rd floor, 54 Hagley Rd Birmingham	,		
Upon completion		xploratory h	ole backfilled w	ith arisings.								Birmingham B16 8PE 0121 516 5320			
												Pr	oject Num	ber	
												78	4-B026	948	

	Project:	A46 Nev	vark - North	ern Bynass		Loo	cation Deta	ails		S	tatus	tus Pit Number			
TŁ	-				Easting:	478594.		ing: 354					тр	NO	
TETRA TECH	Location:		-	ottinghamshire	Level: Logger:	9.98mA0 SC	DD Depth Type:		Jm		NA	-	TP	18	
	Client:	Highway	ys England				y Great Brita		nal Grid				Sheet	1 of 1	
			Hole Inform					Groundv		1			Scale:	1:25	
	Pit Dim	nensions	Orientation:		Strike (1.30		Rose To (m) 1.20	Afte	er (mins) 20	Remarks Strike at 1.30m, 1.20m af			Checked By:	NEB	
		0.60m	Shoring: Stability:	None Collapse of both walls (0.5m)							minutes		Approved By: Start Date:	JC 15/07/2021	
	3.00m	I	Plant:	from 1.0 to 1.5m bgl 360 Tracked Excavator									Finish Date:	15/07/2021	
		Strata D	Description		Legend	Legend Depth (m) Level Water Backfill		Sampl			s and Testing				
			-		Legend	Depar (iii)	(mAOD)	Level (m)		Depth (m)	Ref		Tests / Results		
with occasional r	ootlets of up	p to 1mm d	liameter and r	dy slightly gravelly CLAY, rare subrounded to gular to angular fine to						0.10 - 0.20	ESES1			-	
				nedium. (TOPSOIL)						0.20 - 0.30 0.20 - 0.40	DD6 BB2			-	
Medium strength	hrown mot	tled light or	range slightly	gravelly CLAY. Gravel is		0.45	9.52			0.50 0.60	D4		(m)-45 0 kDm (m)-45 (-	
subangular to an				aceous mudstone.						0.50 - 0.60 0.50 - 0.60 0.50 - 0.60	DD4 ESES3	HV 0.5011,	(p)=45.0 kPa (r)=45.0	- rkPd	
(ALLUVIUM)					· · · · · ·					0.50 - 1.00 0.50 - 1.00	B5 BB5			-	
						1.00	8.98			1.00 - 1.10	ESES7			1-	
Light to mid brov irregular (5-10mr	wn slightly c m) pockets (layey mediı of fine orga	um to coarse inic matter.	SAND, with occasional		1.00	0.50			1.00 - 1.30	BB9			- -	
(ALLUVIUM) mottled orange b										1.20 - 1.30	DD8			-	
										1.30 - 1.50 1.30 - 1.50 1.40 - 1.50	B10 BB10 DD11			-	
EOH at 1 50m	Torminated	l duo to high	water table a	nd instability of trial pit walls	-	1.50	8.48			1.40 - 1.50	ESES12			-	
Eon at 1.50m	- reminated	due to high												-	
														-	
														2 -	
														-	
														-	
														-	
														-	
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														-	
														-	
														- - 5	
Ohan and in 17												2rd F-	.P.	5 -	
Observations / Re 1. Upon completion		ploratory ho	le backfilled wit	h arisings.								3rd floc 54 Hagi Birming	ey Rd,		
		,		-								B16 8PI 0121 516	E		
											ŀ		Project Num	ber	
													784-B026	948	

	Project:	A46 Newark	- Northern Bypass					ils		S	itatus		Pit Nun	nber
TŁ	-												тра	0
TETRA TECH									Jm		.INA		IPU	19
	Client: I	Highways En	gland	-					nal Grid				Sheet 1	. of 1
										1				1:25
	Pit Dimen					n)		Afte	er (mins) 20			0		NEB
										20	minutes	s ('		03/06/2021
	2.40m											F	inish Date:	03/06/2021
		Strata Descri	ntion		egend	Denth (m)	Reduced	Water	Backfill			Samples	and Testing	
					cycliu	Depar (III)	(mAOD)	Level (m)	buckini	Depth (m)	Ref		Tests / Results	
	c brown clayey	fine to mediu	m SAND. (TOPSOIL)							0.10	ES001			
			LAY. Sand is fine to coarse. Ban	ds		0.40	9.94			0.50	B001	HV 0.50m. (n)=43.0 kPa (r)=43.0	kPa
(ALLUVIUM)		/eu.								0.50 0.60	D001 ES002		,	
						0.00		\bullet				HV 0.80m, (p)=60.0 kPa (r)=60.0	kPa
Dark orangish bro	rown slightly g	gravelly clayey	fine to coarse SAND. Gravel is fir	ie to		0.90	9.44			1.00	B002			1
(ALLUVIUM)		qualizite.								1.00	D002			-
Dark brown cand		fina ta coarca	sub angular to sub rounded flint			1.60	8.74							
quartzite. Sand is				anu						1.70	ES003			
(ALLUVIUM)										1.80 - 2.00	B003			
						2.00	8 35	\square		2.00	D003			2
	EOH at 2	2.00m - Target	depth achieved			2.00	0.55			2.00	5005			2
														3
														5
TETRA TECH Docation: Rewarketor Freit, Note: Mightanismice Level: 1.00 1.00 1.00 1.00 TETRA TECH Docation: Heighways England Sheet 1 of 1 Sheet 1 of 1 Sheet 1 of 1 Image: All strain National Grid Shoring: None Shoring: None Image: All strain National Grid Shoring: None Shoring: None Image: All strain National Grid Strata Description Strata Description Strata Description Image: None Strata Description Logend Depth (m) Red Testing Strata Description Strata Description Grass over: Dark brown clayey fine to medium SAND. (TOPSOIL) Image: None Image: None Image: None Image: None Grass over: Dark brown clayey fine to coarse. Bands of fine to coarse. Bands of fine to coarse. Bands of fine to coarse. SAND. Gravel is fine to coarse. Bands of fine to coarse. SAND. Gravel is fine to coarse. SAND.														
TETRA TECN Oper: Highways England Output: Wight Wight Type Type State Information State Information State Information State Information State Description State Descriprion State Description State Des														
														4
														4
	TRA. TECH Dark: Highwaya England User if all User if all Sect 1 of all Produced Starts Hole Information Councedwater Sect 1 of all Sect 1 of all (all of all all all all all all all all all al													
Extra 2 4790.07 Ministry 25470.38 EVALUATION Data Series 25470 EVALUATION DATA S	5													
Extra Provide and the second sec														
Process were compared applications of the to came SAND. Grayed is firms to Compared to came SAND. Grayed														
Description Control Reverts on Trant, Notingabanation Description Status														
Protect Mark Reveals - Norther Bypass Unter: - (1982). 2016 Un														
L													-	

	Project: A46 Newark - Northern Bypass			ation Deta			S	Status	Pit Number
T	Location: Newark-on-Trent, Nottinghamshire	Easting: Level:	479028.9 9.95mAO		ing: 3544 n: 2.70		FI	NAL	TP10
TETRA TECH		Logger:		Туре:			''		
	Client: Highways England	Ordnar	nce Survey	Great Brita					Sheet 1 of 1
	Hole Information Pit Dimensions Orientation: °	Strike ((m)	Rose To (m)	Groundw After	r (mins)	R	emarks	Scale: 1:25 Checked By: NEB
	Shoring: None	2.60		2.40		20			Approved By: JC
	^m Stability: Stable								Start Date: 03/06/2021
	m Plant: JCB 3CX								Finish Date: 03/06/2021
	Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref	Samples and Testing Tests / Results
Grass over: Dark	brown silty fine to medium SAND. (TOPSOIL)			(11400)			Depth (iii)	Rei	
ТОР								50004	
							0.20	ES001	-
Low strength dar	k brown sandy CLAY. Sand is fine to medium.		0.40	9.55					-
(ALLUVIUM)	R brown sundy elect. Sund is nice to medium.		a a				0.50	B001 H	IV 0.50m, (p)=34.0 kPa (r)=34.0 kPa -
			2 2				0.70	D001	-
Madiana karanain			0.80	9.15			0.70	0001	-
CLAY. Sand is fin	g low strength dark brown mottled reddish brown slightly sandy e to medium.		1 1 1						-
(ALLUVIUM)		 	<u>.</u>				1.00		tV 1.00m, (p)=44.0 kPa (r)=44.0 kPa 1 -
			2 2 2				1.10 1.20	B002 D002	-
							1.20	0002	-
								•	IV 1.50m, (p)=39.0 kPa (r)=39.0 kPa
	bluish grey silty CLAY.	×××	1.60	8.35			1.70	ES003	-
(ALLUVIUM)			-				1.70 - 1.80 1.80	B003 D003	-
									-
			-					•	IV 2.00m, (p)=44.0 kPa (r)=44.0 kPa 2
			- -						-
		×_×_~							-
Medium strength (ALLUVIUM)	dark brown sandy CLAY. Sand is fine to medium.		2.35	7.60			2.40	B004	-
(ALLOVION)			2.00	7.25			2.50	D004 H	+V 2.50m, (p)=56.0 kPa (r)=56.0 kPa -
	O AND GRAVEL. Sand is medium to coarse. Gravel is fine to ar to sub rounded flint and quartzite.		2.60 2.70	7.35 7.25			2.70	B005	-
(ALLUVIUM)	EOH at 2.70m - Target depth achieved								-
									-
									3-
									-
									-
									-
									-
									-
									-
									- - 4
									- -
									-
									-
									-
									-
									-
									-
			-				-		- 5 -
Observations / Re	marks			1				\vdash	3rd floor,
1. Groundwater not	observed.								54 Hagley Rd, Birmingham
2. Upon completion	completion exploratory hole backfilled with arisings.								B16 8PE 0121 516 5320
								F	Project Number
									784-B026948

	Project: A4	6 Newark - North	ern Bypass	Easting:	Loca 479181.24	ation Deta	ails ing: 354	1527 75	S	itatus	Pit Nun	nber
Ŧ	Location: Ne	wark-on-Trent, N	ottinghamshire	Level:	10.32mA0				FI	ΝA		1
TETRA TECH	Client: Hig	ghways England		Logger: Ordnan		Type: Great Brita		nal Grid			Sheet 1	of 1
		Hole Inform	nation	Ordinari	ice Survey		Ground				Scale:	1:25
	Pit Dimensio			Strike (ose To (m) 0.00	Aft	er (mins) 0	R	emarks		NEB
			None Stable	1.80		1.70		20	Strike at 1.8 20	30m, 1. minute	70m after s Start Date:	JC 09/06/2021
	m	Hole Information Pit Dimensions Orientation: ° m Shoring: None m Stability: Stable Plant: JCB 3CX Strata Description firm dark brown sandy CLAY. Sand is fine to medium. rown mottled orangish brown slightly sandy CLAY. Sar avelly slightly clayey fine to medium SAND. avelly medium to coarse SAND. Gravel is fine to coarse I quartzite and flint.									Finish Date:	09/06/2021
	S			Legend	Depth (m)	Reduced Level	Water Level (m)	Backfill			Samples and Testing	
Grass over: Soft	Client: Highways England Pit Dimensions Orientation: Pit Dimensions Orientation: m Shoring: None stability: Stable Plant: JCB 3CX Strata Description Soft to firm dark brown sandy CLAY. Sand is fine to media lark brown mottled orangish brown slightly sandy CLAY. wn gravelly slightly clayey fine to medium SAND. wn gravelly medium to coarse SAND. Gravel is fine to counded quartzite and flint. SAND AND GRAVEL. Sand is fine to coarse. Gravel is fine to coarse or sub rounded quartzite and flint.	d is fine to medium			(mAOD)	Lever (iii)		Depth (m)	Ref	Tests / Results		
(TOPSOIL) TOP												
TOP									0.20	ES001	PID 0.20m, 0.5ppm	
									0.50 0.50 - 0.70	D001 B001	HV 0.50m, (p)=37.0 kPa (r)=37.0	(Pa
	brown mottled c	orangish brown sligh	tly sandy CLAY. Sand is fine		0.80	9.52						
to medium. (ALLUVIUM)		- 5	-						0.90	ES002 D002	PID 0.90m, 0.0ppm HV 1.00m, (p)=49.0 kPa (r)=49.0	(Pa 🔹
(//									1.00	D002 D2	1.00m, (µ)=+9.0 KPd (1)=+9.0	(Pa 1
					1.40	8.91						
Orangish brown ((ALLUVIUM)	gravelly slightly o	clayey fine to mediu	m SAND.		1.10	5.51			1.50 1.50 - 1.70	ES003 B002	PID 1.50m, 0.0ppm	
									1.50 - 1.70	B2		
<u> </u>					1.80	8.52			1.70	D003		
angular to round	gravelly medium ed quartzite and	to coarse SAND. Gr flint.	avel is fine to coarse sub									
(ALLUVIUM)												2
Dark brown CAN		Cand is find to cook	o Croud is find to coorco		2.20	8.12						
sub angular to su			se. Gravel is fine to coarse						2.30 - 2.50	B003		
(ALLUVIUM)					2.50	7.82			2.40	D004		
	EOH at 2.5	0m - Target depth ac	nieved		2.50	7.02						
												3
												4
									1			5
bservations / Re		tory hole backfilled wit	h arisings.								3rd floor, 54 Hagley Rd, Birmingham	
		tory nois backfilled Wil	n ananga.								Birmingnam B16 8PE 0121 516 5320	
											Project Numb	er
											784-B0269	

	Project:	A46 New	vark - North	ern Bypass			ation Deta			S	itatus	Pit Number
Ŧ	Location:			lottinghamshire	-	479436.0 10.19mA	50 North OD Depth	ing: 354 n: 1.20		FI	NA	L TP13
TETRA TECH	Client:	Highway	s England		Logger:		Type: y Great Brita		nal Crid			Shoot 1 of 1
			Hole Inforr	nation		ice ourve		Groundy		<u> </u>		Sheet 1 of 1 Scale: 1:10
	Pit Dim	0.30m	Orientation: Shoring: Stability: Plant:	° None Stable Hand Excavated	Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks	Checked By: NEB Approved By: JC Start Date: 11/06/2021 Finish Date: 11/06/2021
		Strata D	Description		Legend	Depth (m)	Reduced Level	Water	Backfill			Samples and Testing
	E GROUND						(mAOD)	Level (m)		Depth (m)	Ref	Tests / Results
		<u>, </u>				0.10	10.09					
Limestone: (MADE GROUND) Membrane. (MADE GROUND) Membrane. (MADE GROUND) MGR angular limestone. (MADE GROUND) MGR 0.30 001 0.30 002 0.30												
angular limeston	e. (MADE G	ROUND)	I SAND. GIA									P1D 0.20m, 0.0ppm
										0.50	D002	
sub angular lime	itly gravelly stone and c	silty fine to oncrete. (M	medium SAN ADE GROUNI	ID. Gravel is fine to medium D)		0.70	9.49					
Orangish brown (ALLUVIUM)	silty fine to	coarse SAN	D.			1.00	9.19			1.00 - 1.20	B001	1
	FOH	at 1 20m - Ta	arget depth ac	hieved	× × ,	1.20	8.99					
Merce 0.12 10.07 MGR 0.12 10.07 Vellowish brown gravelly fine to medium SAND. Gravel is medium to coarse sub 0.12 10.07 MGR 0.30 001 Dark brown slightly gravelly slity fine to medium SAND. Gravel is fine to medium 0.70 9.49 Dark brown slightly gravelly slity fine to medium SAND. Gravel is fine to medium 0.70 9.49 Orangish brown slity fine to coarse SAND. 1.00 9.19 1.00 - 1.30 1001												
						-				-		2
Dbservations / Re I. Groundwater not 2. Upon completion	observed.	xploratory ho	le backfilled wi	th arisings.		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	3rd floor, 54 Hagley Rd, Birmingham B16 8PE 0121 516 5320
												Project Number
												784-B026948

	Project: A46 Ne	wark - North	ern Bynass		Lo	cation Deta	ils		S	itatus		Pit Nur	mber
TŁ				Easting:	479335.		ng: 354						-
TETRA TECH		-	lottinghamshire	Level: Logger:	9.57mA0 TK	DD Depth Type:		Um		NAL	-	TP1	15
	Client: Highwa	ys England				y Great Brita		nal Grid				Sheet 1	of 1
		Hole Inform	nation				iroundv	vater			S	icale:	1:10
	Pit Dimensions	Orientation:		Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks		Checked By:	NEB
	0.30m	Shoring:	None									approved By:	JC
	0.30m	Stability: Plant:	Stable Hand Excavated									itart Date: inish Date:	26/04/2021 26/04/2021
		i idirei				Reduced	-					and Testing	
	Strata	Description		Legend	Depth (m)) Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
angular to sub-ro TOP Soft brown slight	tly gravelly clayey fine ounded of sandstone a	e to coarse SAI ind quartzite. (dy silty CLAY. ind quartzite. S	Gravel is fine to coarse Sand is fine to coarse.		0.40) Level	Water Level (m)	Backfill	Depth (m) 0.10 0.20 - 0.40 0.50 - 0.90	Ref ES1 B2 B3 B3		Tests / Results	
Observations / Re	marks										3rd floor,	·	
1. Groundwater not	observed.										54 Hagle Birmingh	y Rd, am	
2. Upon completion	completion exploratory h	ole backfilled wit	th arisings.								B16 8PE 0121 516 9		
										┝		Project Numb	er
												784-B0269	

Project: A46 Newark - Northern Bypass		Loca	ation Deta	ils		S	itatus	Pit Number
	-	479330.7		ng: 354				7040
TETRA TECH	Level: Logger:	10.27mA0 тк	DD Depth Type:	: 0.20 IP	0m		NAL	TP18
Client: Highways England			Great Brita		nal Grid			Sheet 1 of 1
Hole Information				iroundv				Scale: 1:10
Pit Dimensions Orientation: °	Strike	(m) F	Rose To (m)	Afte	er (mins)	R	emarks	Checked By: NEB
0.30m Shoring: None Stability: Stable								Approved By: JC Start Date: 18/06/2021
0.30m Plant: Hand Excavated								Finish Date: 18/06/2021
			Reduced					Samples and Testing
Strata Description	Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	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	10.07					
CONCRETE. (MADE GROUND) MGR	Λ	0.20	10.07					-
EOH at 0.20m - Terminated due to concrete obstruction								
								-
								-
								-
								1 -
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
								-
								2 -
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

	Project:	A46 New	vark - Nortl	nern Bypass	Easting	Loc 479412.7	ation Deta	ails ing: 354	710 46	S	tatus	Pit Number
	Location:	Newark-	on-Trent, I	Nottinghamshire	Level:	9.92mAO	D Depth	n: 1.20		FI	NA	L тр20
	Client:	Highway	s England		Logger: Ordnar		Type: Great Brita		nal Grid			Sheet 1 of 1
			Hole Infor			· · ·	(Groundv	vater	· 1		Scale: 1:10
	Pit Din	0.30m	Orientation: Shoring: Stability: Plant:	∘ None Stable Hand Excavated	Strike ((m) I	Rose To (m)	Afte	er (mins)	R	emarks	Checked By: NEB Approved By: JC Start Date: 11/06/2021 Finish Date: 11/06/2021
							Reduced	Water				Samples and Testing
			Description		Legend	Depth (m)	Level (mAOD)	Level (m)	Backfill	Depth (m)	Ref	Tests / Results
Grass over: Dark I TOP Dark brown claye				medium. (TOPSOIL)		0.25	9.67			0.20	ES001	PID 0.20m, 0.1ppm
(ALLUVIUM)										0.30	D001	
Medium strength i to medium. (ALLUVIUM)	reddish bro	own mottlec	l brown sligh	tly sandy CLAY. Sand is fine		0.60	9.32			0.70 0.70 0.70	D003 D3	PID 0.70m, 0.0ppm
										0.70	D3 ES002	HV 0.80m, (p)=45.0 kPa (r)=45.0 kPa
	EOH	at 1.20m - Ta	arget depth a	chieved		1.20	8.72					1 HV 1.20m, (p)=49.0 kPa (r)=49.0 kPa
Observations / Ren						-				-		2 3rd floor, 54 Hagley Rd,
 Groundwater not o Upon completion completion 	observed. completion e	xploratory hol	le backfilled w	ith arisings.								Birmingham B16 8PE 0121 516 5320
												Project Number
												784-B026948

	Project: A46	Newark - North	nern Bynass		Loc	ation Deta	ils		S	tatus		Pit Nu	mber
TŁ				Easting:	481106.2		ng: 355						
TETRA TECH			Nottinghamshire	Level: Logger:	10.54mA	OD Depth Type:)m		NAL	-	TP	25
	Client: High	ways England				y Great Brita		nal Grid				Sheet	1 of 1
		Hole Inform					Groundw				S	Scale:	1:10
	Pit Dimensions			Strike ((m)	Rose To (m)	Afte	er (mins)	Re	emarks		Checked By:	NEB
	0.	^{30m} Stability:	None Stable									Approved By: Start Date:	JC 29/04/2021
	0.30m	Plant:	Hand Excavated									inish Date:	29/04/2021
		te Deservation				Reduced	Water				Samples	and Testing	
		ata Description		Legend	Depth (m)	Level (mAOD)	Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
angular to sub-ro (TOPSOIL) TOP Orangish brown	tly gravelly silty fin bunded of sandstor	e to coarse SANI e and quartzite. ndy silty CLAY. G	D. Gravel is fine to coarse Silt is fine to coarse. ravel is fine to coarse angular ravel is fine to coarse angular		0.30	9.34	Level (m)		Depth (m)	Ref E51 B3 B3 E54		Tests / Results	
													2 -
Observations / Re 1. Groundwater not 2. Upon completion		ry hole backfilled wi	th arisings.								3rd floor 54 Hagle Birmingh B16 8PE 0121 516	ey Rd, Iam	
										F		Project Numl	ber
												784-B026	948

	Project:	A46 Ne	wark - North	ern Bypass	Facting		ation Deta		2072 OF	S	tatus		Pit N	umber	
	Location:	Newark	-on-Trent, N	lottinghamshire	Level:	480366.5 8.69mAO	D Depth			FI	NA	L	TP	27	
	Client:	Highwa	ys England		Logger: Ordnan		Type: Great Brita		nal Grid				Sheet	1 of 1	
			Hole Inform			. 1		Ground					Scale:	1:25	
	Pit Dir	mensions	Orientation: Shoring:	° None	Strike (2.50		Rose To (m) 2.00	Aft	er (mins)	R	emarks		Checked By: Approved By:	NEE JC	
		m	Stability:	Stable									Start Date:	07/06/2	
	m		Plant:	JCB 3CX			T		1				inish Date:	07/06/2	2021
		Strata	Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref	Samples	and Testing Tests / Result	5	Т
Grass over: Dark to medium sub ro				medium SAND. Gravel is fine						0.00	EW001				
TOP		,	,									PID 0.20m,	0.1ppm		-
				elly CLAY. Sand is fine to		0.30	8.39								
(MADE GROUND)	is fine to m)	iedium sud	angular quart	zite, concrete, sandstone.						0.50	D001	HV 0.50m, (p)=38.0 kPa (r)=38	8.0 kPa	-
MGR Plastic observed	between 0.40n	m and 0.60m b	gl.							0.50 - 0.70	B001				-
						0.75	7.94			0.70	ES002				-
Low strength firn (ALLUVIUM)	n reddish b	orown mottl	ed brown sligr	itly silty CLAY.											-
-					×_×_×					1.00	D002	HV 1.00m, (p)=54.0 kPa (r)=54	l.0 kPa	1 -
					×_×_×					1.00 1.10 - 1.20	ES003 B002				
Law also a she had a	:-l		21 41/			1.25	7.44								-
Low strength blu (ALLUVIUM)	ish grey sli	ghtly silty C	LAY.												-
					××					1.50	D003	HV 1.50m, (p)=39.0 kPa (r)=39	0.0 kPa	-
					××										-
					××										
					××	1.00	6.79								-
Low strength ver (ALLUVIUM)	y soft bluis	sh grey silty	CLAY.		××	1.90	6.79			2.00 - 2.20	B003	HV 2.00m, (p)=25.0 kPa (r)=25	i.0 kPa	2 -
(ALLOVION)					××					2.00 - 2.20	B3				-
					××										-
					××										-
					××					2.50	D004				
Reddish brown s	andy slight	tly gravelly	CLAY Gravel	is fine to coarse sub angular	××	2.60	6.09								-
to sub rounded q	quartzite. Sa	and is fine	to coarse.												-
(ALLUVIUM)										2.80 - 3.00 2.80 - 3.00	B004 B4				-
										3.00	D005				- 3 –
															-
	EOH	at 3.20m - 7	Target depth ac	hieved		3.20	5.49								-
															-
															-
															-
															-
															-
															4 -
															-
															-
															-
															-
															-
															-
															-
										-					5 -
Observations / Re	marks				1		1	1	1	L	I	3rd floor			
1. Upon completion		exploratory h	ole backfilled wit	th arisings.								54 Hagle Birmingh	nam		
												B16 8PE 0121 516			
													Project Nur	nber	
													784-B026	5948	
												I			

	Project: A46 New	vark - North	ern Bypass			ation Deta			S	tatus		Pit Nu	mber
TŁ	-			Easting:	480535.1		ng: 3560		ст			TP	20
TETRA TECH			lottinghamshire	Level: Logger:	13.04mA TK	OD Depth Type:	: 1.20 IP	m	LI	NA		IP.	50
	Client: Highway	s England				Great Brita		al Grid				Sheet	1 of 1
		Hole Inforr				G	iroundw	ater			S	cale:	1:10
	Pit Dimensions	Orientation:		Strike (m)	Rose To (m)	After	r (mins)	R	emarks		hecked By:	NEB
	0.30m	Shoring: Stability:	None Stable									pproved By: tart Date:	JC 11/06/2021
	0.30m	Plant:	Hand Excavated									inish Date:	11/06/2021
						Reduced					Samples	and Testing	
	Strata D	escription		Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
TOP Reddish brown sl (ALLUVIUM) Low strength red (MERCIA MUDST	brown silty fine to med lightly clayey fine to me ldish brown sandy CLAY ONE GROUP)	lium SAND. (edium SAND. ⁷ . Sand is fin	e to medium.		0.40 0.65 0.75				Depth (m)	ES001 D001 D002 B001	HV 0.70m, (p PID 0.80m, 0	.0ppm)=42.0 kPa (r)=42.0	
													-
													2
0.											10		۷ –
Observations / Re 1. Groundwater not 2. Upon completion		e backfilled wi	th arisings.								3rd floor, 54 Hagle Birmingh B16 8PE 0121 516 5	y Rd, am	
												Project Num	
												784-B026	948

	Project: A46 New	ark - Northern Bypass		Loc	cation Deta	nils		5	Status		Pit Nun	nber
Tŧ			Easting:	481346.9		ing: 3560					тра	-1
TETRA TECH		on-Trent, Nottinghamshire	Level: Logger:	15.28mA AH	OD Depth Type:		Im		NA		ТРЗ	L .
	Client: Highway	s England			y Great Brita		nal Grid				Sheet 1	of 1
		Hole Information				Groundw				5	Scale:	1:25
	Pit Dimensions	Orientation: °	Strike (m)	Rose To (m)	Afte	r (mins)	R	emarks		Checked By:	NEB
	m	Shoring: None Stability: Stable									Approved By: Start Date:	JC 09/06/2021
	m	Plant: JCB 3CX									inish Date:	09/06/2021
	Strata D	escription	Legend	Depth (m)	Reduced Level	Water	Backfill			Samples	and Testing	
			Legend	Bepar (iii)	(mAOD)	Level (m)		Depth (m)	Ref		Tests / Results	
coarse sub angu TOP	lar to sub rounded quar	e to medium SAND. Gravel is fine to tzite. (TOPSOIL) gravelly slightly silty SAND.		0.30	14.98			0.20	ES001	PID 0.20m, (0.0ppm	
(MERCIA MUDST												
Danus of reduisit	brown nine to coarse SAND no	n 0.50m to 0.50m.						0.50 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, (HV 1.01m, (p)=70.0 kPa (r)=70.0 p)=73.0 kPa (r)=73.0	kPa 1 - kPa
								1.20 - 1.40 1.20 - 1.40	B002 B2			
Modium strongth	stiff reddish brown silt			1.50	13.78			1.50	D003			-
(MERCIA MUDST		Y CLAY.	××									
			××									
	EOH at 2.00m - Ta	rget depth achieved	<u>××</u>	2.00	13.28					HV 2.00m, (p)=75.0 kPa (r)=75.0	kPa 2
												3-
												4 -
												-
												5 -
Observations / Re 1. Groundwater not 2. Upon completion		e backfilled with arisings.								3rd floor 54 Hagle Birmingh B16 8PE 0121 516	ey Rd, Iam 5320	
											Project Numb 784-B0269	

	Project:	A46 Net	wark - Nort	hern Bypass	Faction				000 70	5	Status	Pit Nur	nber
	Location:	Newark	on-Trent,	Nottinghamshire	Level:					F	[NA	L TP3	82
TETRA TECH	Location: Newark-on-T Client: Highways Eng Pit Dimensions Orier Pit Dimensions Orier m Stab m Plant Strata Descrip tly gravelly silty fine to med (TOPSOIL) elly fine to medium SAND. G lint ravelly slightly clayey slightly b angular strong mudstone.	ys England						nal Crid			Shoot 1	of 1	
			Hole Infor	mation		ice Suivey						Scale:	1:25
	Pit Din	nensions			Strike	(m) F	Rose To (m)	Afte	er (mins)	R	emarks	·	NEB
		m	_										
	m]	Plant:	JCB 3CX								Finish Date:	01/06/2021
	Location: Newark-on-T Client: Highways En Pit Dimensions Orie m Stat Pit Dimensions Orie m Stat Pit Dimensions Orie m Stat Van slightly gravelly silty fine to medium SAND. Orie van gravelly fine to medium SAND. Orie Minor van gravelly fine to medium SAND. Orie Minor prown gravelly slightly clayey slightly are sub angular strong mudstone. Minor Minor EOH at 2.70m - Target EOH at 2.70m - Target Minor	Description		Legend	Depth (m)	Reduced Level	Water	Backfill		1	Samples and Testing		
Line to be a construction of the construc	Tests / Results												
IOP										0.20	ES001		
										0.50	D001		
Dark brown grave	elly fine to	medium SA	ND. Gravel i	s fine to coarse sub angular		0.60	10.51			0.70	D005		
Description Location: Newsking Description Description Description FINAL TP92 International space of the internatinternational space of the international space of the													
Image: Note: Protect And Results's Note: (And Results's Note: (And Results's Status)) Processor Image: Note: <													
Press de la 27/26 : l'anticip 2602/26 : l													
	b angular st	trong muds	tone.		×								
Normalize Norma													
					×					1.50 1.50	D003 ES003		
					×_×_								
					×>					1.80	B002		
					×>	<							2
					×>	<							2
					×>	- <							
					×>	S							
					× 	<				2.50			
						4				8	D004		
	EOH	at 2.70m - T	arget depth a	chieved		2.70	8.41			×			
													3
													4
						-				-			5
bservations / Re	marks				I	<u> </u>		I	1		I	3rd floor,	
. Groundwater not o	observed.	vnloraton, h	ole backfilled y	with arisings								Birmingham	
	completion e	APIOI ALOFY NC	ne Dacknilled W	iui diisiliys.									
												Project Numb	er
												784-B0260	10

	Project: A46 New	wark - Northern Bypass		Loc	ation Deta	ils		5	Status		Pit Nu	mber
TŁ				480540.5		ng: 356		– –				
TETRA TECH		-on-Trent, Nottinghamshire	Level: Logger:	12.88mA(DD Depth: Type:		Jm		[NA	L	TPS	33
	Client: Highwa	ys England			Great Brita		nal Grid				Sheet :	1 of 1
		Hole Information				Groundw					Scale:	1:25
	Pit Dimensions	Orientation: °	Strike ((m) i	Rose To (m)	Afte	er (mins)	R	emarks		Checked By:	NEB
	m	Shoring: None Stability: Stable									Approved By: Start Date:	JC 07/06/2021
	m	Plant: JCB 3CX									Finish Date:	07/06/2021
	Strata	Description	Legend	Depth (m)	Reduced Level	Water	Backfill			Sample	es and Testing	
			Legend	Depar (III)	(mAOD)	Level (m)	buckini	Depth (m)	Ref		Tests / Results	
Gravel is fine to o TOP	coarse sub angular to a	gravelly CLAY. Sand is fine to medium. sub rounded quartzite. n brown slightly silty CLAY.		0.35	12.53			0.20	ES001			0 kPa
				1.00	11.88			0.50 0.50 0.50 - 0.70	D1 ES002 B001		, (p)=42.0 kPa (r)=42.0 , 0.1ppm , (p)=39.0 kPa (r)=39.0	
Medalish brown si mudstone. (MERCIA MUDST	TONE GROUP)	of fine to medium angular to sub angular		1.50	11.38			1.20 1.20 - 1.40	D002 B002			
	EOH at 1.50m - T	arget depth achieved		- 1.50	11.38							2 -
												3 -
Observations / Re 1. Groundwater not 2. Upon completion	observed.	ble backfilled with arisings.								3rd floo 54 Hag Birming B16 8P 0121 51	gley Rd, gham PE	5 - ber
											784-B0269	948

Description Location: Neural contracts: Location: FINAL TP34 Chent: Highways England Society Society and Neural Ne		Project:	A46 Nev	vark - Norti	hern Bypass	Easting:	Loca 481663.4	ation Deta		129.95	s	tatus	Pit Nur	nber
Clent: Highway: England Control 3 area (see) Model See (1 of 1) Image: Clent: Note (may intermediate) See (may intermediate)<	\Box	Location:	Newark-	-on-Trent, I	Nottinghamshire	Level:	17.06mA0	DD Depth	n: 1.20		FI	NAL	трз	34
Internation Construction Construction <thc< th=""><th>TETRA TECH</th><th>Client:</th><th>Highway</th><th>ys England</th><th></th><th></th><th></th><th></th><th></th><th>nal Grid</th><th></th><th></th><th>Sheet 1</th><th>of 1</th></thc<>	TETRA TECH	Client:	Highway	ys England						nal Grid			Sheet 1	of 1
Line Storage: Note: Nat: Image: Storage: Storage: Storage Image: Storage: Storag						Grandi	cc Survey				I			
Image: Single Status: Status: Name: Hard Excusible Name: Hard Excusible<		Pit Dim	nensions			Strike (m) F	Rose To (m)	Afte	er (mins)	R	emarks		
Image: Note: The set of series in the transmission of t			0.30m	-										JC 15/04/2021
Strate Description rank initial initia initial initial		0.30m			Hand Excavated								Finish Date:	15/04/2021
In the next alightly gravely slightly s			Strata D	Description		Legend	Depth (m)	Level	Water Level (m)	Backfill				
Be of an above and fine. Sit is fine to coase. (10950L) Torm and origins borow slightly gavely fine to coase. SMID. Gravel is fine to the fine to coase. SMID. Gravel is fine to coase. SMID. Gravel is fine to the fine to coase. SMID. Gravel is fine to coase. SMID. Gravel is fine to the fine to coase. SMID. Gravel is fine to coase. SMID. Gravel	Dark brown sligh	tlv gravellv	sliahtly silty	/ fine to coar	se SAND. Gravel is sub-			(mAOD)			Depth (m)	Ref	Tests / Results	
EOH at 1.20m - Target depth achieved I.20 I.30 I.20 I.30 I.20 I.30 I.20 I.20 I.20 I.20 I.20 I.20 I.20 I.2	angular to sub-ro TOP Brown and orang	punded of sa	andstone ar	nd flint. Silt is	s fine to coarse. (TOPSOIL) oarse SAND. Gravel is fine to		0.25	16.80			0.50	ES3		1
0121 516 5320 Project Number	. Groundwater not	emarks observed.					1.20	15.86			1.20		54 Hagley Rd, Birmingham	2
Project Number			ploratory ho	le backfilled w	ith arisings.							E	B16 8PE	
														er

	Project: A	46 Newa	ark - North	ern Bypass		Lo	cation Deta	ils		S	tatus		Pit Nu	mber
TE					Easting:	481523.		ing: 3561		- 1				
TETRA TECH			-	ottinghamshire	Level: Logger:	14.52m/ SC	AOD Depth Type:		m	FI	NAL	-	TPS	35
	Client: H	lighways	England				y Great Brita		al Grid				Sheet	1 of 1
			Hole Inform	nation			G	Groundw	ater			S	Scale:	1:10
	Pit Dimens		Orientation:		Strike ((m)	Rose To (m)	Afte	r (mins)	R	emarks		Checked By:	NEB
			Shoring:	None									Approved By:	JC
	0.30m		Stability: Plant:	Stable Hand Excavated									Start Date: Finish Date:	22/04/2021 22/04/2021
							Reduced						and Testing	
		Strata De	escription		Legend	Depth (m)	(mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
angular to sub-rc (TOPSOIL) TOP	gish brown grav gular to sub-ro	y fine to o Istone and	coarse SAND I quartzite. S			0.50	14.02 13.32	Level (m)	Backfill	Depth (m)	Ref ES1 B2 ES3 B4		Tests / Results	
												2 ∞-1 €		2 -
Observations / Re 1. Groundwater not 2. Upon completion	observed.	pratory hole	backfilled wit	h arisings.								3rd floor, 54 Hagle Birmingh B16 8PE 0121 516 5	ey Rd, Iam 5320	
													Project Numl	ber
													784-B026	948

	Project:	A46 New	/ark - Nort	hern Bypass	Easting	Loc 481502.4	ation Deta	nils ing: 356172.83	9	Status	Pit Numl	ber
æ	Location:	Newark-	on-Trent, I	Nottinghamshire	Level:	14.38mA	OD Depth	: 1.20m	F	[NA	L трзе	5
TETRA TECH	Client:	Highway	s England		Logger:		Type:					F 1
			Hole Infor	mation	Orunai	ice Survey		in National Grid Groundwater			Sheet 1 of Scale:	1:10
	Pit Dim	nensions	Orientation:		Strike ((m) I	Rose To (m)	After (mins)	F	Remarks	Checked By:	NEB
		0.30m	Shoring: Stability:	None Stable							Approved By: Start Date:	JC 22/04/2021
	0.30m]	Plant:	Hand Excavated								22/04/2021
		Strata D	escription		Legend	Depth (m)	Reduced Level	Water Level (m) Backfill			Samples and Testing	
Dark brown cligh	the grouply			D. Gravel is fine to coarse			(mAOD)		Depth (m)	Ref	Tests / Results	
angular to sub-ro (TOPSOIL) TOP	gish brown s	andstone an	elly fine to c	Silt is fine to coarse.		0.50	13.88		0.10	ES1 82 B3		1-
	EOH a	at 1.20m - Ta	arget depth a	chieved		1.20	13.18		1.20	D5		
Observations / Pe	•markc					-					3rd floor,	2 -
Observations / Re 1. Groundwater not 2. Upon completion	observed.	ploratory hol	e backfilled w	ith arisings.							54 Hagley Rd, Birmingham B16 8PE	
											0121 516 5320 Project Number	
											784-B02694	
											,	-

	Project: A46 Nev	wark - Nortl	nern Bypass		Loc	ation Deta	ils		S	tatus		Pit Nun	nber
TŁ				Easting:	481703.3		ng: 356						_
TETRA TECH	Location: Newark	-on-Trent, I	Nottinghamshire	Level:	17.57mA)m	+1	NA	-	ТРЗ	57
	Client: Highwa	ys England		Logger: Ordnar		Type: y Great Brita		nal Grid				Sheet 1	of 1
		Hole Infor	nation				Groundy					Scale:	1:10
	Pit Dimensions	Orientation:	0	Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks		Checked By:	NEB
		Shoring:	None									Approved By:	JC
	0.30m	Stability:	Stable									Start Date:	15/04/2021
	0.30m	Plant:	Hand Excavated									Finish Date:	15/04/2021
	Strata	Description		Legend	Depth (m)	Level	Water Level (m)	Backfill	Denth (m)	Ref	bumple		
angular to sub-ro TOP Brown gravelly si	tly gravelly silty fine to ounded of sandstone a lightly silty fine to coar i is fine to coarse angu	e coarse SANI nd flint. Silt is se SAND. Rai lar to sub-rou	D. Gravel is fine to coarse is fine to coarse. (TOPSOIL) re brick fragments. Silt is fine unded of sandstone and	Legend	Depth (m)	Reduced Level (mAOD) 17.37 16.37	Water Level (m)	Backfill	0.10 0.10 0.40 - 0.80	Ref D2 E51 B3 E54	Sample	s and Testing Tests / Results	
													-
													-
													-
													-
													-
													-
													-
													-
					1								2 -
Observations / Re 1. Groundwater not 2. Upon completion		le backfilled w	th arisings.								3rd floo 54 Hagl Birming B16 8PE 0121 516	ley Rd, ham 5 5320	
												Project Numb	
												784-B0269	48

	Project: A46 Nev	vark - North	iern Bypass		Loc	ation Deta	ils		S	tatus		Pit Nu	Imber
TŁ					481557.2		ng: 3562						
TETRA TECH		-	lottinghamshire	Level: Logger:	15.07mA	DD Depth Type:		m		NAL	-	TP	38
	Client: Highway	ys England				Great Brita		nal Grid				Sheet	1 of 1
		Hole Inform	nation				iroundw				5	Scale:	1:10
	Pit Dimensions	Orientation:		Strike ((m) I	Rose To (m)	Afte	r (mins)	R	emarks		Checked By:	NEB
	0.30m	Shoring:	None									Approved By:	JC
	0.30m	Stability: Plant:	Stable Hand Excavated									Start Date: Finish Date:	22/04/2021 22/04/2021
						Reduced						and Testing	
	Strata [Description		Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
angular to sub-rc (TOPSOIL) TOP Brown and orang	tly gravelly silty fine to ounded of sandstone a	relly fine to co	barse SAND. Gravel is fine to artzite.		0.50 1.20	Level (mAOD) 14.57 13.87	Level (m)	Backfill	Depth (m)	Ref ES1 B2 ES3 B4		Tests / Results	
													2 -
Observations / Re	marks										3rd floor	·	
1. Groundwater not		le backfilled wit	th arisings.								54 Hagle Birmingh B16 8PE 0121 516	nam 5320	
												Project Num	
												784-B026	948

	Project:	A46 New	vark - North	iern Bypass		Loca	ation Deta	ils		S	tatus		Pit Nu	Imber	
TŁ						481763.8		ng: 356							
TETRA TECH	Location:	Newark-	on-Trent, N	lottinghamshire	Level:	18.36mA0	•)m	FI	NA	_	TP	39	
	Client:	Highway	s England		Logger: Ordnan		Type: Great Brita		nal Grid				Sheet	1 of 1	
			Hole Inforr	nation	oranan			iroundv					Scale:	1:10	
	Pit Din	nensions	Orientation:	0	Strike (m) F	Rose To (m)	Afte	er (mins)	Re	emarks		Checked By:	NEB	
		0.30m	Shoring:	None									Approved By:	JC	
	0.30m		Stability:	Stable Hand Excavated									Start Date: Finish Date:	15/04/20	
	0.301	I	Plant:									Sample	es and Testing	15/04/20	
		Strata D	Description		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results		
Dark brown sligh	ntly gravelly	silty fine to	coarse SAN). Gravel is fine to coarse			. ,			-1 ()	-				
angular to sub-ro	ounded of sa	andstone an	nd flint. Silt is	fine to coarse. (TOPSOIL)											-
TOP										0.10 0.10	D2 ES1				-
Brown gravelly s	liahtly silty f	ine to coars	se SAND, Gra	vel is fine to coarse angular		0.15	18.21								
to sub-rounded of	of various lit	hologies. Si	It is fine to c	parse. (MADE GROUND)						0.20 - 0.40	B3				-
MGR															-
															-
															-
										0.40	ES4				-
			<u>,</u>			0.50	17.86								_
Light grey CONC MGR	-		-												-
Solid concrete of				reak through ete obstruction		0.60	17.76								-
	2011 at 0.001														
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															2 -
Observations / Re	emarks											3rd floo	or,		
1. Groundwater not	observed.	undamente de la										Birming	lley Rd, Jham		
2. Upon completion	completion ex	kpioratory hol	e dackfilled wi	ui dhsings.								B16 8P 0121 51			
													Project Num	iber	
													784-B026	948	

	Project:	46 New	ark - North	ern Bypass		Loc	cation Deta	ils		S	tatus		Pit Nu	mber
TE					Easting:	481628.2		ng: 356						
TETRA TECH	Location: I	Newark-o	on-Trent, N	lottinghamshire	Level: Logger:	17.48mA	OD Depth Type:		m		NA	-	TP	40
	Client: I	Highways	s England				y Great Brita		nal Grid				Sheet	1 of 1
			Hole Inform	nation			,	Groundw					Scale:	1:10
	Pit Dimen	nsions	Orientation:	0	Strike ((m)	Rose To (m)	Afte	r (mins)	R	emarks		Checked By:	NEB
			Shoring:	None									Approved By:	JC
			Stability:	Stable									Start Date:	22/04/2021
	0.30m	_	Plant:	Hand Excavated								Canada	Finish Date:	22/04/2021
		Strata De	escription		Legend	Depth (m)	Reduced Level	Water Level (m)	Backfill			Sample	es and Testing	
Dark brown click		tu fina ta d	CANE	0. Gravel is fine to coarse			(mAOD)	. ,	<i></i>	Depth (m)	Ref		Tests / Results	
angular to sub-ro	ounded of san	dstone and	d quartzite.	Silt is fine to coarse.										-
(TOPSOIL) TOP										0.10	ES1			
										0.20 - 0.50	B2			_
										0.20 - 0.30	02			
														-
														-
														-
														-
														-
Brown slightly gr	ravelly fine to o	coarse SAN	ND. Gravel is	s fine to coarse angular to		0.50	16.98							-
sub-rounded of s (ALLUVIUM)	sandstone and	quartzite.				- 9 -								-
(ALLOVION)						9				0.60 - 0.90	B3			
														-
Orangish brown	from 0.7m bal					2								
						2								-
						2								-
														-
						8								
						9								
						8				1.00	ES4			1 -
						8				1.00	231			1-
						8								
						2								-
														-
	EOH at	1.20m - Tai	rget depth ac	hieved	<u> </u>	1.20	16.28			1.20	D5			-
														-
														-
														-
														-
														-
														-
														-
														-
														-
														-
														-
														-
														-
						-				-				2 -
Observations / Do	marks											3rd floo	or.	
Observations / Re 1. Groundwater not												54 Hag Birming	ley Rd,	
2. Upon completion		oratory hole	e backfilled wi	th arisings.								B16 8P	Ē	
											ŀ		Project Num	her
													784-B026	740

	Project: A46 New	/ark - North	ern Bypass		Lo	cation Deta	ils		S	itatus		Pit Nur	nber
TŁ				Easting:	481765.		ng: 356						
TETRA TECH			lottinghamshire	Level: Logger:	18.34m/	AOD Depth Type:		Jm		NAL	-	TP4	ŀ⊥
	Client: Highway	s England				y Great Brita		nal Grid				Sheet 1	of 1
		Hole Inform	nation			Ģ	Froundv				Scale		1:10
	Pit Dimensions	Orientation:		Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks		cked By:	NEB
	0.30m	Shoring:	None									roved By:	JC
	0.30m	Stability: Plant:	Stable Hand Excavated									t Date: h Date:	22/04/2021 22/04/2021
						Reduced					Samples and		, , , , ,
	Strata D	escription		Legend	Depth (m)) Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref	Те	ests / Results	
angular to sub-ro (TOPSOIL) TOP Orangish brown	tly gravelly silty fine to ounded of sandstone ar	coarse SANE	. Gravel is fine to coarse		0.50	(mAOD) 17.84 17.14			Depth (m) 0.10 0.20 - 0.40 0.60 - 0.90	Ref ES1 B2 B3 E54	T	ests / Results	
]
													2 -
											2vd 4-		Z =
Observations / Re 1. Groundwater not 2. Upon completion		e backfilled wi	th arisings.								3rd floor, 54 Hagley R Birmingham B16 8PE 0121 516 5320		
												Project Numb	
											78	84-B0269	148

	Project: A46 Ne	wark - Nortl	orn Bynass		Loc	cation Deta	ils		S	itatus		Pit Nur	mber
TŁ				Easting:	481697.		ng: 356						
TETRA TECH	Location: Newar	k-on-Trent, I	Nottinghamshire	Level:	18.37mA			Om	FI	NAL	-	TP4	12
	Client: Highw	ays England		Logger:		Type: y Great Brita		nal Grid				Sheet 1	l of 1
		Hole Infor	mation	Oruna	ice Suive		Groundy				Sca		1:10
	Pit Dimensions	Orientation:		Strike	(m)	Rose To (m)	-	er (mins)	R	emarks	Che	ecked By:	NEB
		Shoring:	None								Ар	proved By:	JC
	0.30r	Stability.	Stable									rt Date:	22/04/2021
	0.30m	Plant:	Hand Excavated									ish Date:	22/04/2021
	Strata	Description		Legend	Depth (m)	Reduced Level	Water	Backfill					
angular to sub-rc (TOPSOIL) TOP	tly gravelly silty fine bunded of sandstone avelly fine to coarse s quartzite.	SAND. Gravel i	s fine to coarse angular to		0.60	Reduced Level (mAOD) 17.77 17.17	Water Level (m)	Backfill	Depth (m)	Ref ES1 B2 B3 B4	Samples ar	nd Testing Tests / Results	
					-								2 -
Observations / Re	marks			1	I		l		1		3rd floor,		
1. Groundwater not		ole backfilled w	ith arisings.								54 Hagley Birminghar B16 8PE 0121 516 53	n 20	
												Project Numb	ber
											7	84-B0269	948

	Project:	A46 Nev	vark - Nort	hern Bypass	Easting:	Loca 481916.5	ation Deta 7 North	ails ing: 356	398.85	S	itatus	Pit Numl	ber
TETRA TECH	Location:	Newark-	on-Trent,	Nottinghamshire	Level:	18.85mA0	DD Depth	n: 1.20		FI	NA	L TP43	3
TETRA TECH	Client:	Highway	ys England		Logger: Ordnar		Type: Great Brita		nal Grid			Sheet 1 d	of 1
			Hole Infor	mation	orana			Groundv				Scale:	1:10
	Pit Din	nensions	Orientation:		Strike ((m) F	Rose To (m)	Afte	er (mins)	R	emarks	'	NEB
		0.30m	Shoring: Stability:	None Stable								Approved By: Start Date:	JC 15/04/2021
	0.30n] n	Plant:	Hand Excavated									15/04/2021
		Strata D	Description		Legend	Depth (m)	Reduced Level	Water	Backfill			Samples and Testing	
						Depar (III)	(mAOD)	Level (m)		Depth (m)	Ref	Tests / Results	
angular to sub-ro	ounded of s	silty fine to andstone. S	coarse SAN ilt is fine to	D. Gravel is fine to coarse coarse. (TOPSOIL)						0.10	D2		
										0.10	ES1		
cobble content. C	Gravel is fin fine to coa	e to coarse	angular to s	fine to coarse SAND with low ub-rounded of various r to sub-angular of brick and		0.20	18.65			0.20 - 0.50	B3		
										0.60	ES4		
										0.80 - 1.20	B5		
Dark brown from	n 1.0m bgl												1
	FOH	at 1 20m - T	arget depth a	chieved		1.20	17.65						
	LOIT	at 1.2011 - 18	aigerueptira	chieved									
						-				-			2
Dbservations / Re . Groundwater not . Upon completion	observed.	xploratory ho	le backfilled w	ith arisings.			I	I	J	1		3rd floor, 54 Hagley Rd, Birmingham B16 8PE	
												0121 516 5320	
												Project Number	
												784-B02694	łð

	Project:	446 New	/ark - North	ern Bypass		Loc	ation Deta	ils		S	tatus		Pit Nu	mber
TŁ					Easting:	481869.4		ng: 356					тр	
TETRA TECH	Location:			lottinghamshire	Level: Logger:	18.55mA	OD Depth Type:		Jm	FI	NAL	-	TP	44
	Client:	Highway	s England				Great Brita		nal Grid				Sheet	1 of 1
			Hole Inform					Groundw					Scale:	1:10
	Pit Dim	ensions	Orientation:		Strike ((m) I	Rose To (m)	Afte	er (mins)	R	emarks		Checked By:	NEB
		0.30m	Shoring: Stability:	None Stable									Approved By: Start Date:	JC 15/04/2021
	0.30m]	Plant:	Hand Excavated									Finish Date:	15/04/2021
		Strata D	accription		Logond	Depth (m)	Reduced Level	Water	Backfill			Sample	es and Testing	
			escription		Legend	Depth (III)	(mAOD)	Level (m)	Dackilli	Depth (m)	Ref		Tests / Results	
Dark brown sligh	ntly gravelly s	silty fine to	coarse SAND	. Gravel is fine to coarse fine to coarse. (TOPSOIL)										
TOP										0.10	ES1			
										0.10	E51			
										0.20 - 0.60	B2			
										0.20 - 0.00	52			
														-
						0.60	17.95							
Orangish brown angular to sub-ro	slightly grave ounded of sa	elly fine to o Indstone an	coarse SAND Id quartzite.	. Gravel is fine to coarse			1,150							
(ALLUVIUM)										0.70	ES3			
										0.80 - 1.20	B4			
						•								
						•								
						•								1 -
						-								
	EOH a	at 1.20m - Ta	arget depth ac	hieved		1.20	17.35							
														-
														-
														-
						1								2 -
Observations / Re 1. Groundwater not												3rd floo 54 Hag	ley Rd,	
2. Upon completion		ploratory hole	e backfilled wit	th arisings.								Birming B16 8P	Ē	
											╞	0121 5lt	Project Num	ber
													784-B026	
1														

	Project: A46 New	ark - Northern Bypass		Lo	cation Deta	ils		S	Status	Pit Nu	mber
TŁ			Easting:	482083.		ng: 3565				TD	46
TETRA TECH		on-Trent, Nottinghamshire	Level: Logger:	18.72m/ SC	AOD Depth Type:		m		INAL	TP4	+5
	Client: Highway	rs England			y Great Brita		al Grid			Sheet	1 of 1
		Hole Information			G	iroundw	ater			Scale:	1:10
	Pit Dimensions	Orientation: °	Strike	(m)	Rose To (m)	Afte	r (mins)	R	emarks	Checked By:	NEB
	0.30m	Shoring:								Approved By:	JC
	0.30m	Stability: Stable Plant: Hand Excavated								Start Date: Finish Date:	15/04/2021 15/04/2021
					Reduced				S	Samples and Testing	
	Strata D	escription	Legend	Depth (m)) Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref	Tests / Results	
Sub-angular to su (TOPSOIL) TOP Orangish brown angular to sub-ro (ALLUVIUM)	tly gravelly silty fine to ub-rounded of sandston slightly gravelly fine to bunded of sandstone an EOH at 1.20m - Ta	coarse SAND. Gravel is fine to coarse e and flint. Silt is fine to coarse.		0.90	(mAOD) 17.82 17.52			Depth (m) 0.10 0.20 0.30 - 0.70	ES4 B5	Tests / Results	
Observations / Re	marks			•				•	3	rd floor, 4 Hagley Rd,	
 Groundwater not Upon completion 	observed. completion exploratory hol	e backfilled with arisings.							B	44 Hagley Rd, Birmingham 816 8PE 121 516 5320	
										Project Num	ber
										784-B026	948

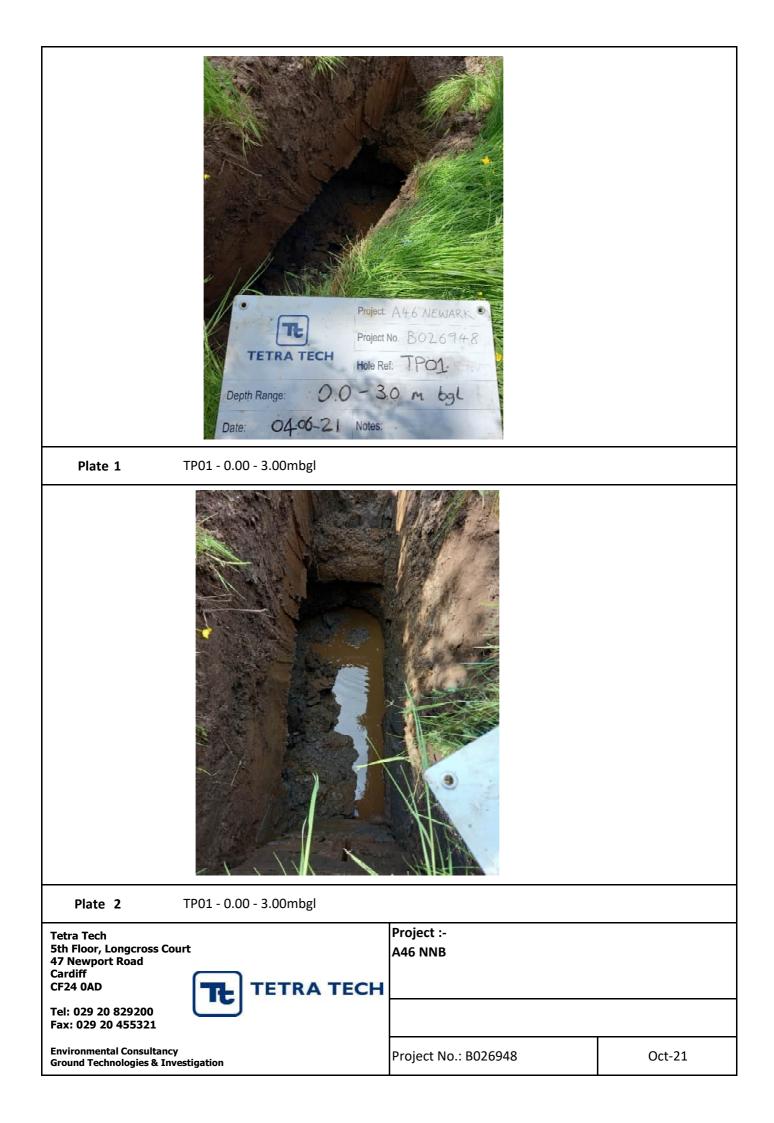
Consider and the second organized and the	Project: A46 Newark - Northern Bypass			Location Details					Status			Pit Nur	mber		
Turbule for the information of the information						-									
		Location: N	lewark-o	on-Trent, N	lottinghamshire					0m	FI	NA	L	TP4	1 6
Hole (From 2000) Hole (From 2000)<	TETRATECH	Client: H	lighways	s England						nal Crid				Shoot 1	l of 1
Number of the second of a relation is first to come shifts or provide of grandenees of the second of a relation of the second of a relation of the second of the secon				Hole Inform	nation	orunar	ice Survey								
		Pit Dimens	sions			Strike (m)				R	emarks		4	
Interm Part Hore is the iso Example Vert														4	
Strate bescription under product of dual to the to coasses SMD. Gravel is fine to coasse. (MCPCDL). Mathematical of coadditione and quantities. Sit is fine to coasse. (MCPCDL). Mathematical of coadditione and quantities. Sit is fine to coasse. (MCPCDL). Base is a set of the to coasse. (MCPCDL). Base is a set of the to coasses SMD. Gravel is fine to coasse. (MCPCDL). Base is a set of the to coasse. (MCPCDL). Base is a set of t			0.30m	Stability:	Stable									Start Date:	15/04/2021
Strato Description read read <thread< th=""> read read<td></td><td>0.30m</td><td></td><td>Plant:</td><td>Hand Excavated</td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>15/04/2021</td></thread<>		0.30m		Plant:	Hand Excavated			1		1					15/04/2021
Development highly gravely the to cause SMD. Gravel is fine to cause T(PSED). Consider and example. Sit is fine to cause and a set of the to cause SMD. Gravel is fine to cause and a set of the to cause SMD. Gravel is fine to cause (ALL/VLM). Consider and example. Sit is fine to cause (ALL/VLM). Consider and example. Site is fine to cause (ALL/VLM). Consider and examp			Strata De	escription		Legend	Denth (m)	Reduced	Water	Backfill			Sample	es and Testing	
angular to sub-concled of sendeline and quarkine. Sill is fine to coarse. TO TO TO TO TO TO TO TO TO TO								(mAOD)	Level (m)		Depth (m)	Ref		Tests / Results	
Orangish traven slightly gravetly fine to coarse: 0.00 17.13 10.0 6.00 17.13 10.0 6.00 10.13 10.0 <td>Dark brown sligh</td> <td>tly gravelly silt</td> <td>y fine to c</td> <td>coarse SAND</td> <td>). Gravel is fine to coarse</td> <td></td>	Dark brown sligh	tly gravelly silt	y fine to c	coarse SAND). Gravel is fine to coarse										
Orangeth brown sightly gravely fine to cause SMD. Gravel is fine to cause angular to sub-rounded of quartize. (ALLIVIUM) ECH at 128n - Target sight achieved Conservations / Menands Conservations / Menands Conservation	(TOPSOIL)			a qualtzite.											
Orangide bown slightly gravelly fine to coarse SAND. Gravel is fine to coarse (ALUYOUP) EOH at 1 20m - Target copth achieved 1.00 1.00 17.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	ТОР										0.10	ES1			
Orangide bown slightly gravelly fine to coarse SAND. Gravel is fine to coarse (ALUYOUP) EOH at 1 20m - Target copth achieved 1.00 1.00 17.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve											0.20 - 0.60	B2			
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve							1								
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															-
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															-
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															-
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															-
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															-
Changed provide signary gravely the to coarse sAND. Gravel is the to coarse angular to sub-rounded of quartzite. (ALLWIUM) EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieve															
CALLMUMUM) EOH at 1 20m - Target depth achieved	Orangish brown	slightly gravelly	y fine to c	oarse SAND	. Gravel is fine to coarse		0.80	17.13							
EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieved Conservations / Remarks Conservations / Rema	angular to sub-ro	ounded of quar	tzite.												
EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieved I.20 I.573 I.20 I.57 I.57 I.57 I.57 I.57 I.57 I.57 I.57	(************										0.90	ES3			-
EOH at 1.20m - Target depth achieved EOH at 1.20m - Target depth achieved I.20 I.573 I.20 I.57 I.57 I.57 I.57 I.57 I.57 I.57 I.57															-
Descrutions / Remarks Consider the sploratory hole backfilled with arisings.											1.00 - 1.20	B4			1 -
Descrutions / Remarks Consider the sploratory hole backfilled with arisings.															-
Descrutions / Remarks Observations / Re															
Descrutions / Remarks Observations / Re															
Image: sign of the sector o		EOH at 1	20m Tor	raot donth ac	hiovod		1.20	16.73							
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number		LOHALI	.2011 - 14	get deptil ac	ineved										
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion exploratory hole backfilled with arisings. 8 Hagley Rd, Birmingham B16 BPE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															_
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
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Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
Observations / Remarks 3rd floor, 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. 816 8PE 0121 516 5320 Project Number															
2. Upon completion exploratory hole backfilled with arisings. 54 Hagley Rd, Birmingham BI6 8PE 0121 516 5320 Project Number Project Number															2 -
1. Groundwater not observed. 54 Hagley Rd, Birmingham 2. Upon completion completion exploratory hole backfilled with arisings. Birmingham 0121 516 5320 0121 516 5320 Project Number	Observations / Re	marks				1			1	1			3rd flo	or,	
0121 516 5320 Project Number	1. Groundwater not	observed.											Birming	gham	
	2. Upon completion	completion explo	ratory hole	backfilled wit	th arisings.										
														Project Numb	ber

	Project:	446 New	vark - North	iern Bypass	Location Details				Status			Pit Nu	mber	
TŁ					Easting:	482402.6		ng: 3567					тр	47
TETRA TECH	Location:		-	lottinghamshire	Level: Logger:	18.74mA	DD Depth Type:	: 1.20 IP	m	FI	NAL	-	TP4	47
	Client:	Highway	s England				Great Brita		nal Grid				Sheet	1 of 1
			Hole Inform					iroundw				S	Scale:	1:10
	Pit Din	nensions	Orientation:		Strike ((m)	Rose To (m)	Afte	r (mins)	R	emarks		Checked By:	NEB
		0.30m	Shoring: Stability:	None Stable									Approved By: Start Date:	JC 14/04/2021
	0.30m] 1	Plant:	Hand Excavated									inish Date:	14/04/2021
		Strata D	occription		Legend	Depth (m)	Reduced Level	Water	Backfill		т т	Samples	and Testing	
			Description		Legend	Deput (iii)	(mAOD)	Level (m)	DdCKIIII	Depth (m)	Ref		Tests / Results	
Dark brown sligh	ntly gravelly	silty fine to	coarse SAND	D. Gravel is fine to coarse fine to coarse fine to coarse. (TOPSOIL)										
TOP										0.10	ES1			
										0.10	ESI			
										0.20 - 0.50	B2			
										0.20 - 0.30	02			
														-
						0.60	18.14							
Orangish brown angular to sub-ro	slightly silty ounded of q	gravelly fin uartzite.	e to coarse S	SAND. Gravel is fine to coarse			10.11							
(ALLUVIUM)						•								
										0.80	ES3			
						•								
										0.90 - 1.20	B4			
						•		~						1 -
						-								
								2						-
	EOH	at 1.20m - Ta	arget depth ac	hieved		1.20	17.54	× 20						
														-
														-
														-
						1		-						2 -
Observations / Re												3rd floor, 54 Hagle	y Rd,	
 Groundwater not Upon completion 		xploratory hol	le backfilled wi	th arisings.								Birmingh B16 8PE		
											┝	0121 516 5		har
													Project Numl	
													784-B026	740

	Project:	446 New	vark - North	ern Bypass	Location Details					Status			Pit Nu	mber
TŁ					Easting:	482196.3		ing: 356						
TETRA TECH	Location:			lottinghamshire	Level: Logger:	18.76mA	OD Depth. Type:		Um		NAL	-	TP4	48
	Client:	Highway	s England				/ Great Brita		nal Grid				Sheet :	1 of 1
			Hole Inforn	nation			G	Groundv	vater			:	Scale:	1:10
	Pit Din	nensions	Orientation:		Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks		Checked By:	NEB
		0.30m	Shoring:	None									Approved By:	JC
	0.30m		Stability: Plant:	Stable Hand Excavated									Start Date: Finish Date:	23/04/2021 23/04/2021
							Reduced						s and Testing	
		Strata D	Description		Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
Dark brown sligh rounded of sand: TOP	tly gravelly stone and q	silty SAND. uartzite. (TC	Gravel is fine DPSOIL)	e to coarse angular to sub-						0.10 0.20 - 0.40	ES1 B2			
Orangish brown sub-angular of q (ALLUVIUM)	gravelly fine uartzite.	e to coarse S	SAND. Gravel	is fine to coarse angular to		0.40	18.36			0.60	ES3			-
										0.80 - 1.20	В4			
														1 -
						1.20	17.50							
	EOH	at 1.20m - Ta	arget depth ac	hieved		1.20	17.56			1				
														– ר
											$\square \downarrow$	2.10		2 -
Observations / Re 1. Groundwater not 2. Upon completion	observed.	xploratory hol	le backfilled wit	th arisings.								3rd floor 54 Hagle Birming B16 8PE 0121 516	ey Rd, ham	
											ľ		Project Num	ber
													784-B026	948

Project: A46 Newark - Northern Bypass	Location Details			Status		Pit Nu	mber		
	Easting:	481671.		ing: 3562					
TETRA TECH	Level: Logger:	17.23m/ SC	AOD Depth Type:		m		NAL	TP	49
Client: Highways England			y Great Brita		al Grid			Sheet	1 of 1
Hole Information				Groundwa	ater			Scale:	1:10
Pit Dimensions Orientation: °	Strike	(m)	Rose To (m)	After	(mins)	R	emarks	Checked By:	NEB
0.30m Shoring: None								Approved By:	JC
0.30m Stability: Stable								Start Date: Finish Date:	22/04/2021 22/04/2021
			Reduced				5	Samples and Testing	
Strata Description	Legend	Depth (m)	(mAOD)	Water Level (m)	Backfill	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)									I
ТОР						0.10	ES1		
						0.20 - 0.40	B2		
Brown clightly gravelly clightly city find to secure CAND. Crevel is first to secure		0.50	16.73						
Brown slightly gravelly slightly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)									
						0.70	ES3		
Orangish brown from 0.8m bgl						0.80 - 1.20	B4		
		•							
									1 -
EOH at 1.20m - Target depth achieved		1.20	16.03						
									-
									•
									2 -
Observations / Remarks 1. Groundwater not observed.							5	Brd floor, 54 Hagley Rd, Birmingham	
2. Upon completion completion exploratory hole backfilled with arisings.								316 8PE 0121 516 5320	
								Project Num 784-B026	

	Project:	A46 New	ark - North	ern Bypass	Location Details				Status			Pit Nu	mber	
TŁ					Easting:	481904.0		ng: 356		-				-0
TETRA TECH				lottinghamshire	Level: Logger:	18.48mA	OD Depth Type:)m		NAL	-	TP	50
	Client:	Highway	s England				Great Brita		nal Grid				Sheet :	1 of 1
			Hole Inforr	nation				Froundw	vater			So	cale:	1:10
	Pit Dime	ensions	Orientation:		Strike ((m)	Rose To (m)	Afte	er (mins)	R	emarks		hecked By:	NEB
		0.30m	Shoring:	None									pproved By:	JC
	0.30m		Stability: Plant:	Stable Hand Excavated									tart Date: nish Date:	15/04/2021 15/04/2021
			, iuner				Reduced						and Testing	
		Strata D	escription		Legend	Depth (m)	Level (mAOD)	Water Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
angular to sub-ro TOP	slightly grave bunded of sar	Illy fine to and	coarse SANE d flint. Silt is	b. Gravel is fine to coarse fine to coarse. (TOPSOIL) b. Gravel is fine to coarse hieved		0.70	17.28	Level (m)		Depth (m)	ES1 B2 ES3 B4		Tests / Results	
														2 -
0haan 11 (-												2rd fl		2-
Observations / Re 1. Groundwater not 2. Upon completion	observed.	oloratory hole	e backfilled wi	th arisings.								3rd floor, 54 Hagley Birmingha B16 8PE 0121 516 5	/ Rd, am	
													Project Num	ber
												7	784-B0269	948





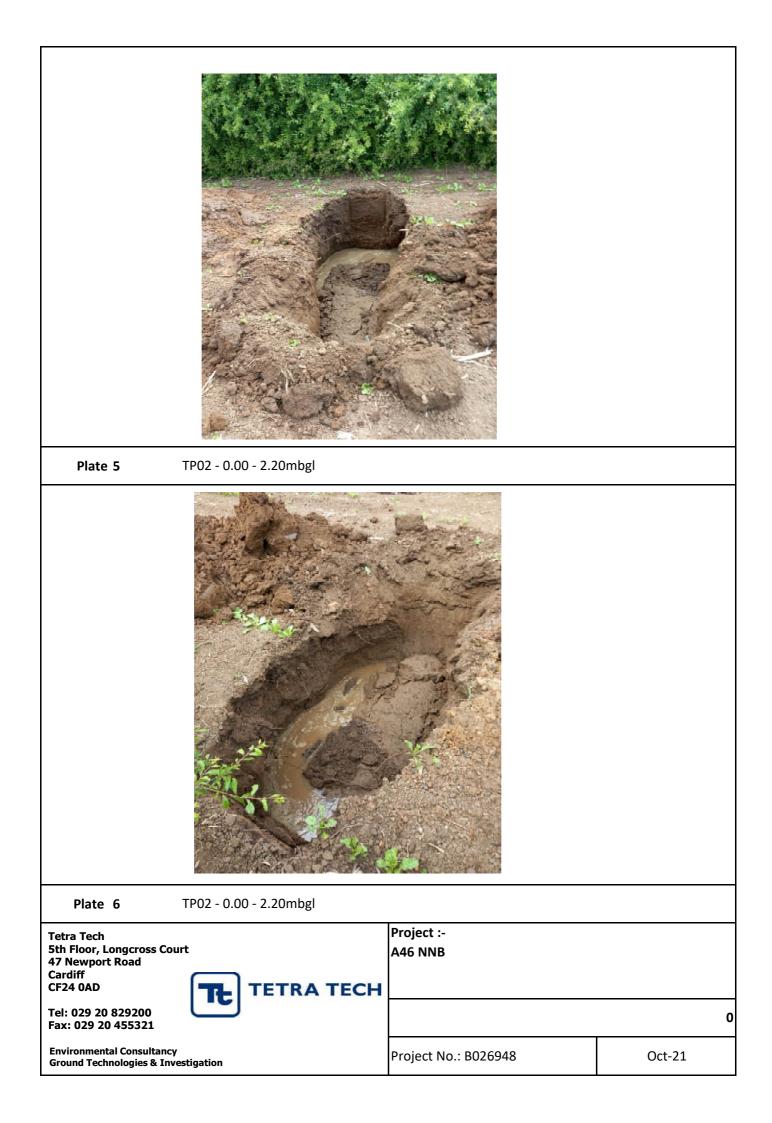
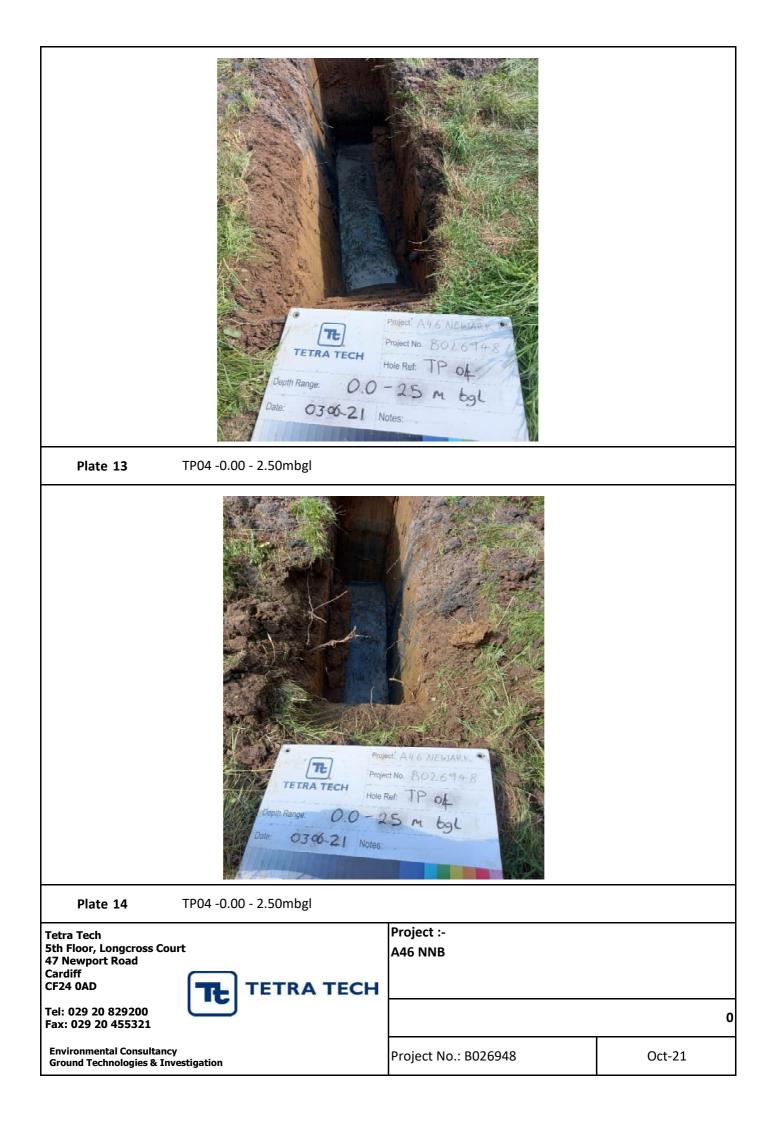


Plate 7 TP02 - 0.00 -	2.20mbgl - SPOIL		
Plate 8 BLANK		Decient	
Tel: 029 20 829200		Project :- A46 NNB	0
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation		Project No.: B026948	Oct-21







	TETRA TECH Hole Depth Range: 0.0 - Date: 03:06-21 Not	A A CARBANA ANA ESOZETAR Re: TP of 25 m 53	
Plate 15	TP04 -0.00 - 2.50mbgl - SPOIL		
Plate 16	BLANK		
Tetra Tech 5th Floor, Longcross Cou	ırt	Project :- A46 NNB	
47 Newport Road Cardiff CF24 0AD	<u> </u>		
Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH		0
Environmental Consultance Ground Technologies & Inv	y vestigation	Project No.: B026948	Oct-21

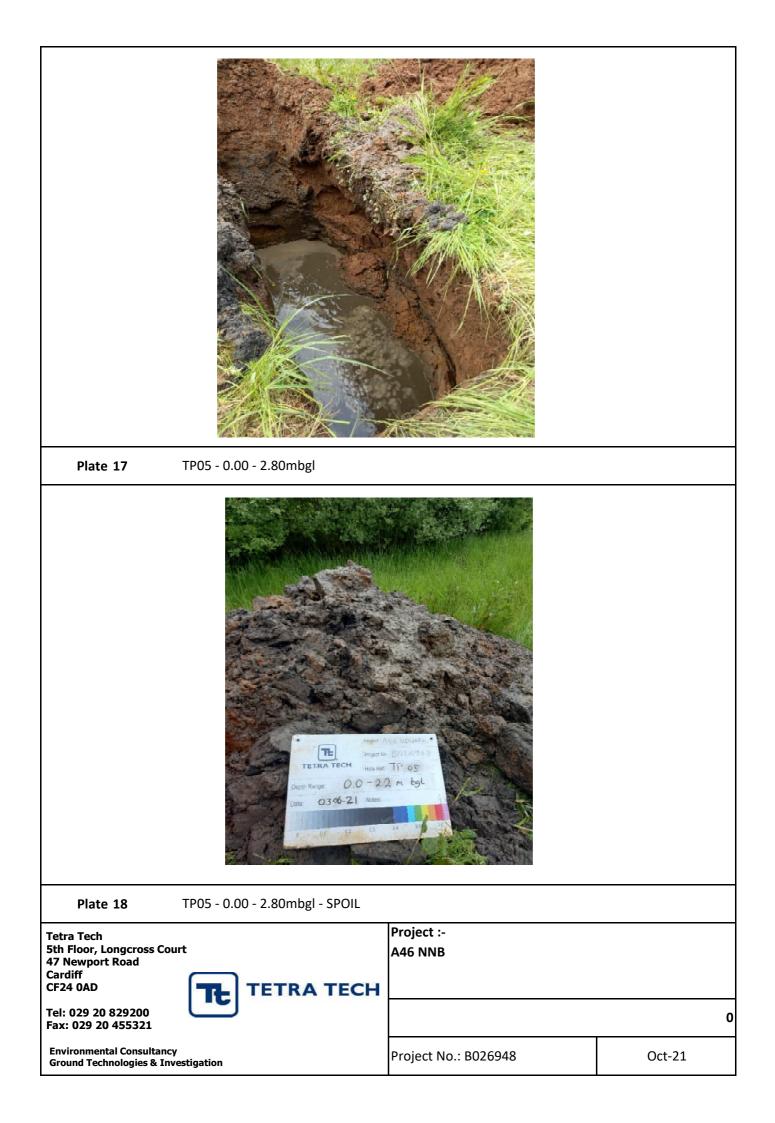
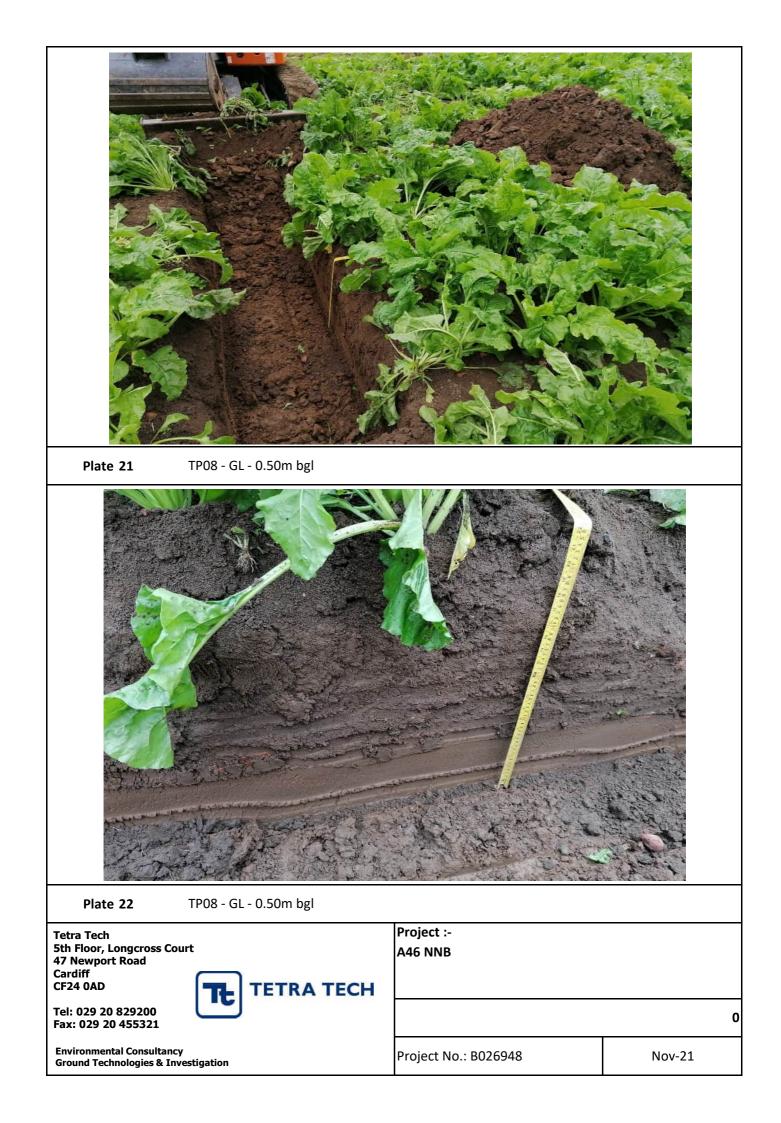
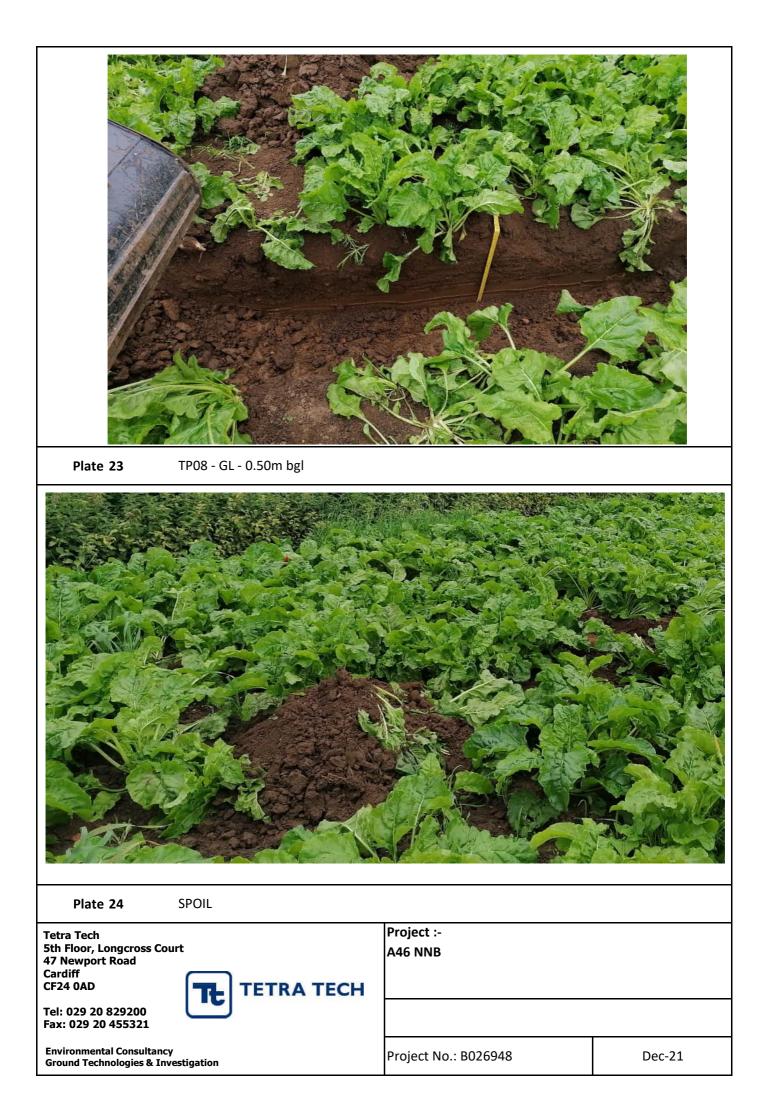
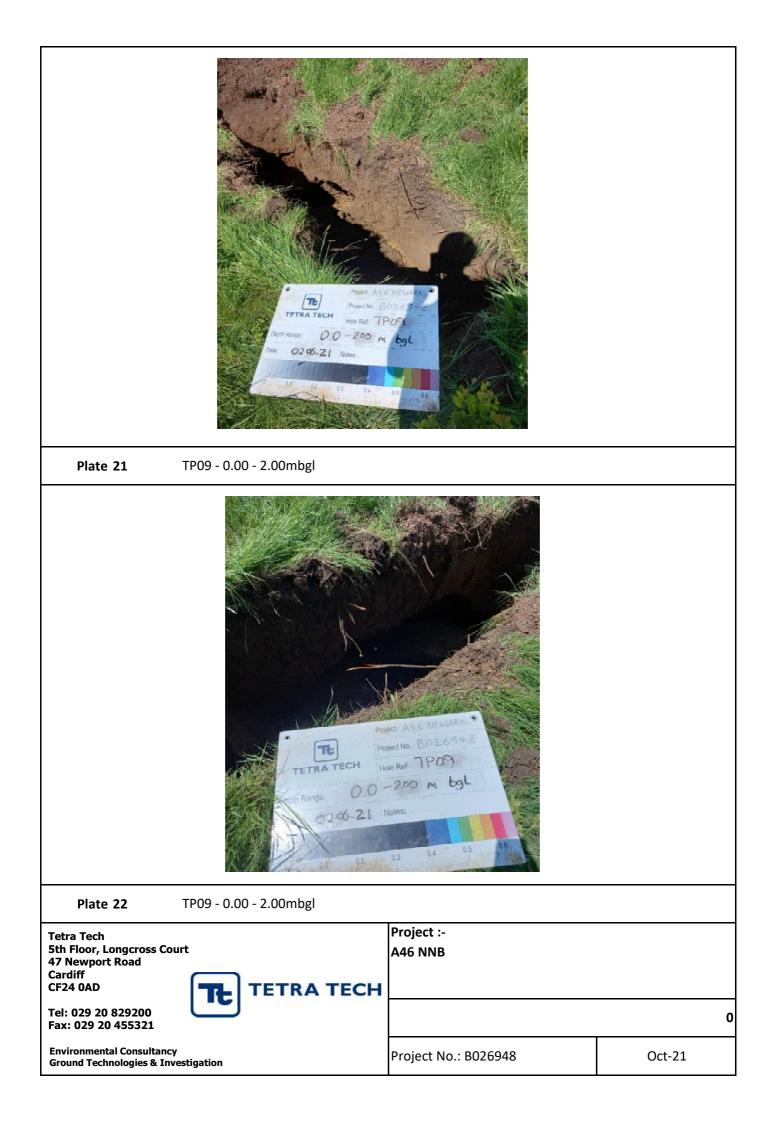


Plate 19 TP05 - REINSTATEMENT		
Plate 20 BLANK	Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road	Project :- A46 NNB	
Cardiff CF24 0AD	ЕСН	
Tel: 029 20 829200 Fax: 029 20 455321		0
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21







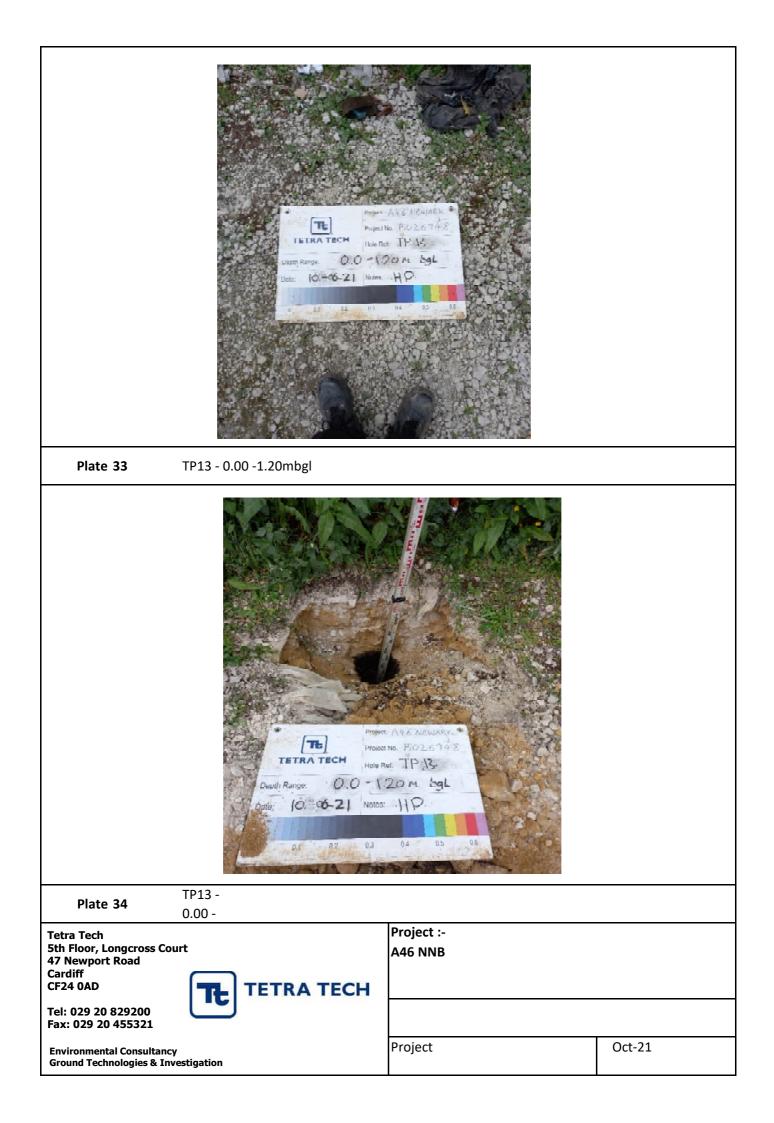


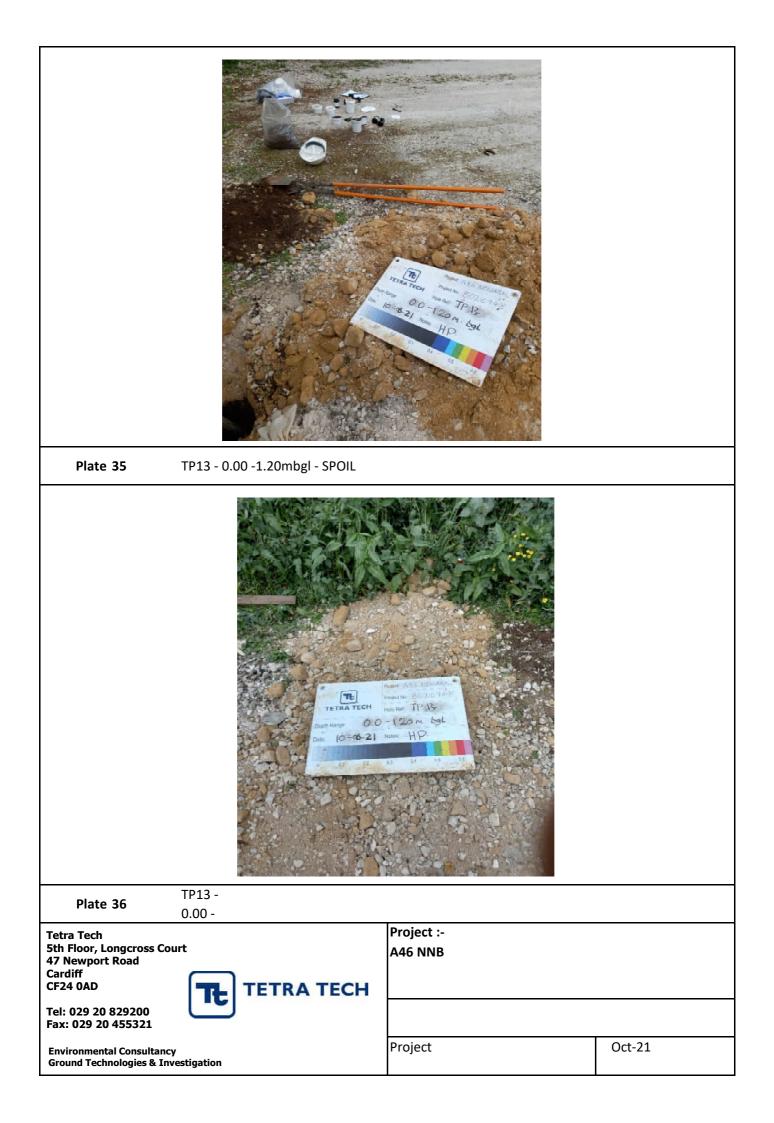
	A DESCRIPTION OF A DESC		
Plate 25	TP10 - 0.00 - 2.70mbgl		
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Dista 76	0.00 -		
Tetra Tech 5th Floor, Longcross Cour 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB 0	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inve	stigation	Project	Oct-21

Plate 27	TP10 - 0.00 - 2.70mbgl		
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Plate 28	TP10- REINSTATE		
Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200		Project :- A46 NNB 0	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inve	,	Project	Oct-21

		Proprie A CA MENUA Proprie A CA MENUA Proprie A NA BOZ 6914 Hale Rot. T.P. F.I. O. Z.F. S. M. BOL Notes: S.A. P.H.	
Plate 29	TP11 0.00 -2.50mbgl		
	Pr	Hect: A46 NEWARK oject No. BOZI6748 Hole Ref. TP HI 27:5 M b3L Notes:	
	2.50mbgl		
Tetra Tech 5th Floor, Longcross Cour 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy	TETRA TECH	Project :- A46 NNB Project	Oct-21
Ground Technologies & Inve		-	







	LETRA TECH Depth Range: Date: 2,3-4-7	0 - 1.2 m b91	
Plate 37	TP15 0.00 - 1.20mbgl		
Plate 38	TP15 0.00 - 1.20mbgl		
Tetra Tech 5th Floor, Longcross Co 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB	
Environmental Consultan Ground Technologies & Ir	cy ivestigation	Project	Oct-21

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	TE	toject AH 6 NJEWARK roject NO. BOZ6948 lola Ref. TPIS IZ ~ D9I Notes:	
Plate 39	TP15 0.00 - 1.20mbgl - SPOIL		
Plate 40	BLANK		
Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD	TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consultancy Ground Technologies & Inv	estigation	Project	Oct-21



Project. Al-L6 M TETRA TECH Project No. BO Dufo Range 28-4-21 Noe Dufo 28-4-21 Noe	2.5. 11.1 .1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
Plate 43 TP25 - 0.00 - 1.20mbgl		
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0.00 -		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road	Project :- A46 NNB	
Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

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		A4.6 NEWARK No. B02.6948 St: TP25. 1.2 m b91	
Plate 45	TP25 - 0.00 - 1.20mbgl - SPOIL		
Plate 46	BLANK		
Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321		Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Inve	estigation	Project	Oct-21

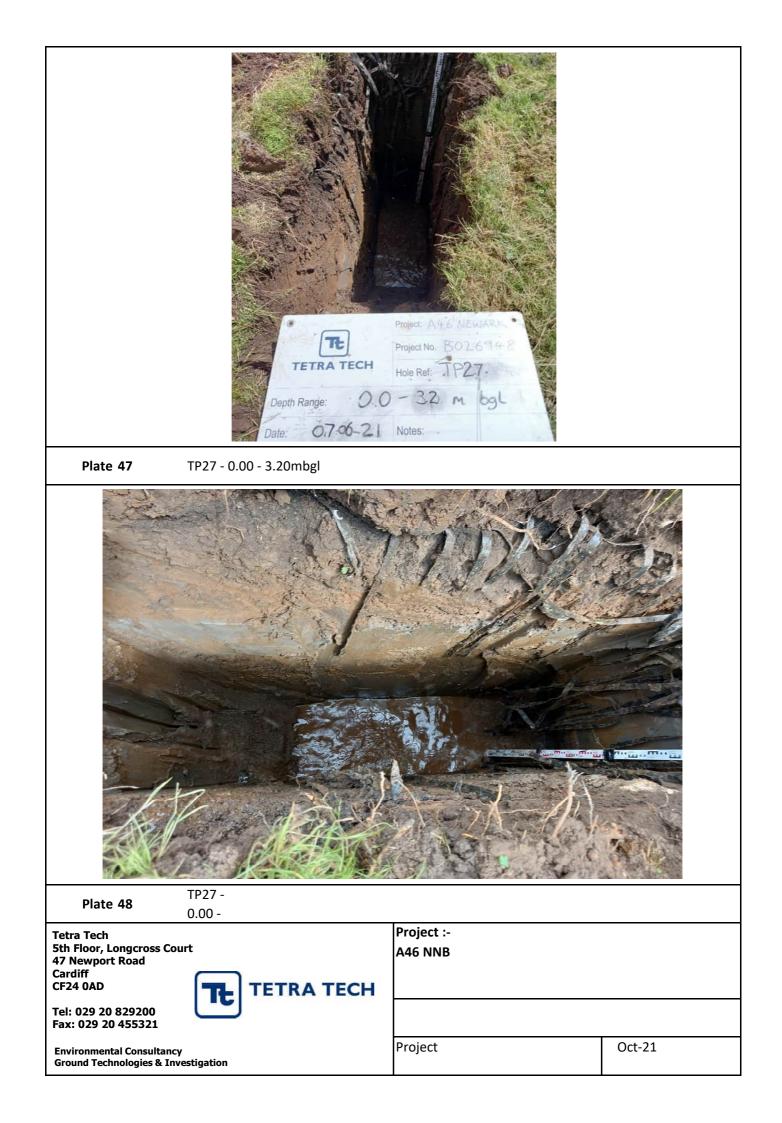


Plate 49 TP2	27 - 0.00 - 3.20mbgl		
	ANK	Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TE TETRA TECH	A46 NNB	
Environmental Consultancy Ground Technologies & Investig	ation	Project	Oct-21

	Project	A46 NEWARK No. BOZ6948 ef: TP30 20m bgL HP		
Plate 51 TP	30 - 0.00 - 1.20mbgl			
Plate 52 0.0	30 - 00 -			
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB		
Environmental Consultancy Ground Technologies & Investig	ation	Project	Oct-21	

Plate 53	TP30 - 0.00 - 1.20mbgl -SPOIL		
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Tetra Tech 5th Floor, Longcross Cod 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultance	TETRA TECH	Project :- A46 NNB Project	Oct-21

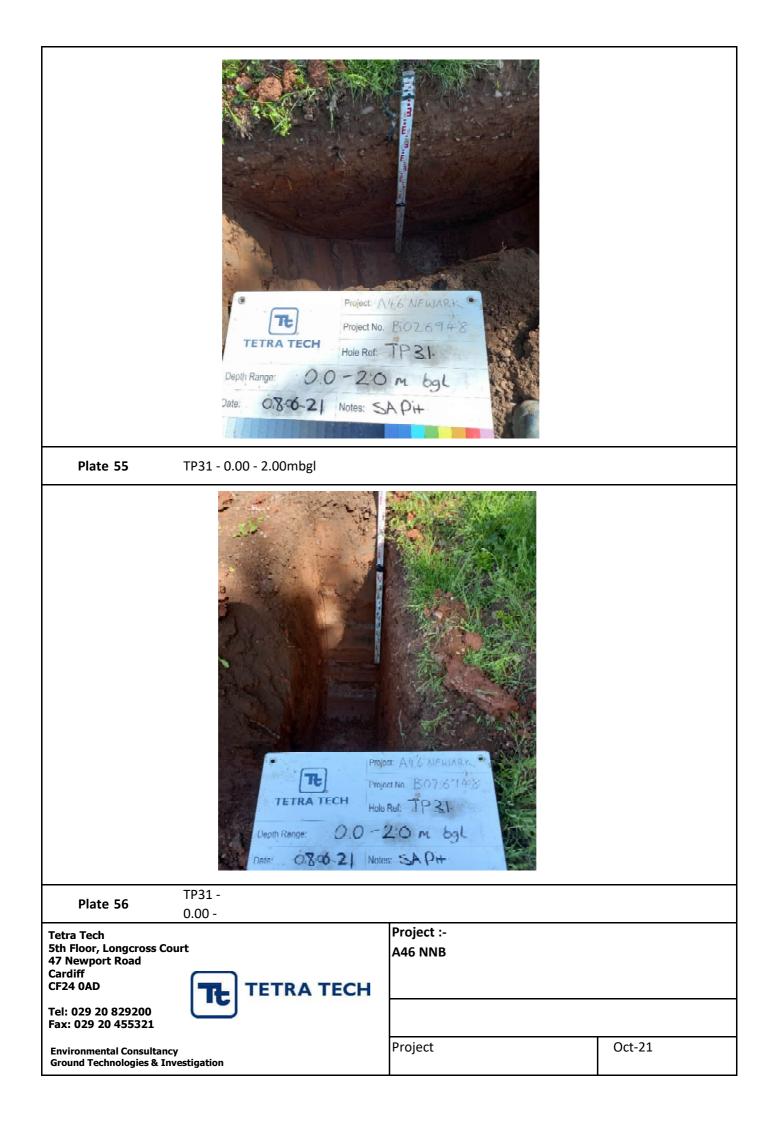
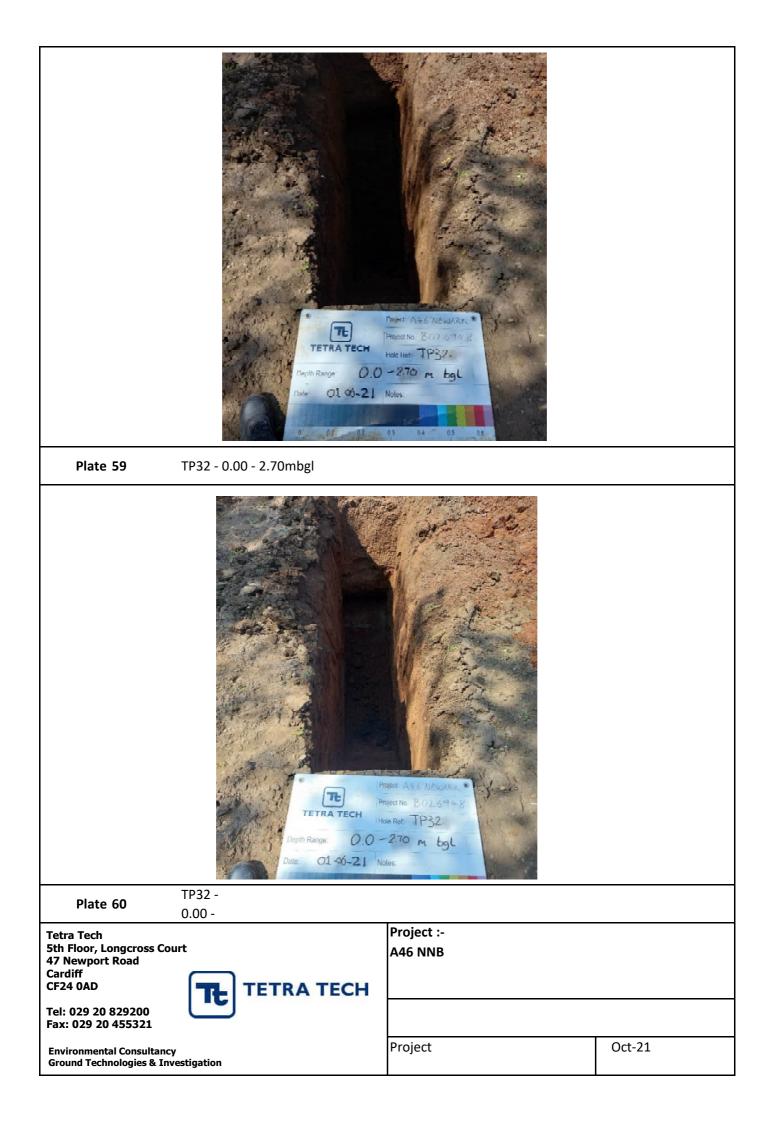
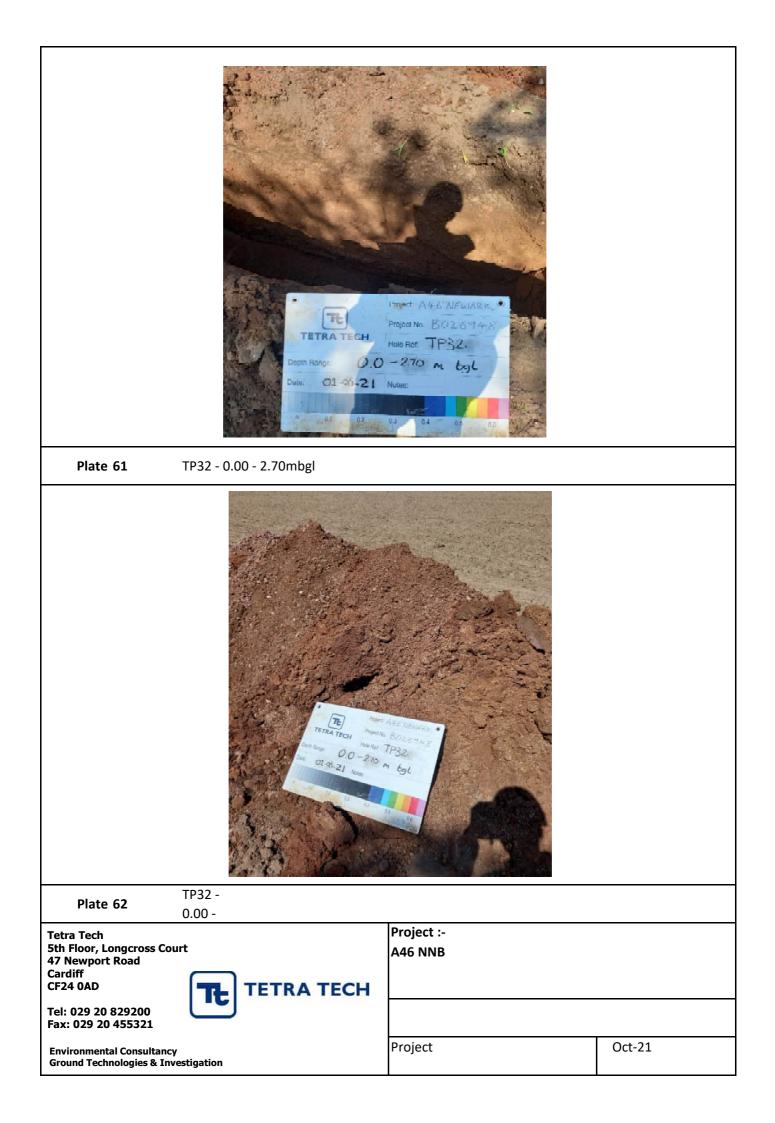


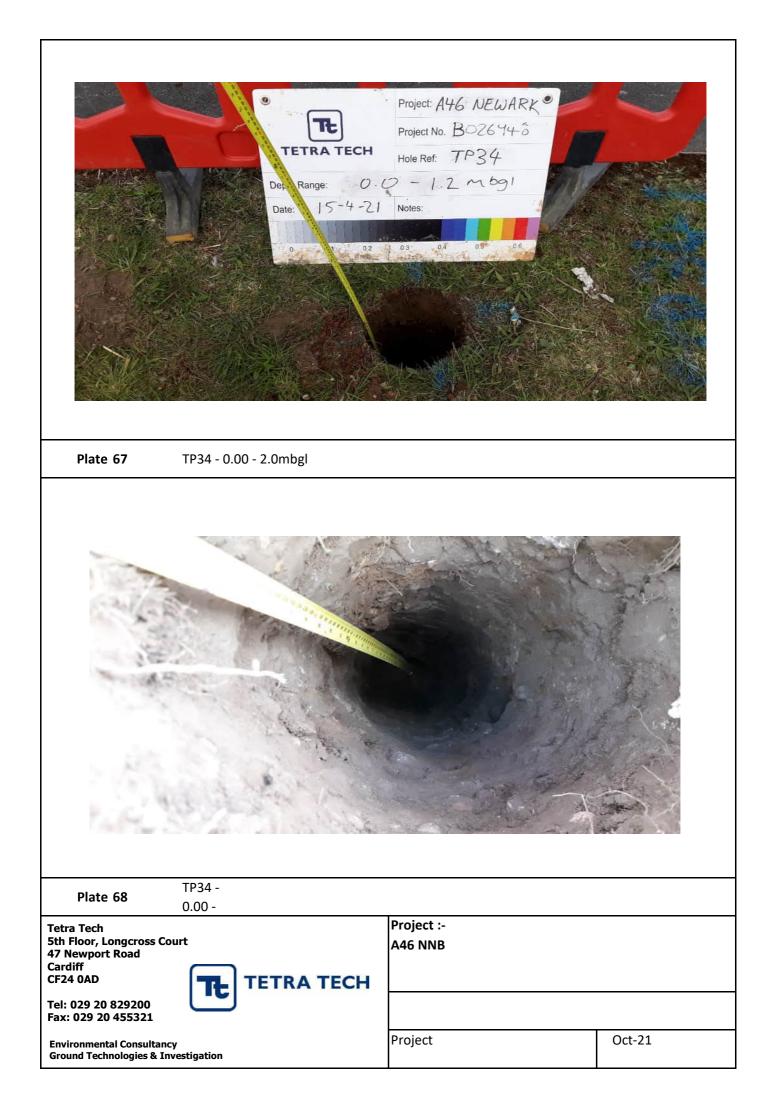
Plate 57	TP31 - 0.00 - 2.00mbgl - SPOIL		
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Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Inv	estigation	Project	Oct-21



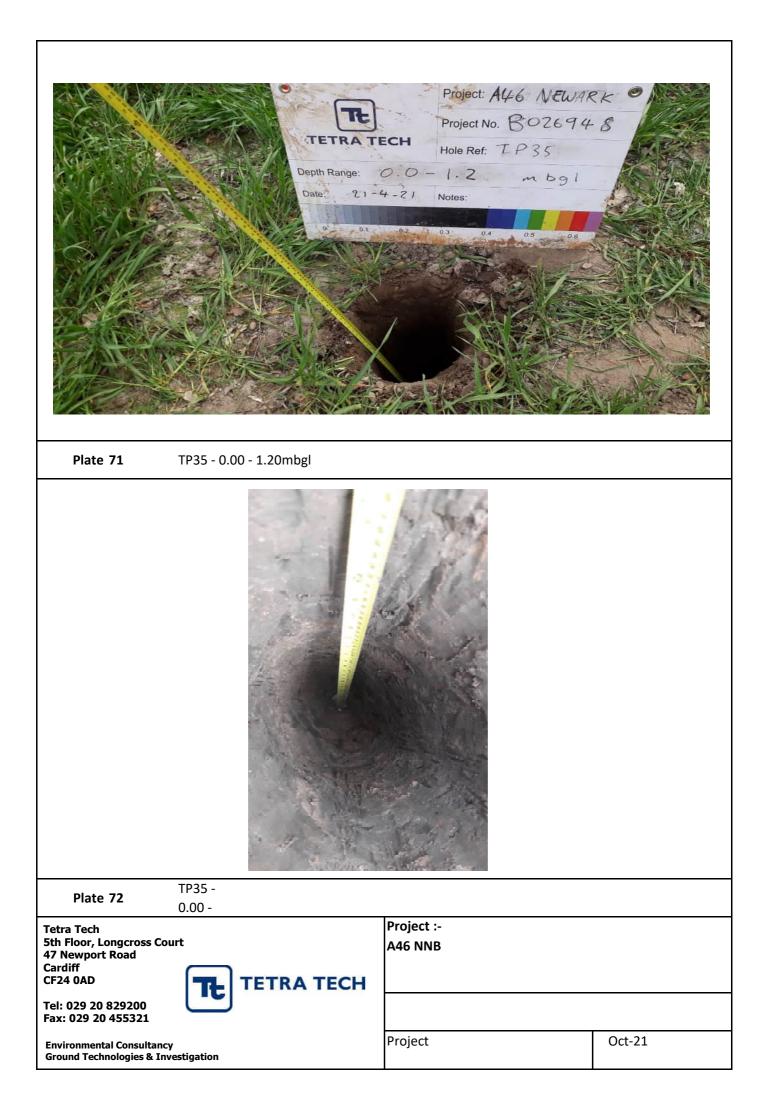


	Project TETRA TECH Depth Range: D.0 Date: 0 D1 02 03	tt A46 NEWJARK the BOZE9748 tet: TP33 50m bgl SAPIH	
Plate 63	TP33 - 0.00 - 1.50mbgl		
	Pepti k Data- 0	AND	
Plate 64	TP33 - 0.00 -		
Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200		Project :- A46 NNB	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inv	estigation	Project	Oct-21

TETRA TECH Depth Range: 0.0 Date 0.7-26-2 j	Project A46 AJE WARK Project No. BO2.6948 Hole Ref: TP33 D-1.50 M BgL Notes: SA Pit	
Plate 65 TP33 - 0.00 - 1.50mbgl		
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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	Oct-21



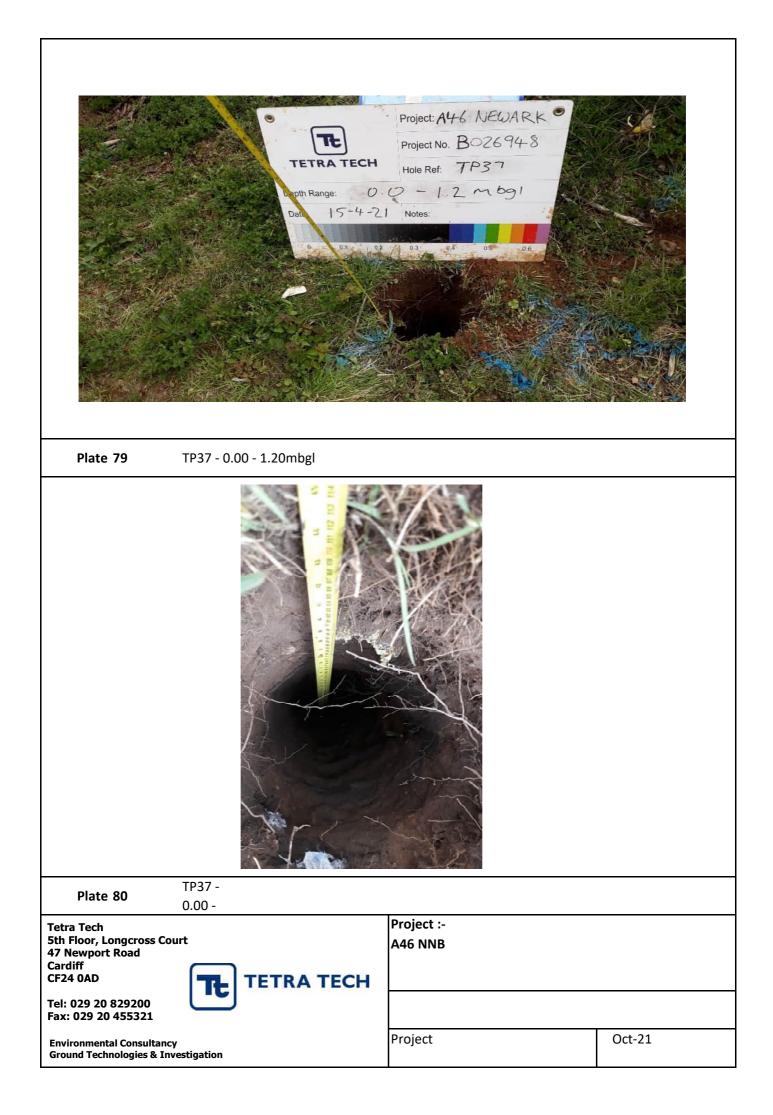
	Pretra TECH H Depth Range: 0-0 Date: 15-4-21 N	roject: A46 NEWARK roject No. BO2694-5 ole Ref: TP34 - 1.2 m bg1 otes:	
Plate 69	TP34 - 0.00 - 2.0mbgl - SPOIL		
Plate 70	BLANK	Project :-	
Tetra Tech Sth Floor, Longcross Co 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultance	TETRA TECH	A46 NNB Project	Oct-21
Ground Technologies & Inv	y vestigation		



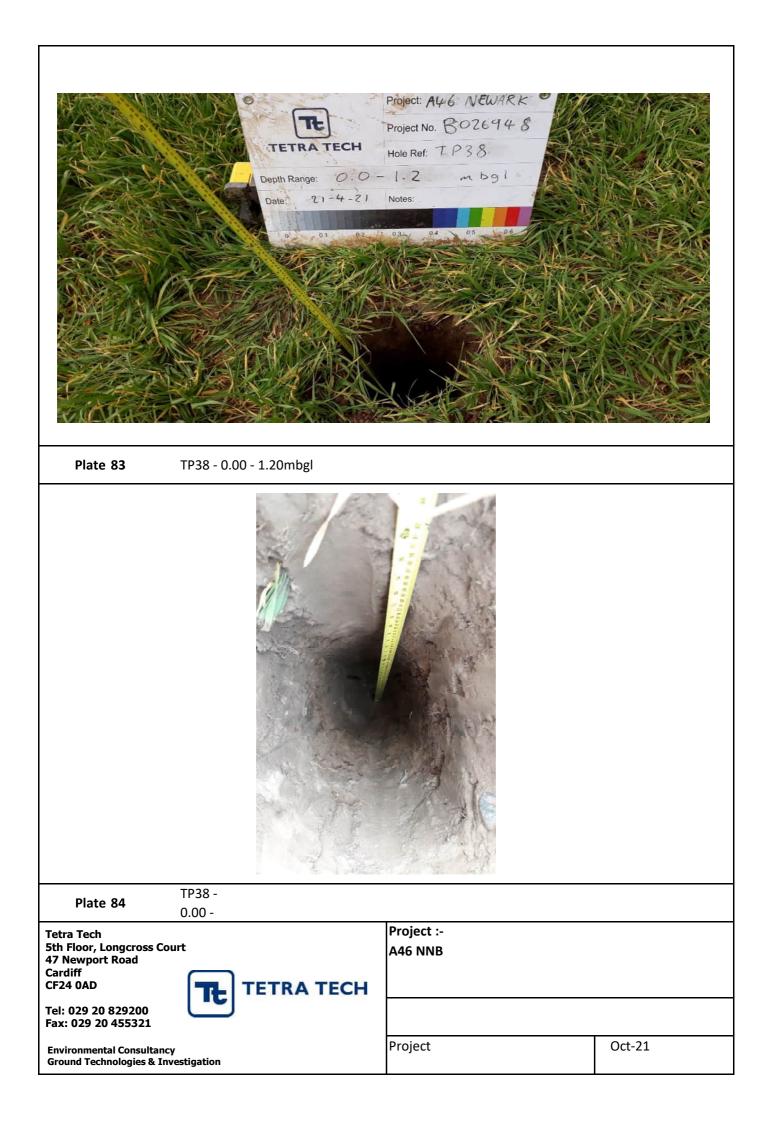
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Plate 73	TP35 - 0.00 - 1.20mbgl - SPOIL		
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Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD		Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consultancy Ground Technologies & Inve	stigation	Project	Oct-21



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Plate 77 TP36 - 0.	00 - 1.20mbgl - SPOIL		
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Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation		Project	Oct-21



	TETRA TECH Depth Range: 0.0 Date: 15-4-21	Project: A4-6 NJEWARK Project No. B026948 Hole Ref: TP37 - 1.2 m b91 Notes:	
Plate 81 TP3	7 - 0.00 - 1.20mbgl - SPOIL		
Plate 82			
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA TECH	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investiga	tion	Project	Oct-21



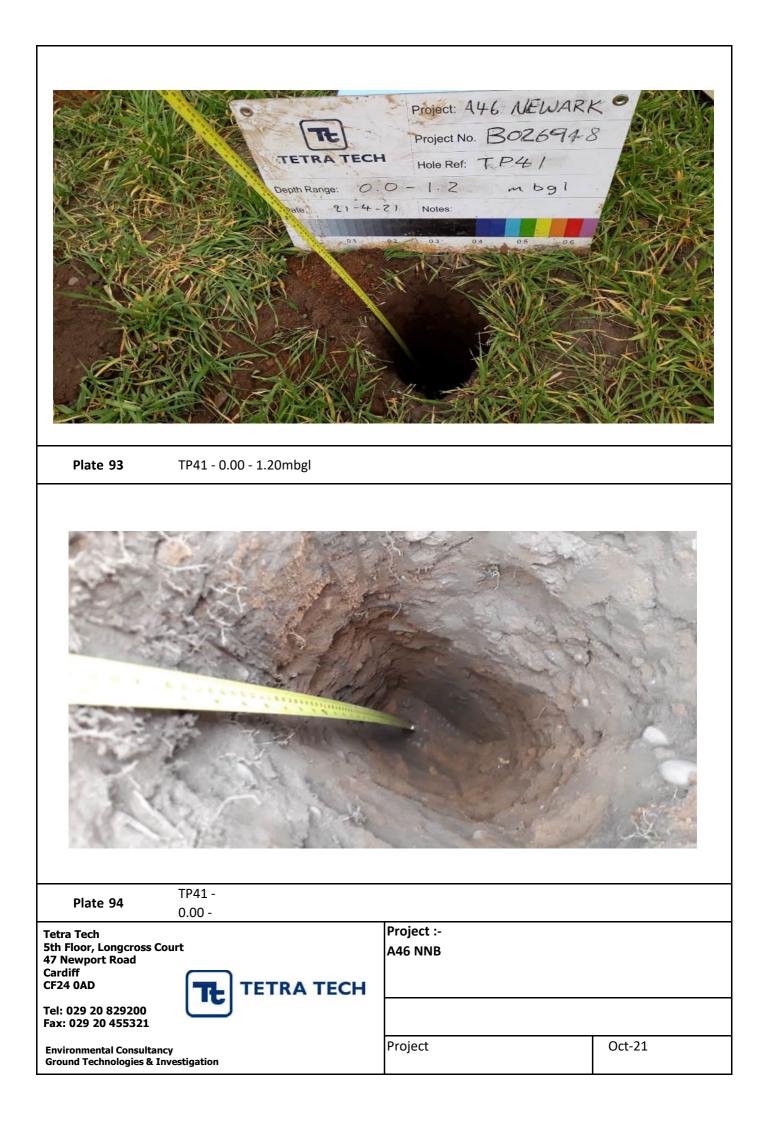
	Project: A4-6: //EWARK Project No. BO26948 Hole Ref: TP38 1-2 mbg1 Notes:	
Plate 85 TP38 - 0.00 - 1.20mbgl - SPOIL		
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Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

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	Depth Range: Date: 15-4	Hole Ret: 1131 $0.0^{\circ} - 0.6 m bg1$	+8
Plate 87	TP39 - 0.00 - 0.60mbgl		
Plate 88	TP39 - 0.00 -	-	
Tetra Tech 5th Floor, Longcross Co 47 Newport Road Cardiff CF24 0AD		Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consultan Ground Technologies & Ir	cy vestigation	Project	Oct-21

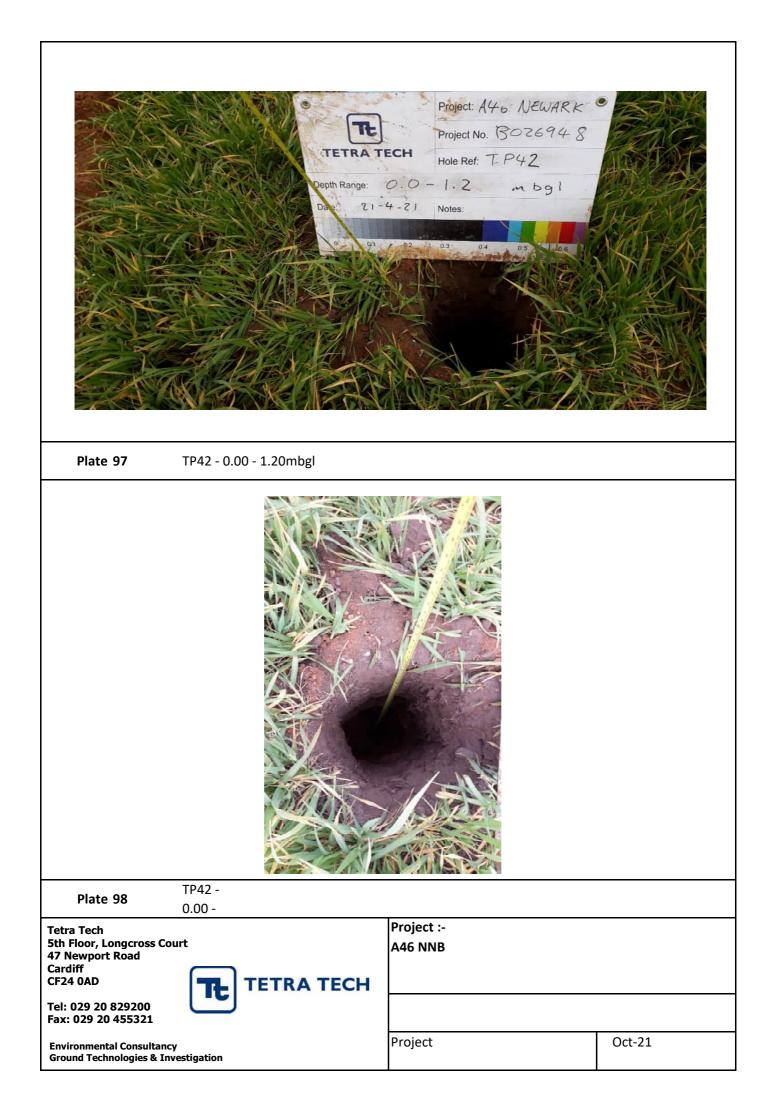
Proj	ect: A446 NJEWARK ect No. BO2694-8 Ref: TP39 - 0.6 ~ b91 s:	
Plate 89 TP39 - 0.00 - 0.60mbgl - SPOIL		
Plate 90 Tetra Tech	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321	Drojest	0.4.21
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

Date: Z1-4	Project: A46 NEWARK Project No. BOZ6948 Hole Ref: TP40 D.O-1.2 mbgi -21 Notes:	
Plate 91 TP40 - 0.00 - 1.20mbgl		
Plate 92 TP40 - 0.00 -		
Tetra Tech Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Favor 020 20 455231	Project :- A46 NNB	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21



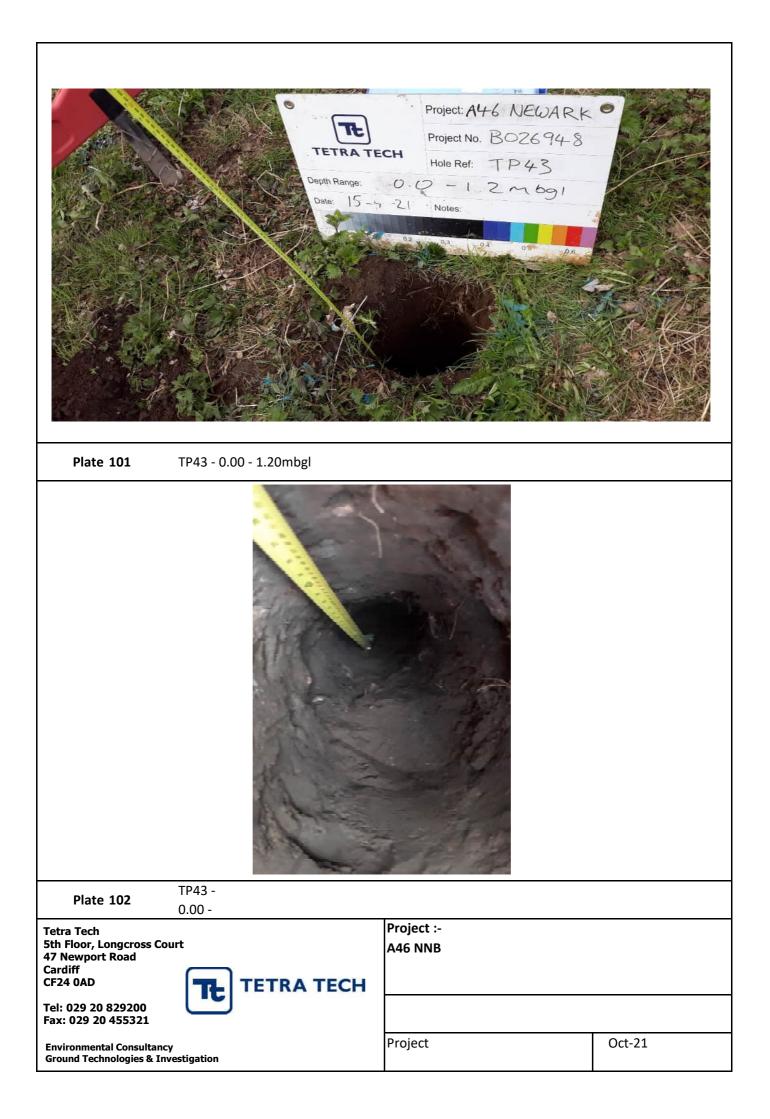
		roject A46 NEWARK •	
		ole Ref T.P.4.1	
	Date: 21-4-21 N		
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Plate 95	TP41 - 0.00 - 1.20mbgl - SPOIL		
Plate 96	BLANK		
Tetra Tech 5th Floor, Longcross Cou	ırt	Project :- A46 NNB	
47 Newport Road Cardiff CF24 0AD	TE TETRA TECH		
Tel: 029 20 829200 Fax: 029 20 455321			
Environmental Consultancy Ground Technologies & Inv	, estigation	Project	Oct-21

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	Project A4 b NEWARK Project No. B02694 S Hole Ref: T.P42 0-1.2 m bg1 Notes	
Plate 99 TP42 - 0.00 - 1.20mbgl - SPOIL		
Plate 100 BLANK	Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

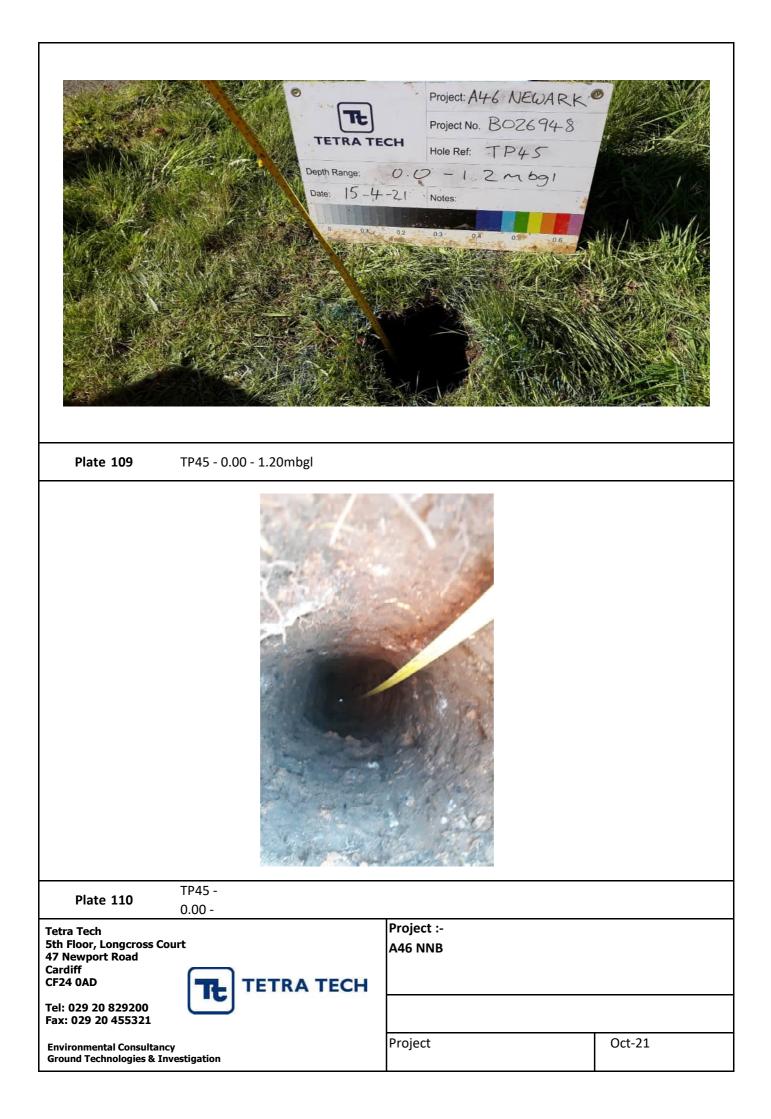
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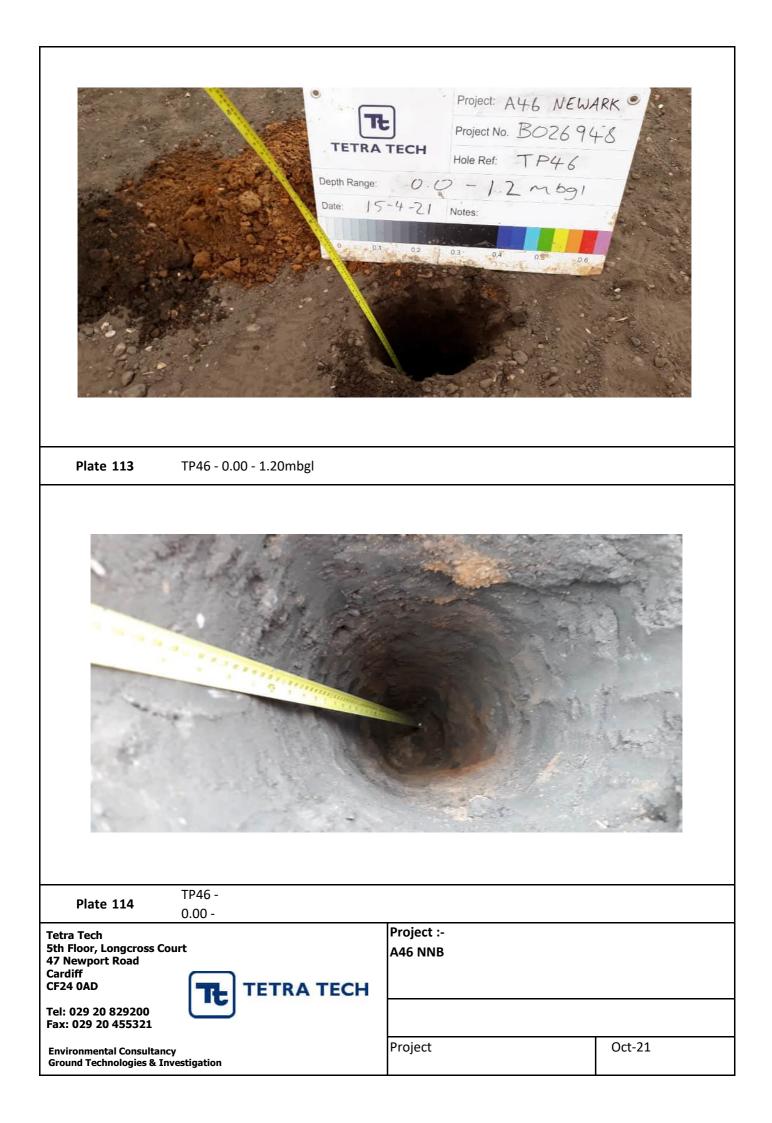
Depth Range: O Date: 5-7-2.1 Date: 5-7-2.1	Hole Ref: 1P45 Q - 1.2 m bg1 Notes:	
Plate 103 TP43 - 0.00 - 1.20mbgl - SPOIL		
Plate 104	Project -	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Tetra Tech Tetra Tech Tetra Tech TETRA TECH	Project :- A46 NNB	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21



Image: Image	Q - 12 mbg1
Plate 107 TP44 - 0.00 - 1.20mbgl - SPOIL	-
Plate 108 Tetra Tech	Project :-
Tel: 029 20 829200	A46 NNB
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Investigation	Project Oct-21



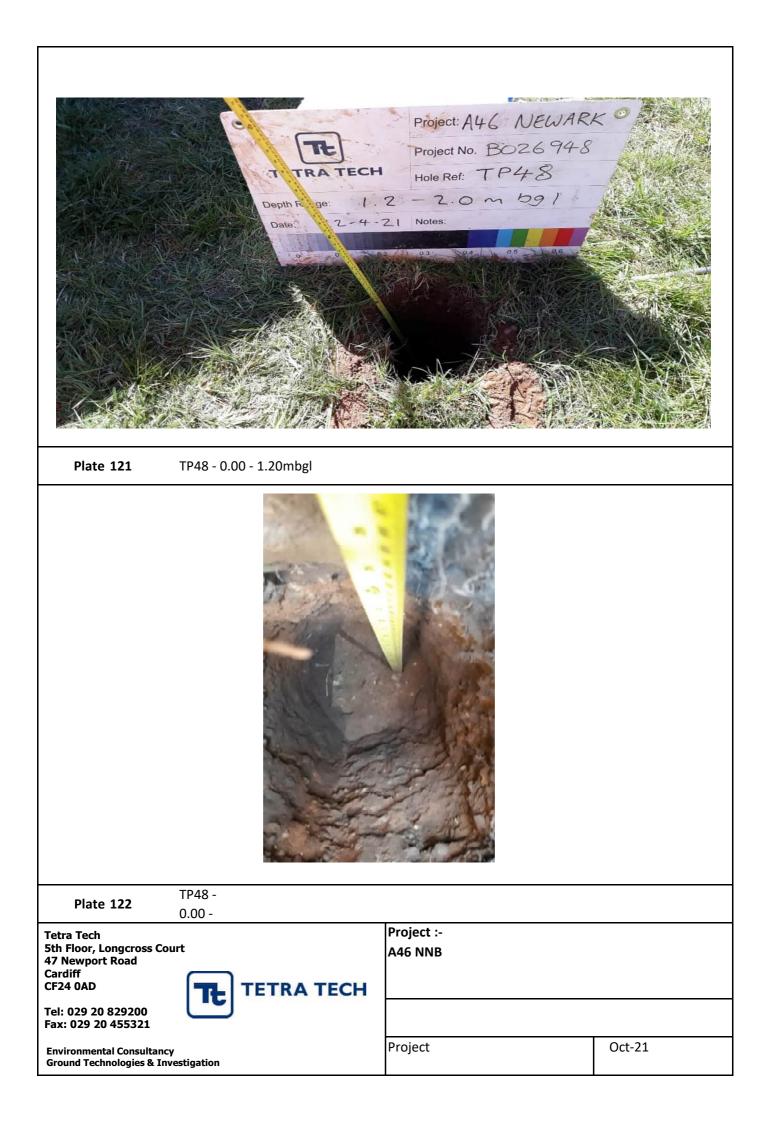
	Project: Al-46 NEWARK Project No BO2694-8 Hole Ref: TP45 2-1.2 m bg1 Notes:	
Plate 111 TP45 - 0.00 - 1.20mbgl - SPOIL		
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Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21



TE F	Notes:	
Plate 115 TP46 - 0.00 - 1.20mbgl - SPOIL		
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Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

	Depth Range: Date: 14-4-2	Hole Ref: 1 P47	ARK?
Plate 117 TP47 - 0.00) - 1.20mbgl		
Plate 118 TP47 - 0.00 -		-	
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	TETRA TECH	Project :- A46 NNB Project	Oct-21

TETRA TECH H	oject: A46 NEWARK oject No. BO2.6948 ble Ref: TP47 - L.2 mb91 otos	
Plate 119 TP47 - 0.00 - 1.20mbgl - SPOIL		
Plate 120 BLANK	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	A46 NNB	
Fax: 029 20 455321		0.1.21
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21



	Depth Ra	Physic A46 NEWARK Project No. Bo26948 Hole Ref TP4-8 102 - 2.0 m bg 1 22-4-21 Keller	
Plate 123	TP48 - 0.00 - 1.20mbgl - SPC	DIL	
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Tetra Tech 5th Floor, Longcross Cou 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200		Project :- A46 NNB	
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inv	estigation	Project	Oct-21

	Date: 21-4-2	Hole Ret: Fr 4-7	
Plate 125	TP49 - 0.00 - 1.20mbgl		
Plate 126	TP49 - 0.00 -		
Tetra Tech 5th Floor, Longcross Co 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200		Project :- A46 NNB	
Fax: 029 20 455321 Environmental Consultance Ground Technologies & Inv	y restigation	Project	Oct-21

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	TETRA TEC	CH Project No. B02694 8 Hole Ref. T P4 9	
Service of		0-1.2 м bg1 -21. Notes	
S ANT AND	A CAR AND		
		CARLES PROVER	
			TO CONSTRUCTION
Plate 127	TP49 - 0.00 - 1.20mbgl - SPOIL		
Plate 128	BLANK		
Tetra Tech 5th Floor, Longcross Cou 47 Newport Road	urt	Project :- A46 NNB	
Cardiff CF24 0AD	TETRA TECH	ı	
Tel: 029 20 829200 Fax: 029 20 455321			1
Environmental Consultancy Ground Technologies & Inv	/ vestigation	Project	Oct-21

	17 mbg1 55	
Plate 129 TP50 - 0.00 - 1.20mbgl		
Plate 130 TP50 - 0.00 -		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

TETRA TECH	Project: , +6. NEWARK Project No. BO26948 Hole Ref: TP:50 12mb91 Notes:	
Plate 131 TP50 - 0.00 - 1.20mbgl - SPOIL		
Plate 132 BLANK		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	Project :- A46 NNB	0.1.21
Environmental Consultancy Ground Technologies & Investigation	Project	Oct-21

Upge: SC Type: WS Indextor: 69 Client: Highways England Casing Convert Steel 1 (Steel 1	of 1 1:50 NEB JC 18/04/2021 16/04/2021
Induction (9) Control Induction (9) Control Sheet 1 (Control Sheet 1 (Control <th>1:50 NEB JC 18/04/2021 16/04/2021</th>	1:50 NEB JC 18/04/2021 16/04/2021
Prom (m) To (m) Type Pare Lised Orew Depth (m) Demt (m) To (m)	NEB JC 18/04/2021 16/04/2021
Strata Description Legend Depth (m) Redued Level (m) Water (m) Int / J Description 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) 0.50 0.60 0.00 ESI 0.00 ESI Soft brown slightly sandy clayey SILT. Sand is fine to coarse. (ALLUVIUM) 0.50 10.49 Image: Complex sector (COPSOIL) 0.50 0.60 0.80 ESI Soft brown slightly sandy clayey SILT. Sand is fine to coarse. (ALLUVIUM) 0.50 10.49 Image: Complex sector (COPSOIL) 0.50 10.49 Image: Complex sector (COPSOIL) 0.50 1.20 0.50 ESI 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. 3.60 7.39 3.60 7.39 3.60 3.60 810	1-
Strata Description Legerd Depth (m) (mAOD) Invest (m) (mAOD) Depth (m) (mAOD) Ref Tests / Results Dark brown slightly gravelly slity fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) 0.50 10.49 0.10 0.20 0.50 83 Soft brown slightly sandy clayey SILT. Sand is fine to coarse. 0.50 10.49 0.50 10.49 55 0.60 0.83 ULUVIUM) 0.50 10.49 54 1.20 0.55 597(C) 1.20m, N=1 (0.0/0.0.0,1) Soft brown slightly sandy clayey SILT. Sand is fine to coarse. 74	
to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) 0.20 - 0.50 82 Soft brown slightly sandy clayey SILT. Sand is fine to coarse. 10.49 0.60 - 0.80 83 ALLUVIUM) 1.20 05 SPT(C) 1.20m, N=1 (0.0/0.00.1) Soft brown slightly sandy clayey SILT. Sand is fine to coarse. 1.49 1.49 1.20 05 SPT(C) 1.20m, N=1 (0.0/0.00.1) Soft brown slightly sandy fine and medium angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. 3.60 7.39 3.60 - 3.90 81	
Soft brown slightly sandy clayey SLL1. Sand is fine to coarse. (ALLUVIUM) 0.60 - 0.80 1.20 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5	
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. 3.60 7.39 7.39 8.10 8.10 8.10 8.10 8.10 8.10 8.10 9.10 <t< td=""><td></td></t<>	
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. 3.60 7.39 7.39 3.60 - 3.90 810	2 -
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.	2 -
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.	2 -
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.	2 -
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.	
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.	
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.	
angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse.	3 -
angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse.	
	4 -
	-
EOH at 5.00m - Terminated due to refusal 5.00 5.99 5.99 5.99	5 -
	6 -
	7 -
	8 -
	9 -
	10 -
Observations / Remarks Sampling Runs Hammer In	
I. Upon completion exploratory hole backfilled with bentonite. From (m) To (m) Diam (mn) Recovery % Remarks Serial No. 1.20 2.00 3.00 87 90 40 40	Energy Ratio %
3.00 4.00 87 60 4.00 5.00 77 0	Number
Project Project	
784-B0	

		Project:		:		ocatio			25200			Status		B	orehole N	lumber			
[TŁ	Location:	Newark	k-on-Trent	, Nottinghams	hire	Easting: Level:	47806 10.91r		Dept	hing: h:	35309 5.00m			FINAL	-		wso)6
TETI	RA TECI	H Client:	Highwa	ays Englan	d		Logger:	SC		Type	a: nation:	WS						Sheet 1	of 1
		Metho	od, Plant and	d Crew		Diameter	Cas	sing			Iduon		roundwat	er			Scale:	Sheet 1	1:50
From (m)	To (m)	Туре	1	Plant Used	Crew	Depth (m) Diam (mm)	Depth(m)	Diam (mm)	(m)	Casing (m)	Sealed (m)	(m)	(mins)		Remarks		Checke	d By:	NEB
0.00 1.20	1.20 5.00	Inspection Pit Dynamic Windowless S	Sampling Archv	nd Excavated way Competitor	R.L/A.B R.L/A.B	1.20 300 4.00 110 5.00 77	4.00	110	1.20	-	-	0.90	20				Approv Start D		JC 18/04/2021
																	Finish I		18/04/2021
			Strata	Description			Legend	Depth (m)	Reduced Level	Wa		Inst /			S	amples a	nd Testin	g	
							- Cogena	Deput (iii)	(mAOD)	Level	(m)	Backfill	Depth (m	_			Tests / Re	esults	
Sub-roi TOP	unded of	sandstone and	flint. Silt is fi	ine to coarse.	avel is fine to coar (TOPSOIL)	se angular to							0.10 0.20 - 0.4	ES1 B2					
Loose	becomin Gravel i	g medium dense s fine to coarse a	e orangish br	rown slightly g	gravelly silty/clayey	y fine to coarse		0.40	10.51				0.50 - 0.7	вз					
		SAND & GRAVEL			qualizite.						,		0.80	ES4					
											_ 7	•							1 -
											<u> </u>		1.20	D5	SPT(C) 1.	20m, N=5	(1,2/1,2,1,	1)	
		rown from 1.4m bg n 1.5m bgl	7/								•		1.50 - 1.8	D B6					
											•		1.90	ES7					
											•	. [] .	2.00	D8	SPT(C) 2.	00m, N=9	(2,2/2,2,2,	3)	2 -
1.0	tht brown	from 2.4m bgl								2.20 - 2.0									
LIG	μις DI UWΠ	וווד. ב וווטון UYI									•		1						
								•		3.00	D10	SPT(C) 2	00m N-3	2 (2,2/3,6,6	57)	3 -			
		light grey and b	of sandstone		3.10	7.81				3.10 - 3.6		3F1(C) 5.	00111, 14-2	2 (2,2,3,0,0	···)	3			
		RAVEL. Sand is AND & GRAVEL		se.							•								
											•								
L/		ed back to 4.0m bg	-/								• '		4.00	D12	SPT(C) 4.	00m, N=1	7 (3,4/3,5,4	,5)	4 -
770	ne conaps	eu back to 4.011 by	<i>J</i>																
		EOH at 5.00)m - Termina	ated with bor	ehole collapsed			5.00	5.91				5.00	D13	SPT(C) 5.	00m, N=2	2 (3,4/5,5,6	i,6)	5 -
																			6 -
							1												7 -
							1												
							1												8 -
							1												
							1												
							1												
							1												9 -
							1												
							1												
											Ļ		4						10 -
bserva	ations / F	Remarks								1	+		L,	Samnlin	g Runs			Hammer	Information
			eter gas/gro	undwater mo	nitoring pipe instal	led to 4.00m bgl.						From (m)	1		Recovery %	Ren	narks	Serial No.	Energy Ratio %
																		Project	Number
																		784-R	026948

	Project:	A46 Newark - Noi	thern Bypass					n Details				Status	Во	rehole N	umber
Ŧŧ	Location:	Newark-on-Trent	, Nottinghamsh	ire	Easting: Level:	478099 10.59n		Northing: Depth:	35321 6.00m			FINAL		WS0	8
TETRA TECH		Highways England	-		Logger:	SC		Type:	WS						
			u	Diseaster	6	•		Inclination						Sheet 1	
rom (m) To (m)	Type	od, Plant and Crew	Crew	Diameter Depth (m) Diam (mm)	Cas Depth(m)	Diam	Strike (Casing Seale	d Rose To	Time	er	Remarks	Scale: Checked	Bv:	1:50 NEB
0.00 1.20	Inspection Pit ynamic Windowless S	Hand Excavated	R.L/A.B R.L/A.B	1.20 300 5.00 110	5.00	(mm) 110	(m) 1.10	(m) (m)	(m) 0.80	(mins) 20			Approved		JC
	,			6.00 77									Start Dat	e:	19/04/2021
													Finish Da	ite:	19/04/2021
		Strata Description			Legend	Depth (m)	Reduced Level	Water Level (m)	Inst / Backfill			Sample	es and Testing		
Dark brown cligh	the gravally site	y fine to coarse SAND. Gr	aval is fina to coars	o cub angular			(mAOD)	Ecver (iii)		Depth (m)	Ref		Tests / Resu	ılts	
		ad quartzite. Silt is fine to								0.10 0.20 - 0.40	ES1 B2				
	modium donco	brown and orangish brow	up clightly gravally	clightly clayov		0.50	10.09								
fine to coarse SA		ine to coarse angular to s								0.70 0.80 - 1.20	ES3 B4				
quartzite. (ALLUVIUM)								\bigtriangledown							1
										1.20	D5	SPT(C) 1.20m, I	N=2 (1,1/1,0,0,1)		
										1.50	ES6				
										1.60 - 1.90	B7				
										2.00	D8	SPT(C) 2.00m, I	N=28 (6,7/7,7,7,7)	2
										2.10 - 2.50	B9				
						2.00	7 00								
Aedium dense b o sub-rounded o	ecoming dense of sandstone ar	light grey and brown slig ad quartzite GRAVEL. San	htly sandy fine to c d is fine to coarse	oarse angular		2.60	7.99			2.60 - 3.00	B10				
ALLUVIUM)										3.00	D11	SPT(C) 3.00m, I	N=12 (5,3/3,3,3,3)	:
										3.30 - 3.60	B12				
										4.00	D13	SPT(C) 4.00m, I	N=12 (3,3/3,3,3,3)	
									•.°⊢.•	4.90 5.00 - 5.45	D14 U7615				
										5.50 - 5.90 5.50 - 5.90	B13 B16				
	EOH at	6.00m - Terminated due	e to refusal			6.00	4.59			6.00	D17	SPT(C) 6.00m, 5	50 (10,14/50 for 1	80mm)	
										1					1
servations / Re					-		•			т т	-	g Runs		Hammer I	1
Upon completio	on 50mm diame	eter gas/groundwater mo	nitoring pipe installe	ed to 5.00m bgl.					From (m) 1.20 2.00	To (m) E 2.00 3.00	Diam (mm) 87 87	100	Remarks	Serial No.	Energy Rati
									3.00 4.00	4.00 5.00	87 87	100 60 50			
									5.45	6.00	77	100		Project	Number
														784-B(02694

Project: A46 Newark - Northern Bypass	Easting:	47813		n Details Northing:		3.66		Status	Boreho	e Number
Location: Newark-on-Trent, Nottinghamshire	Level:	10.74r		Depth:	3.00m			FINAL	w	S10
TETRA TECH Client: Highways England	Logger:	SC		Type: Inclinatio	WS				Shee	t 1 of 1
Method, Plant and Crew Diameter	Cas	sing			Gi	roundwate	er		Scale:	1:50
om (m) To (m) Type Plant Used Crew Depth (m) Diam (mm) 0.00 1.20 Inspection Pit Hand Excavated R.L/A.B 1.20 300	Depth(m) 3.00	Diam (mm) 110	Strike ((m) 1.10	Casing Seale (m) (m)	ed Rose To (m) 0.60	Time (mins) 20		Remarks	Checked By:	NEB
1.20 3.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B 3.00 110									Approved By: Start Date:	JC 18/04/202
									Finish Date:	18/04/202
Strata Description	Legend	Depth (m)	Reduced Level	Water Level (m)	Inst / Backfill			Sample	es and Testing	
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular o sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL)			(mAOD)			Depth (m) 0.10 - 1.00 0.20 - 0.40	ES1		Tests / Results	
TOP .oose becoming medium dense brown slightly gravelly slightly clayey SAND. Gravel is fine		0.40	10.34			0.50	ES3			
o coarse angular to sub-rounded of sandstone and quartzite. ALLUVIUM)						0.60 - 1.00	B4			
No clay from 1.3m bgl						1.20	D5	SPT(C) 1.20m, I	N=6 (1,2/1,2,1,2)	
						1.50 1.60 - 1.90	ES6 B7			
						2.00	D8	SPT(C) 2.00~	N=19 (4,5/4,4,6,5)	
	-					2.00 - 3.00	B9	51 1 (C) 2.0011, 1	· • • (• • • • • • • • • • • • • • • •	
EOH at 3.00m - Terminated with borehole collapsed		3.00	7.74			3.00	D10	SPT(C) 3.00m, I	N=29 (3,3/6,7,8,8)	
		-								
cervations / Remarks							amplin		Home	er Informati
servations / Remarks Jpon completion exploratory hole backfilled with bentonite.					From (m)	<u>г г</u>	-	g Runs Recovery %	Remarks Serial 1	lo. Energy Ra
									Pro	ject Number
									784	- B0269 4

		Project: A4	46 Newark - No	Location D Easting: 478185.62 No									Status		Boreho	e Number		
	TŁ		ewark-on-Trent		ire		Easting: Level:	47818 10.17r		Nort Dep	thing: th:	35347 3.00m			FINAL		w	S12
TETR	RA TEC	н	ighways Englan				Logger:	SC		Туре		WS						
			ant and Crew		Diam	neter	Ca	sing		Incli	ination		roundwat	fer			Scale:	t 1 of 1 1:50
From (m)	To (m)	Туре	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	(m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)		Remarks		Checked By:	NEB
0.00 1.20	1.20 3.00	Inspection Pit Dynamic Windowless Samplin	g 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
																	Start Date: Finish Date:	19/04/2021 19/04/2021
									Reduced	Wa	ater	Inst /			Sa	imples and	d Testing	
			Strata Description				Legend	Depth (m)	Level (mAOD)		el (m)	Backfill	Depth (m) Ref		٦	Tests / Results	
sub-rou	rown sli unded o	ghtly gravelly silty fine f sandstone and quart	e to coarse SAND. Gr zite. Silt is fine to co	ravel is fine to coars parse. (TOPSOIL)	e angular	r to						5 - 5 S	0.10 0.20 - 0.4	ES1 0 B2				-
TOP	n dense	brown clayey slightly	gravelly slightly san	dv SII T. Gravel is fi	ne to coa	rse		0.50	9.67				0.50 - 0.8	0 ВЗ				-
	r to sub	-rounded of quartzite.																-
		vey from 0.9m bgl									- 7	·	1.00	ES4				1 -
Gre	ey from 1	1.3m bgl									∠_ . .		1.20	D5	SPT(C) 1.2	20m, N=1 (1	1,1/0,0,1,0)	-
No	clay from	m 1.5m bgl									•		1.50 1.60 - 1.9	ES6 0 B7				-
											•		2.00	D8	SPT(C) 2.0	0m. N=10 ((2,2/2,2,2,4)	2-
Sai	mpler jan	mmed in casing from 2.0 t						•		2.00 - 3.0	0 B9	5, 1(0) 2.0	, , , , , , , , , , , , , , , , , , ,	(
																		-
								•		1					-			
		EOH at 3.0	00m - Terminated w				3.00	7.17		•							3 -	
																	-	
																-		
																		4-
																		4.
																		-
																		-
																		5 -
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																		-
																		-
																		9 -
																		-
																		-
																		10
Observe	tions / '	Pomarka												Comelia			Unar	10 -
Observa 1. Upon		Remarks tion 50mm diameter g	jas/groundwater mo	nitoring pipe installe	ed to 3.00)m bgl.						From (m)	To (m)	Samplin Diam (mm)	Recovery %	Remar		her Information
												1.20	2.00	87	100			
																	Pro	ject Number
																	784	-B026948
															1			

	Project:	A46 Newark - No		Location E Easting: 478206.40 No									Status		Boreł	nole Num	ber	
TŁ	Location:	Newark-on-Tren		ire		Easting: Level:	47820 10.16r		North Depti		35353 3.00m			FINAL			WS13	
TETRA TEO	сн			in e		Logger:	SC		Туре		WS				-		W315	
	Client:	Highways Engla	na						Inclin	nation							eet 1 of 1	
From (m) To (m)	Method Type	, Plant and Crew Plant Used	Crew	Dian Depth (m)	Diam	Ca: Depth(m)	Diam	Strike 0	Casing	Sealed	d Rose To	roundwa	ter	Remarks		Scale: Checked By:		1:50 NEB
0.00 1.20 1.20 3.00	Inspection Pit Dynamic Windowless Sar	Hand Excavated	R.L/A.B R.L/A.B	1.20 3.00	(mm) 300 110	3.00	(mm) 110	(m) 1.20	(m) -	(m) -	(m) 0.90	(mins) 20				Approved By		JC
	,															Start Date:	21/	04/2021
														c.	amples an	Finish Date:	21/	04/2021
		Strata Description	ı			Legend	Depth (m)	Reduced Level (mAOD)	Wat Level		Inst / Backfill	Depth (m	1) Ref	3		Tests / Results		
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) Slightly clayey from 1.2m bgl No clay from 1.5m bgl Sand blowing up casing from 2.0m to 1.6m bgl Grey to dark grey and slight organic odour between 1.8m and 2.0m bgl Sampler jammed in casing between 2.0m and 3.0m bgl. Borehole terminated							3.00	9.86				0.10 0.10 0.40 - 0.8 0.90 1.20 1.40 - 1.8 1.40 - 1.8 1.80 2.00 2.00 - 3.0	D2 ES1 30 B3 ES4 D5 30 B6 ES7 D8		20m, N=8 (; 00m, N=4 (;	2,2/2,2,2,2)		1 - 2 - 3 - 4 - 5 -
																		6
							-			F		-						10 -
Observations /			•	•	•	•				Samplin	Ĩ			nmer Info				
1. Upon compl	etion exploratory ho	le backfilled with bent	onite.							╞	From (m) 1.20	To (m) 2.00	Diam (mm) 87	Recovery % 90	Rema	rks Ser	ial No. Ene	ergy Ratio %
																	Project Nur	nder
																78	4-B02	6948

From (m) To (m) Type Plant Used Crew Depth (m) Diam (mm) Depth (m) Diam (mm) Strike (m) Casing (m) Sealed (m) Res To (m) Time (mins) Remarks Checked By: N 0.00 1.20 Inspection Pit 1.20 Hand Excaveted Archway Competitor R.I/A.B 1.20 3.00 110 3.00 110 1.30 1 0.80 20 Approved By: 21/04 Start Date: 21/04		Drojactu	AAG Nowark - N	lauthaun Rumaca			l	ocatio	n Details	;			Status	Borehole	Number
TETRA TECH Logger: SC Type: WS Indination: 90° Client: Highways England Method, Plant and Crew Diameter Casing Groundwater Scale: I: I: I Top: (m) Type: WS Indination: 90° Groundwater Scale: I: I: I Top: (m) Groundwater Scale: I: I: I Top: (m) Groundwater Scale: I: I: I Top: (m) Groundwater Scale: I: I: I Strata Description Indicator Method Method Method: Finite to coarse Strata Description Indicator Method: Finite to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and flint. (TOPSOIL) Indicator Indicator Indicator Indicator Indicator Strata Description Indicator Indicator Indicator Indicator Indicator Strata Descriptin Indit Indit Indit Indit	TŁ	-			hiro	-			-				ΕΤΝΙΛΙ		31 E
Indication: 90° Sheet 1 of 1 Indication: 90° Sheet 1 of 1 Method, Plant and Crew Casing Groundwater Scale: 1:2 From (m) Type Plant list Crew Depth (m) Demt Demt String Resided Resided N Approved By: 1:2 0.00 1.20 Dynamic Windowless Sampling Archwy Competitor R.1/A.8 1.30 110 1.30 - - 0.80 20 Resided Mapproved By: 1.20 Start Date: 21/0 Strata Description Legend Resided Marker Samples and Testing Samples and Testing Dark brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and flint. (TOPSOIL) 0.20 10.58 Image: Construct and the angular to sub-rounded of sandstone and quartzite. 1.20 9.58 Fine base 50 65 65 67 65 67 65 67 65 67 65 67 65 67 65 67 65 67 65 </td <td>TETRA TECH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>IAOD</td> <td></td> <td></td> <td></td> <td></td> <td>TINAL</td> <td>VVS</td> <td>515</td>	TETRA TECH							IAOD					TINAL	VVS	515
From (m) Type Plant Lued Crew Depth (m) Dem (m)					Diamator	6	ina		Inclination		roundurate				
Strata Description Reduced (mode) Water (mAOD) Inst / Level (m) Samples and Testing Dark brown slightly gravelly slightly clayey fine to coarse sAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. (TOPSOIL) 0.20 10.58 0.10 651 Doepti (m) 0.60 0.53 0.30 - 0.50 83 Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) 0.20 10.58 0.60 0.54 Soft brown mottled with light brown slightly sandy CLAY. Sand is fine to coarse. (ALLUVIUM) 1.20 9.58 1.20 0.5 57T(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 angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) 2.60 8.18 2.60 0.11 57T(C) 2.00m, N=2 (2.2/0,0,0,2) Grey and light brown slightly sandy fine to coarse. (ALLUVIUM) 7.78 3.00 7.78 3.00 7.78	0.00 1.20	Type Inspection Pit	Plant Used t Hand Excavated	R.L/A.B	Depth (m) Diam (mm) 1.20 300	Depth(m)	Diam (mm)	(m)	Casing Sealer (m) (m)	d Rose To (m)	Time (mins)	21	Remarks	Checked By: Approved By: Start Date:	1:50 NEB JC 21/04/2021 21/04/2021
Sudd Description Level (m) Backfill Depth (m) Ref Tests / Results Dark brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and flint. (TOPSOIL) TOP 0.20 10.58 0.20 0.10 0.20 0.30 0.50 83 Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) 0.20 10.58 0.60 0.60 0.54 0.70 1.20 9.58 0.70 1.20 0.6 551 Soft brown mottled with light brown slightly sandy CLAY. Sand is fine to coarse. (ALLUVIUM) 1.20 9.58 1.20 9.58 587(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) 1.90 8.88 1.90 8.18 2.60 8.18 2.60 D11 Dark grey from 2.5m bg/ Grey and light brown slightly sandy fine to coarse. (ALLUVIUM) 2.60 8.18 2.60 8.18 2.60 D11									Water	Inst /		_	Samples a		21/04/2021
angular to sub-rounded of sandstone and flint. (TOPSOIL) 0.20 10.58 0.20 0.20 0.20 0.30 - 0.50 83 Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine to coarse sub-angular to sub-rounded of sandstone and quartzite. (ALLUVIUM) 0.20 0.60 E54 Soft brown mottled with light brown slightly sandy CLAY. Sand is fine to coarse. (ALLUVIUM) 1.20 9.58 1.20 D6 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) 1.90 8.88 2.00 D9 SPT(C) 2.00m, N=2 (2.2/0,0,0,2) Dark grey from 2.5m bg/ Care y and light brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) 2.60 8.18 2.60 D11 Care y and light brown slightly sandy fine to coarse. (ALLUVIUM) 3.00 7.78 3.00 D12 SPT(C) 3.0m, S0 (4.750 fm 205mp)						Legend	Depth (m)	Level (mAOD)	Level (m)	Backfill	Depth (m)	Ref		Tests / Results	
Soft brown mottled with light brown slightly sandy CLAY. Sand is fine to coarse. (ALLUVIUM) I.20 9.38 1.20 9.38 1.20 9.38 1.20 9.38 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	angular to sub-roo TOP Brown slightly gra to sub-rounded of	avelly very clar	dstone and flint. (TOPSC yey fine to coarse SAND	DIL)	/		0.20	10.58			0.20 0.30 - 0.50 0.60	D2 B3 ES4			1-
Loose grey slightly clayey sandy fine and medium sub-angular to sub-rounded of quartzite 1.90 8.88 1.90 8.88 GRAVEL. Sand is fine to coarse. (ALLUVIUM) 1.90 8.88 2.00 09 B10 Dark grey from 2.5m bg/ quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) 2.60 8.18 2.60 01 01 Grey and light brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. 00 7.78 00 01		ed with light b	orown slightly sandy CLA	AY. Sand is fine to coa	arse.		1.20	9.58			1.50	ES7	SPT(C) 1.20m, N=3	(2,2/2,1,0,0)	
Dark grey room 2.5m big Grey and light brown slightly sandy fine to coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM) 2.60 8.18 3.00 7.78 3.00 D1 SPT(C) 3.00 S0 (4.750 for 295mm)	GRAVEL. Sand is t (ALLUVIUM)	fine to coarse		ed of quartzite						2.10 - 2.50	B10	SPT(C) 2.00m, N=2	(2,2/0,0,0,2)	2 -	
	Grey and light bro quartzite GRAVEL	own slightly sa Sand is fine	to coarse.		f sandstone and								SPT(C) 3.00m, 50 (4	,7/50 for 295mm)	3 -
															4 -
															5 · 6 ·
															7 -
															8 -
															9 -
											_				10
Observations / Remarks Sampling Runs Hammer Inform 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			eter gas/groundwater m	nonitorina pipe installe	ed to 3.00m hal					From (m)					
$\frac{120}{2.00} = \frac{20}{3.00} = \frac{120}{87} = \frac{120}{90} = \frac{120}{100} = \frac$			geo, groundwater II		to 5.00m bgl.								1 1		
Project Num 784-B026														-	

		Project:		Easting:	47837		n Details Northing:		j.56		Status	Borehole	Number		
	TE RA TECH	Location:	Newark-on-Tren	t, Nottinghamsh	ire	Level:	10.52r		Depth:	4.00m			FINAL	ws	17
	NA TECH	Client:	Highways Englar	nd		Logger:	SC		Type: Inclinatio	WS n: 90°				Sheet	1 of 1
		Meth	od, Plant and Crew		Diameter		sing			Gr	oundwate	r		Scale:	1:50
om (m) 0.00 1.20	To (m) 1.20 4.00 D	Type Inspection Pi lynamic Windowless		Crew R.L/A.B R.L/A.B	Depth (m) Diar (mm 1.20 300 3.00 110 4.00 97	3.00	Diam (mm) 110	Strike C (m) 1.80	Casing Seale (m) (m) 	d Rose To (m) 1.30	Time (mins) 20		Remarks	Checked By: Approved By: Start Date:	NEB JC 21/04/202
						_							Samples a	Finish Date:	21/04/202
			Strata Description	ı		Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Depth (m)	Ref	Samples a	Tests / Results	
		ntly gravelly cla quartzite. (TOF	ayey fine to coarse SAND. SOIL)	. Gravel is fine to coa	rse angular to		0.20	10.32			0.10 0.20 0.30 - 0.50	ES1 D2 B3			
Brown	mottled w /IUM)	vith orangish b	rown very clayey fine to	coarse SAND.			-				0.60	ES4			
	-	dark brown vei	ry gravelly sandy CLAY. S	Sand is fine to coarse.			0.80	9.72			0.80 - 1.20	B5			
ALLUV							-								
											1.20 1.20 - 1.65	U U766			
							-								
			ability along the stand stand	Live CAND Crevel is	fine and		1.90	8.62			1.80	ES7			
nediur	m angular	tly gravelly slig to sub-rounde	ghtly clayey fine and med ed.	Jum Sand. Gravel is	nne and						2.00	D8	SPT(C) 2.00m, N=36	6 (3,5/7,9,10,10)	
ALLU\	/IUM)										2.40	D9			
			and brown slightly sand	ly fine to coarse angu	lar to sub-		2.60	7.92			2.60 - 3.00	B10			
LLU	/IUM) [`]		Sand is fine to coarse.				-				3.00 - 4.00	B11	SPT(C) 3.00m, N=16	(7 7/4 4 4 4)	
Во	orehole colla	apsed from 3.0m	to 4.0m bgl. Borehole termina	ated							5.00 1.00		31 1(c) 5.00m, N=10	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			0m - Terminated with bo				4.00	6.52							
serva	tions / Re	emarks									Se	ampling	9 Runs	Hamme	ı ır Informatic
			hole backfilled with bent	onite.						From (m)	To (m) Di	iam (mm)	Recovery % Rem		er Informatio
			hole backfilled with bento	onite.						From (m) 1.65 2.00					er Informati
			hole backfilled with bento	onite.			-				To (m) Di	iam (mm)	Recovery % Rem	arks Serial No	er Informati

TETRA TECH Logger: SC Type: WS	VS23 eet 1 of 1 1:50 NEB JC 27/04/202 27/04/202
Client: Highways England Method, Plant and Crew Diameter Casing Groundwater Scale: From (m) Type Plant Used Crew Depth (m) Diam Diam Diam Diam Diam Diam Diam Diam Checked By: 0.00 1.20 Inspection Pit Hand Excavated RL/A.B 1.20 300 1.00 0 1.30 - - 1.10 20 Approved By 1.20 4.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B 3.00 1.00 1.30 - - 1.10 20 Approved By Strata Description Legend Depth (m) Reduced (mAOD) Water (mAOD) 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) 0.30 9.89 0.30 9.89 0.10 0.0 0.10 0.2 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. 0.30 9.89 0.30 9.89 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30<	1:50 NEB JC 27/04/202
Method, Plant and Crew Diameter Casing Groundwater Scale: From (m) To (m) Type Plant Used Crew Depth (m) Diameter Casing Sealed Rese To Time Remarks Checked By: 0.00 1.20 1.20 Inspection Pit Hand Excavated R.L/A.B 1.20 300 10 0 1.30 - - 1.10 20 Approved By 1.20 4.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B 1.20 300 10 - - 1.10 20 Approved By Start Date: Finish Date: Finish Date: Finish Date: Finish Date: - - 1.10 20 Samples and Testing Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of Legend Depth (m) Ref - - 0.10 0.10 0.2 Est / Results Oar out-out-out-out-out-out-out-out-out-out-	1:50 NEB JC 27/04/202
Indition Type Plain Excesse Cleve Depth (m) (mm) (m)	JC 27/04/202
And and a part of and a part of any backward of and any backward of any backwar	27/04/202
Strata Description Legend Depth (m) Reduced (mAOD) 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) 0.30 9.89 0.10 0.2 ESI 1 0.30 0	27/04/202
Strata Description Legend Depth (m) Inst / Level (mAOD) Water Level (mAOD) Inst / Backfill Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. (TOPSOIL) 0.30 9.89 0.10 0.2 Soft brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. 0.30 9.89 0.30 9.89	
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.	
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.	
sandstone and guartzite. Sand is fine to coarse.	
(ALLUVIUM)	
0.90 ES4	
1.20 D5 SPT(C) 1.20m, N=8 (2,2/2,2,2,2)	
1.50 ES5 1.60 - 1.90 B7	
Dark grey from 2.0m bg/ 2.00 - 2.45 U768	
Medium dense grey slightly sandy fine to coarse angular to sub-rounded of sandstone and dense grey slightly sandy fine to coarse.	
(ALLUVIUM) Borehole collapsed back to 3.0m bg/	
3.50 - 4.00 B10	
Yellowish brown from 2.8m bg/ 4.00 6.19	
EOH at 4.00m - Terminated with borehole collapsed	·
	1
	nmer Informatio
1.20 2.00 87 100 2.45 3.00 87 100	al No. Energy Ratio
	roject Number
	4-B02694

		Project: A	46 Newark - No		Location D									Status		Borehole N	lumber	
	TŁ			t, Nottinghamsh	ire		Easting: Level:	47885 10.22r		Nort Dep	thing: th:	35436 4.00m			FINAL		wsa	95
TET		н	ighways Englar				Logger:	SC		Туре		WS						
			ant and Crew		Diar	neter		sing	1	Incli	ination		roundwa	tor			Sheet 1 Scale:	of 1 1:50
From (m)	To (m)	Туре	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Strike C (m)	Casing (m)	Sealed (m)				Remarks		Checked By:	NEB
0.00 1.20	1.20 4.00	Inspection Pit Dynamic Windowless Samplin	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	1.20 4.00	300 110	4.00	110	1.40	-	-	1.20	20				Approved By:	JC
																	Start Date: Finish Date:	27/04/2021 27/04/2021
									Reduced	14/2	ater	Inst /			Si	amples and		2770 172021
			Strata Descriptior	1			Legend	Depth (m)	Level (mAOD)			Backfill	Depth (m	1) Ref		Te	ests / Results	
Dark b sub-ro TOP	prown slig ounded of	ghtly gravelly clayey f f sandstone and quar	ine to coarse SAND zite. (TOPSOIL)	. Gravel is fine to coa	irse angu	ılar to		0.25	9.98			14 - 14 A	0.10 0.20 0.30 - 0.5	ES1 D2 60 B3				
		prown sandy CLAY. Sa	nd is fine to coarse			/					•		0.60	ES4				-
¢	,						· · · · · · · · · · · · · · · · · · ·						0.80 - 1.2					
																		1 -
										\Box	Zŀ		1.20 1.20 - 1.6	D6 U767				
											•		1.65 - 2.0	ю вя				-
								2.00	8.22		•		2.00 - 2.8	80 B9				2 -
sub-ro	unded of	gravelly very clayey fi f sandstone and quar	ne to coarse SAND. zite.	Gravel is fine to coa	rse angu	lar to		2.00	0.22		•		2.00 - 2.0					2
(ALLU)	VIUM)										•							-
								2.80	7.42		•							
quartz	ite GRAV	ndy slightly clayey fin /EL. Sand is fine to co	e to coarse angular arse.	to sub-rounded of sa	andstone	and					•		3.00 - 4.0	00 B10				3 -
(ALLU) No	VIUM) o clay fron	m 3.1m bgl						-			•							
Ba	orehole col	llapsed back to 3.5m bgl								- •							-	
		EOH at 4.00m -	Terminated with bo	orehole collapsed			<u></u>	4.00	6.22		ľ	<u> </u>	2					4 -
																		5 -
																		-
																		6 -
																		-
																		-
																		7-
																		-
																		8 -
																		-
															9 -			
															-			
								-			ļ		-					10 -
Observa	ations / F	Remarks					1			L	\dashv			Samplin	g Runs		Hammer	Information
1. Upor	n complet	tion 50mm diameter o	gas/groundwater me	onitoring pipe installe	d to 3.5	0m bgl.						From (m) 1.65	To (m)	Diam (mm) 87		Remarks	s Serial No.	Energy Ratio %
												2.00	2.00 3.00 4.00	87 87 87	100 75 65			
																	Project	Number
																	784-B	026948

Project: A46 Newark - Northern Bypass			Locatio	n Detail	s			Status		Borehole	e Number
Location: Newark-on-Trent, Nottinghamshire	Easting Level:		03.27 imAOD	Northing Depth:	: 3544 4.00r			FINAL		W	526
TETRA TECH Client: Highways England	Logger			Туре:	WS				•		20
		acina		Inclinatio		`roundurat	<u></u>				1 of 1
rom (m) To (m) Type Plant Used Crew Depth (m) D (r 0.00 1.20 Inspection Pit Hand Excavated R.L/A.B 1.20 1	viam nm) Depth(n 300 3.00 110 77	asing n) Diam (mm) 110	Strike (m) 1.20	Casing Seal (m) (m	ed Rose T	(mins)		Remarks) بر ع	Scale: Checked By: Approved By: Start Date: Finish Date:	1:50 NEB JC 29/04/2021 29/04/2021
			Reduced	Water	Inst /			Sa	amples and		25/01/2021
Strata Description Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse angular	Legend to	I Depth (m	i) Level (mAOD)	Level (m)	Backfill	Depth (m)	Ref		Te	ests / Results	
sub-rounded of sandstone and quartzite. (TOPSOIL) TOP Brown slightly gravelly very clayey fine to coarse SAND. Gravel is fine and medium sub-		0.30	9.85			0.10 0.30 - 0.70	ES1				
angular to sub-rounded of sandstone and quartzite. (ALLUVIUM)			0.45			0.80	ES4				
Firm orangish brown and brown slightly sandy slightly gravelly silty CLAY. Gravel is fine t coarse angular to sub-rounded of sandstone and quartzite GRAVEL. Sand is fine to coars (ALLUVIUM) No clay from 1.2m bgl		1.00	9.15			1.20 1.20 - 1.70	D5) B6	SPT(C) 1.	20m, N=16 (4	,4/4,4,4,4)	1
	، <u>م</u>					1.80	ES7				
						2.00	D8) B9	SP1(C) 2.	00m, N=12 (2	,3/3,3,3)	2
						3.00	D10	SPT(C) 3.	00m, N=17 (4	,4/4,4,5)	3
Borehole collapsed back to 3.5m bgl EOH at 4.00m - Terminated with borehole collapsed		- - - - - - - - - - - - - - - - - - -	6.15								4
											5
											6
											7
											8
											9
											10
bservations / Remarks							Samplin	ig Runs		Hamm	er Information
. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 3.50m	bgl.				From (m)	To (m)	Diam (mm)) Recovery %	Remarks		
					1.20 2.00 3.00	2.00 3.00 4.00	87 87 77	100 65 0			
										Proj	ect Number
										784-	B026948

Project: A46 Newark - Northern Bypass		E	asting:	L 479072	ocation	n Deta Northir		354538	3.91		Status		Borehole	e Number
Location: Newark-on-Trent, Nottinghams	hire		evel: .ogger:	9.97m SC		Depth: Type:		5.00m WS			FINAL	-	W	528
Client: Highways England			.099011	50		Inclina							Sheet	1 of 1
Method, Plant and Crew	Diameter		Cas	-			[oundwat	er			Scale:	1:50
Trom (m) To (m) Type Plant Used Crew 0.00 1.20 Inspection Pit Hand Excavated R.I./A.B	Depth (m) Dia (m) 1.20 30 5.00 1	im)	0epth(m) 4.00	Diam (mm) 110	Strike C (m)	asing S (m)	ealed (m)	Rose To (m)	Time (mins)		Remarks		Checked By:	NEB
1.20 5.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B	5.00 1:	10											Approved By: Start Date:	JC 23/04/2021
													Finish Date:	23/04/2021
Strata Description			Legend	Depth (m)	Reduced Level	Water Level (r		Inst / Backfill			s	amples and		
Dark brown slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse	arco angular t				(mAOD)	Level (i			Depth (m)				Tests / Results	
sub-rounded of quartzite. (TOPSOIL) TOP									0.10 0.20 - 0.40	ES1 B2				
Soft brown and orangish brown slightly gravelly sandy CLAY. Gravel is fine a	and medium			0.50	9.47									
angular to sub-rounded of sandstone and quartzite. Sand is fine to coarse. (ALLUVIUM)		<u>ة.</u> م							0.70 0.80 - 1.20	ES3 B4				
		- - - - -												1
		- 							1.20 - 1.65	5 U765				
		- 												
Slightly sandy from 1.8m bgl		- - 0 - 0							1.80	ES6				
əngnəy sanay non xənn oğl		- 							2.00	D7	SPT(C) 2.	00m, N=4 (2	2,2/1,1,1,1)	2
Grey from 2.2m bgl									2.20 - 2.70) B8				
		- 4 - 6 - 1												
Dark grey and slight organic odour from 2.8m bgl		19 19 1							2.80	ES9				
		- • • •							3.00 3.00	D10	SPT(C) 3.	00m, N=14 ((2,2/2,2,5,5)	3
		10 6 10							3.20 - 3.60) B11				
		- • • •												
Loose dark grey slightly gravelly fine to coarse SAND. GRAVEL fine and med sub-rounded of sandstone and quartzite.	lium angular t	.0		3.70	6.27				3.80	D12				
(ALLUVIUM) Borehole collapsed back to 4.0m bgl. Unable to advance passed 5.0m bgl		4.									SPT(C) 4.	00m, N=4 (2	2,1/1,1,1,1)	4
burenole collapsed back to 4.011 byl. Onable to advance passed 3.011 byl			•						4.20 - 4.80) B13				
Brown to light grey from 4.7m bgl														
EOH at 5.00m - Terminated with refusal		-	<u></u>	5.00	4.97		22	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	5.00	D14	SPT(C) 5.	00m, N=8 (3	3,3/2,2,2,2)	5
														<i>.</i>
														6
														7
														,
														8
														g
							┢							10
bservations / Remarks				L		I				Samplin	ig Runs		Hamm	er Informatior
. Groundwater not observed. . Upon completion exploratory hole backfilled with bentonite.							Fr	rom (m)	To (m)	Diam (mm)) Recovery %	Remar	rks Serial N	b. Energy Ratio
													Proj	ect Number
													784-	B026948

Location: Newark-on-Trent, Nottinghamshire Lient: Highways England Level: 10.08mAOD Depth: 3.00m Level: 10.08mAOD Depth: 3.00m FINAL FINAL WS29 Logger: SC Type: WS Inclination: 90° Sheet 1 of 1 Sheet 1 of 1 Sheet 1 of 1 Sheet 1 of 1 Scale: 1:5 Trom (m) To (m) Type Plant Used Crew Depth (m) Diam Clion Crew Depth (m) Diam Depth(m) Crem Crew Crew Depth (m) Crem Crew Crew Crew Crew Crew Depth (m) Crem Crew Crew Crew Crew Crew Crew Crew Crew		Project:	A46 Newark - No	orthern Bypass					n Details		0		Status		Borehole	Number
Client: Highways England Ubgel: S Tryle: N3 Inclination: 90* Stret 1 of 1 Method, Plant and Crew Diameter Casing Groundwater Scale: 1:5 From (m) To (m) Type: Mathod, Plant and Crew Depth (m) Diameter Casing Groundwater Scale: 1:5 120 3.00 Dynamic Windowless Sampling Mathod Results Checked By: NE 120 3.00 Dynamic Windowless Sampling Mathod Results Checked By: NE 120 Strata Description Results Strata Description Results Samples and Testing Strata Description Legend Depth (m) Refused Used Used Used Used Oark brown slightly gravelly slity fine to coarse (TOPSOIL) Oarse No. Results O.30 9.78 0.30 65 Your Oarse Sand is fine to coarse. Instrument in coarse.	TŁ	Location:	Newark-on-Tren	t, Nottinghamsh	ire	Easting: Level:			-				FINAL		ws	29
Method, Plant and Crew Diameter Casing Groundwater Scale: 1:5 From (m) Type Far Used Crew Depth (m) Diam Scale Time Scale: 1:5 1.20 3.00 Dynamic Windowless Sampleg Achway Compettor RUAB 3:00 710 710 1:30	TETRA TECI		Highways Englar	nd		Logger:	SC							-	Chaot	1 -6 1
Indicate Liter Liter <thliter< th=""> <</thliter<>		Metho	d, Plant and Crew		Diameter	Cas	sing		Inclinatio		oundwat	er		:		1 01 1
1.20 3.00 pyramic Windowless Sampling Activacy Competitor R.L/A.B 3.00 110 Image: Competitor in the image: Competiting in the image: Competitor in the image: Co					(mm)		(mm)	(m)	Casing Seale (m) (m)	(m)	(mins)		Remarks			NEB
Image: Strata Description Image:				R.L/A.B	3.00 110	5.00	110	1.50		0.50	20					JC 26/04/2021
Strata Description Legend Depth (m) Net of test (m) Test / test (m) 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) 0.30 9.78 9.78 0.30 0.40 0.30 ES1 0.20 0.20 0.20 0.40 0.30 B3 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) Ref 0.30 E54 0.40 0.30 B3 Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) 1.40 1.80 8.28 8.28 8.28 5PT(C) 1.20m, N=4 (1,0/1,1,1,1) Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) 1.80 8.28 2.00 0.79 2.00 0.79 5PT(C) 1.20m, N=10 (3,2/3,2/2,3) Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) 2.00 1.80 7.88 2.00 0.79 5PT(C) 1.20m, N=10 (3,2/3,2/2,3) 5PT(C) 2.00m, N=10 (3,2/3,2/2,3) Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) 2.00 2.00 1.80 5PT(C) 2.00m, N=10 (3,2/3,2/2,3) 5PT(C) 2.0																26/04/2021
Dark brown slightly gravelly slity fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) Dark brown slightly gravelly slightly sandy slity CLAY. Gravel is fine to coarse angular to sub-rounded of sandstone. Sand is fine to coarse. Dark brown slightly gravelly slightly sandy gravelly slightly slig			Strata Descriptior	ı		Legend	Depth (m)	Level	Water	Inst /		1	Sa			
sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP Soft brown slightly gravelly slightly sandy slity CLAY. Gravel is fine to coarse angular to sub- rounded of sandstone. Sand is fine to coarse. (ALLUVIUM) Medium dense becoming dense brown slightly sandy GRAVEL. (ALLUVIUM) No clay from 2.0m bg/ Sand blowing up casing from 3.0m to 2.0m bgl. Sampler jammed in casing at 3.0m bgl. 200 7.00 Fine control of the control of t	Dark brown slig	ahtlv aravellv silt			e angular to			(mAOD)				_		т	ests / Results	
Sort brown slightly sandy slity LLAT. Gravel is time to coarse angular to sub- rounded of sandstone. Sand is fine to coarse. (ALLUVIUM) 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.	sub-rounded of TOP	f sandstone and o	quartzite. Silt is fine to c	oarse. (TOPSOIL)	-		0.30	9.78			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 0.90 E54 1.80 8.28 2.00 D5 SPT(C) 1.20m, N=4 (1,0/1,1,1,1)	rounded of san			avel is fine to coarse	angular to sub-	· · · · · ·					0.40 - 0.80					
Medium dense becoming dense brown slightly sandy GRAVEL. 1.80 8.28 8.28 1.20 D5 SPT(C) 1.20m, N=4 (1,0/1,1,1) Medium dense becoming dense brown slightly sandy GRAVEL. 1.80 8.28 8.28 8.20 1.00 D5 SPT(C) 1.20m, N=4 (1,0/1,1,1) Medium dense becoming dense brown slightly sandy GRAVEL. 1.80 8.28 1.80 8.28 1.80 B6 SPT(C) 1.20m, N=4 (1,0/1,1,1) No clay from 2.0m bgl 2.00 2.00 2.00 2.00 B7 SPT(C) 2.00m, N=10 (3,2/3,2,2,3) Sand blowing up casing from 3.0m to 2.0m bgl. Sampler jammed in casing at 3.0m bgl. 2.00 7.08 1.00 1.00 B7 Sand blowing up casing from 3.0m to 2.0m bgl. Sampler jammed in casing at 3.0m bgl. 2.00 7.08 1.00 1.00 1.01	(ALLUVIUM)					· · · · · ·					0.90	ES4				
Medium dense becoming dense brown slightly sandy GRAVEL. 1.40 - 1.80 B6 (ALLUVIUM) No clay from 2.0m bgl 2.00 2.00 2.00 2.00 2.00 2.00 2.00 957(C) 2.00m, N=10 (3,2/3,2,2,3) Sand blowing up casing from 3.0m to 2.0m bgl. Sampler jammed in casing at 3.0m bgl. 2.00 7.00 P7 P58 PFT(C) 2.00m, N=10 (3,2/3,2,2,3)											1.20	D5	SPT(C) 1.2	20m, N=4 (1,	,0/1,1,1,1)	1
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.																
(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. Image: Constraint of the second s								0.00								
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.	(ALLUVIUM)	-	brown slightly sandy GR	RAVEL.			1.80	ö.28		(MIIIN	2.00	D7	SPT(C) 2.0	00m, N=10 (3	3,2/3,2,2,3)	2
EOH at 3.00m - Terminated with borehole collapsed 7.08 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	No clay from		0m to 2.0m bgl. Sampler jaı	mmed in casing at 3.0m	bgl.											
EOH at 3.00m - Terminated with borehole collapsed 7.08 5.00 7.08 5.00 N.N-27 (5.466,13.0.5.13)																
EOH at 3.00m - Terminated with borehole collapsed																
		EOH at 3.00	m - Terminated with bc	orehole collapsed			3.00	7.08					SPT(C) 3.0	00m, N=37 (!	5,6/6,10,10,11)	3
																4
																т
																5
																6
																7
																8
																9
																9
											-					10
Dbservations / Remarks Sampling Runs Hammer Inform	bservations / F	Remarks				I	L				ـــــــــــــــــــــــــــــــــــــ	l Samplin	g Runs		Hamme	r Information
. Upon completion exploratory hole backfilled with bentonite. From (m) To (m) Dam (mm) Recovery % Remarks Serial No. Energy 1.20 2.00 87 100	Upon complet	tion exploratory h	ole backfilled with bent	onite.										Remark	s Serial No.	Energy Ratio
										-		-				
Project Numb															Proje	ct Number
784-B0269															784-	8026948

	Project:	A46	ö Newark - I	Northern Byp	pass		Easting		L 479179	ocation		etails thing:		04 72		Sta	atus		Bo	orehole N	lumber
æ	Location:	Nev	vark-on-Tre	nt, Nottingh	namshire	e	Level:		9.91mA		Dep	-	5.00n			FI	NAL			WS3	31
TETRA TECH	Client:	Hig	hways Engl	and			Logger	:			Typ Incl	e: lination	WS							Sheet 1	of 1
	Metho	od, Plan	nt and Crew			Diameter	С	asing	ıg		Inci			roundwa	l ter				Scale:	Sheet I	1:50
n (m) To (m)	Туре		Plant Used	Crew	De	epth (m) Dia (mr 1.20 30	n) Depth(m) 4.00	" (Diam (mm) 110	Strike C (m) 1.50	Casing (m)	Sealed (m)	d Rose To (m) 1.20	Time (mins) 20		Rema	arks		Checked		NEB
						4.00 11 5.00 77)												Approve Start Da		JC 26/04/20
																			Finish Da		26/04/20
		Str	rata Descripti	on			Legend	i De	epth (m)	Reduced Level		ater el (m)	Inst / Backfill				Sa		d Testing		
ark brown slight	tly gravelly silt			Gravel is fine to	o coarse a	angular to				(mAOD)		(iii)		0.10	i) Re				Tests / Res	ults	
b-rounded of sa	andstone and	, quartzit	e. Silt is fine to	coarse. (TOPSC	OIL)	<u>j</u> .				0.54				0.20 - 0.3	80 B2	2					
oft brown slightly sandstone and				e and medium ar	ngular to s	sub-rounde		•	0.40	9.51				0.40 - 0.8	30 B3	5					
LLUVIUM)								-						0.90	ES	4					
														1.20	DS	5 SPT	T(C) 1.2	0m, N=4 (I	0,1/1,1,1,1)		
Grey from 1.3n			tala la c	11 - C					1.50	8.41		Z		1.50 - 1.8	80 Ве						
nd medium angu				elly fine to coarse d quartzite.	se sand. C	aravel is fin	e					•									
LLUVIUM)														1.90 2.00	ES D8	7 3 SPT	T(C) 2.0	0m, N=5 (:	1,1/1,2,1,1)		
												•		2.20 - 2.6	50 B9						
												•		1							
Gravel is fine to	o coarse from 2.8	8m bgl										•		1							
												•		3.00	D1	0 SPT	T(C) 3.0	0m, N=22	(3,3/4,6,6,6	5)	
			se angular to s [,]	ub-rounded of sa	andstone	and quartzi	te		3.40	6.51		•		3.40 - 3.8	30 B1	1					
AVEL. Sand is f _LUVIUM)	fine to coarse.											•									
Borehole collap	osed back to 4.0r	n bql										•		4.00	D1	2 SPT	T(C) 4.0	0m, N=20	(6,6/6,6,4,4	ŧ)	
		.9												4.20 - 4.8	30 B1	3					
	EOH at 5.00	m - Tei	rminated with	borehole collap	psed			<u> </u>	5.00	4.91				5.00	D1	4 SPT	T(C) 5.0	0m, N=5 (:	3,2/2,1,1,1)		
								-				+		-							
ervations / Ren											1				Sampl	ing Ru	uns			Hammer	Informat
pon completior	n 50mm diame	eter gas	s/groundwater	monitoring pipe	installed t	to 4.00m b	gl.					F	From (m) 1.20 2.00	To (m) 2.00 3.00	Diam (m 87 87	im) Reco 1	overy % 100 80	Rema	irks	Serial No.	Energy Ra
													2.00 3.00 4.00	3.00 4.00 5.00	87 87 77	1	80 100 60		F	.	
														1	1	1			1	Project	Alumbar
																				Troject	Number

Project: A46 Newark - Northern Bypass	Easting:			n Detai		15.05		Status	Borehole	Number
Location: Newark-on-Trent, Nottinghamshire	Level:	10.16		Depth:	6.00r			FINAL	ws	646
Client: Highways England	Logger:	SC		Type: Inclinatio	WS on: 90°				Sheet	1 of 1
Method, Plant and Crew Diameter		ising				iroundwate	er		Scale:	1:50
rom (m) To (m) Type Plant Used Crew Depth (m) Dial 0.00 1.20 Inspection Pit Hand Excavated R.L/A.B 1.20 300	1) Depui(iii) Diam (mm) 110	Strike ((m) 3.50	Casing Seal (m) (m	led Rose T 1) (m) 0.00	D Time (mins)		Remarks	Checked By:	NEB
1.20 6.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B 4.00 110 5.00 67)	110	5.50		0.00				Approved By:	JC
6.00 57									Start Date: Finish Date:	13/04/2021 13/04/2021
			Reduced					Samples ar		
Strata Description	Legend	Depth (m)	Level (mAOD)	Water Level (m)	Inst / Backfill	Depth (m)	Ref		Tests / Results	
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 Dark grey to black from 0.2m bg/						0.10 0.10 0.20 - 0.50	D2 ES1 B3			
						1.00 1.00 1.00 - 1.20	D5 ES4			1
						1.50	B6 D7	SPT(C) 1.20m, N=2	(1,0/0,1,0,1)	
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		1.80 2.20	8.36 7.96			2.00 2.00	D8 ES9	SPT(C) 2.00m, N=0	(0,0/0,0,0,0)	2
Cream slightly sandy clayey fine and medium sub-angular of sandstone GRAVEL. Sand is fine to coarse. (MADE GROUND)		8				2.30 2.30	D11 ES10			
MGR Very strong chemical odour between 2.2 and 2.5m bg/		2.50	7.66			2.60	D12			
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) (ALLUVIUM) Slight chemical odour from 2.5mbg/						3.00 3.20 - 3.60	ES13 B14	SPT(C) 3.00m, N=27	(3,4/6,6,7,8)	3
No chemical odour from 3.5m bgl										
						4.00	D15	SPT(C) 4.00m, N=33	(9,8/9,8,8,8)	4
Very gravelly from 4.0m bgl						4.00 4.20 - 4.50	ES16		())))))	
						5.00	D18	SPT(C) 5.00m, N=34	(6 7/8 8 9 9)	Į.
						5.20 - 5.60		3FT(C) 5.0011, N=34	(0,770,0,5,5)	-
Weak grey MUDSTONE from 5.8m bgl						5.90	D20		(5 7/0 44 40 40)	
EOH at 6.00m - Terminated with borehole collapsed		- 6.00	4.16					SPT(C) 6.00m, N=45	(5,7/9,11,13,12)	(
		1				1				1
bservations / Remarks			•			1		g Runs		er Informatio
. Upon completion exploratory hole backfilled with bentonite.					From (m)	To (m) E 2.00 3.00	Diam (mm) 87 87	Recovery % Remains	arks Serial No	. Energy Ratio
					1.20 2.00 3.00 4.00	4.00	87 67	90 70 95 60		
					5.00	6.00	57	80	Proje	ect Number
									784-	B026948

		Project:	A46 Newark - Nor	thern Bypass		:		ocatio			25576			Status		Boreho	le Number
	TŁ	Location:	Newark-on-Trent,	, Nottinghamsh	nire	Easting: Level:	48027 9.08m		Norti Dept	-	35576 5.00m			FINAL		w	/S48
TETI	RA TECH	I Client:	Highways England	8		Logger:	SC		Туре		WS						
			od, Plant and Crew		Diameter	Car	sing		Inclir	nation:		roundwate	or.			Scale:	et 1 of 1 1:50
From (m)	To (m)	Туре	Plant Used	Crew	Depth (m) Diam	Depth(m)	Diam	Strike C (m)	Casing (m)	Sealed (m)			,	Remarks		Checked By:	NEB
0.00 1.20	1.20 5.00 I	Inspection Pit Dynamic Windowless S	Hand Excavated Sampling Archway Competitor	R.L/A.B R.L/A.B	1.20 300 5.00 110	5.00	(mm) 110	2.80	-	-	0.00	0				Approved By:	JC
																Start Date:	13/04/2021
								Reduced						Sa	imples an	Finish Date: d Testing	13/04/2021
			Strata Description			Legend	Depth (m)	Level (mAOD)	Wa Level		Inst / Backfill	Depth (m)	Ref			Tests / Results	
Dark b	rown slig	htly gravelly silt	y fine to coarse SAND. Gr nd quartzite. Silt is fine to	avel is fine to coars	se sub-angular		1				9 - CS	0.10	ES1 D2				
TOP			elly slightly silty SAND. Co				0.40	8.68				0.20	02				
to coar	rse. Grave	el is fine to coar	se angular to sub-rounded	d of various litholog	gies. (MADE							0.60 0.70 - 1.00	ES3 B4				
groui Mgr	ND)											0.70 - 1.00	BLK4				
							2					1.20	D5	SPT(C) 1.2	20m, N=5 (1	1,2/2,1,1,1)	1
										•		1.50	ES6				
							2			•		1.50 - 2.50	B7				
										•	<u>ا</u> :			SPT(C) 2.0	00m, N=24	(2,3/4,6,7,7)	2
			h brown gravelly fine to co	oarse SAND. Grave	l is fine to		2.20	6.88									
coarse (ALLU\		to sub-rounded	of sandstone and flint.									2.50 2.50 - 2.80	ES8 B9				
Ve	erv aravellv	from 2.8m bgl								Z		2.00 2.00					
	, , , ,											3.00	D10	SPT(C) 3.0	00m, N=16	(4,4/3,4,4,5)	3
-																	
	own from . ightly grave	3.4m bgi elly from 3.6m bgl										3.50 3.50 - 3.80	ES11 B12				
														007(0) 4			
												4.00	D13	SPT(C) 4.0	00m, N=8 (1	1,2/2,2,2,2)	4
												4.50 - 4.80	B14				
												1.50 1.00					
			Terminated with her	abala collanaci			5.00	4.08				5.00	D15	SPT(C) 5.0	00m, N=19	(2,2/4,6,3,6)	5
		EOH at 5.00	m - Terminated with bor	enole collapsed													
																	6
																	7
																	8
																	9
																	10
	tions / P													a D		11	
	itions / R completi		eter gas/groundwater mor	nitoring pipe installe	ed to 2.00m bgl.					F	From (m)	To (m)		g Runs Recovery %	Remai		No. Energy Ratio %
	-				5						1.20 2.00 3.00	2.00 3.00 4.00	87 87 87	90 95 70 80			
											4.00	5.00	87	80		Pr	oject Number
																784	-B026948

		Project:	A46 Newark - No	rthern Bypass				ocatio						Status		Borehole	Number
	TŁ	Location:	Newark-on-Trent		ire	Easting: Level:	48033 8.81m		North Depth		355871 0.70m			FINAL		w	550
TET	RA TECH	Client:	Highways Englan			Logger:	SC		Type:		WS			1110/12			
				u	Diamatan	6			Inclin	ation:							1 of 1
From (m)	To (m)	Туре	d, Plant and Crew Plant Used	Crew	Diameter Depth (m) Diam (mm)	Depth(m)	Diam (mm)	Strike C (m)	Casing (m)	Sealed (m)		Time (mins)		Remarks		Scale: Checked By:	1:50 NEB
0.00	0.70	Inspection Pit	Hand Excavated	R.L/A.B	0.70 (mm) 0.70 300		(1111)	()	()	(,	(,	(((((()))))))))))))))))))))))))))))))))			,	Approved By:	JC
																Start Date: Finish Date:	14/04/2021 14/04/2021
								Reduced						Sa	mples and		14/04/2021
			Strata Description			Legend	Depth (m)	Level (mAOD)	Wate Level (Inst / Backfill	Depth (m)	Ref		Te	ests / Results	
to sub	orown sligh -rounded c	tly gravelly silty of sandstone an	r fine to coarse SAND. Go d flint. Silt is fine to coar	ravel is fine to coars se. (TOPSOIL)	e sub-angular							0.10 0.20	ES1 D2				
\ coarse	prown sand e. Gravel is	ly gravelly angu fine to coarse a	ular to sub-rounded of sa angular to rounded of sa	ndstone COBBLES. ndstone. (MADE GR	Sand is fine to OUND)		0.40 0.50 0.70	8.41 8.31 8.11				0.60	D3				
to sub	ish brown s -rounded c	slightly gravelly of quartzite. (M/	fine to coarse SAND. Gr ADE GROUND)	avel is fine to coars	e sub-angular		0.70	0.11									1
MGR		EOH at 0.7	'0m - Terminated with s	service located]												
																	2
																	3
																	5
																	4
																	5
																	6
																	7
																	8
																	g
																	••
Oher		marke								-			ame!			11	10
	ations / Re n completio		ole backfilled with arisin	gs.						F	rom (m)	г – т		g Runs Recovery %	Remark		er Information
										F							
																Proj	ect Number
																784-	B026948

		Project:	A46 Newark - No	thern Bypass					ocatio						Status		Borehol	e Number
	ŦŁ	Location:	Newark-on-Trent	, Nottinghamsh	ire		Easting: Level:	48034 5.18m		Dep	rthing: oth:	3558 5.00r			FINAL		ws	50A
TET	RA TECH	I Client:	Highways Englan	d			Logger:	SC		Тур		WS						
			od, Plant and Crew	-	Diamet	or	(a)	sing		Inc	lination		Groundwate	r			Shee	t 1 of 1 1:50
From (m)	To (m)	Туре	Plant Used	Crew	Danth (m)	Diam	Depth(m)	Diam (mm)		Casing (m)	Sealed (m)			:1	Remarks		Checked By:	NEB
0.00 1.20	1.20 5.00	Inspection Pit Dynamic Windowless S	Hand Excavated Sampling Archway Competitor	R.L/A.B R.L/A.B	3.00	<u>mm)</u> 300 110 77	3.00	110	2.80	-	-	0.00	0			ļ	approved By:	JC
					5.00	67											itart Date:	14/04/2021
															Sa	mples and	inish Date:	14/04/2021
			Strata Description				Legend	Depth (m)	Reduced Level (mAOD)		/ater el (m)	Inst / Backfill	Depth (m)	Ref			sts / Results	
Dark b	rown slig	htly gravelly silt	y fine to coarse SAND. Gr	avel is fine to coars	e sub-angul	ar		1			2	9	0.10	D2				
to sub TOP	-rounaea	of sandstone ar	nd flint. Silt is fine to coar	se. (TOPSOIL)									0.10	ES1				
Light t	rown gra	avelly slightly silt	y angular to sub-rounded se angular to sub-rounde	of sandstone COBB	BLES. Silt is	fine		0.50 0.60	4.68 4.58				0.70	ES3				
MGR			/ fine to coarse SAND. Gr	•		· /							0.70 - 0.90	B4				
			lint. (MADE GROUND)	aver is fine and filed	nunn angulai	10		1.10	4.08				1.20	D5	SPT(C) 1.2	0m, N=8 (1,2	2/2.2.2.2)	1 -
Ge	eo-grid lay	er encountered at l ttled with grev s	0.8m bgl lightly sandy CLAY. Sand	is fine (MADE GRO	UND)			-								, (_,.	,	
MGR		m 1.4m bql	inginity sandy CLAT. Sand	IS THE. (MADE GRO	UND)								1.50 1.60 - 1.90	ES6 B7				
/ VC	, sana non	1 Uyi											2.00	D8	SPT(C) 2 C	0m, N=14 (1	2/3 3 4 1	2
Oranci	ch brow	a slightly group!	/ fine to coarse SAND. Gr	avel is fine to coord	angular ta			2.20	2.98		•		2.00		511(0) 2.0	, n=14 (1	(דודוטוט <u>ו</u> -ו	2
sub-ro	unded of	sandstone and	quartzite.		e aliguiai to								2.50	ES9				
(ALLU) G		m 2.3m bgl											2.60 - 2.90	B10				
Madiu					-f			3.00	2.18				3.00	D11	SPT(C) 3.0	0m, N=27 (6	,6/6,9,7,5)	3 -
GRAVE	L. Sand	is fine to coarse.	sandy fine to coarse angu	liar to sub-rounded	or quartzite						•		3.20 - 3.70	B12				
(ALLU)	/10™)										•							
											•							
											•		4.00	D13	SPT(C) 4.0	0m, N=25 (2	,4/6,4,6,9)	4 -
													4.50 - 5.00	B14				
		EOH at 5.00	m - Terminated with bo	ehole collapsed				5.00	0.18						SPT(C) 5.0	0m, N=20 (5	,6/5,4,5,6)	5 -
																		6 -
																		7.
																		7
																		8
															[9
															[
											╞		-		[10 -
	ations / R							•					1 1	-	ig Runs			ner Information
1. Upor	complet	ion 50mm diame	eter gas/groundwater mo	nitoring pipe installe	ed to 4.00m	bgl.					╞	From (m) 1.20 2.00	To (m) D 2.00 3.00	liam (mm 87 87) Recovery %	Remarks	Serial N	lo. Energy Ratio %
												2.00 3.00 4.00	3.00 4.00 5.00	87 77 67	90 80 70			
																	Pro	ject Number
																	784	-B026948

Project: A46 Newark - Northern Bypass	Easting:	48040		n Detail: Northing:		62.01		Status	Borehol	e Number
Location: Newark-on-Trent, Nottinghamshire	Level:	8.46m		Depth:	5.00r			FINAL	w	S54
TETRA TECH Client: Highways England	Logger:	SC		Type: Inclinatio	WS				Choo	t 1 of 1
Method, Plant and Crew Diameter	Cas	sing				Groundwat	er		Scale:	1:50
From (m) To (m) Type Plant Used Crew Depth (m) Diam (mm) 0.00 1.20 Inspection Pit Hand Excavated R.L/A.B 1.20 300 1.20 5.00 Dynamic Windowless Sampling Archway Competitor R.L/A.B 5.00 110	Depth(m) 5.00	Diam (mm) 110	Strike ((m) 1.10	Casing Seale (m) (m)	ed Rose T) (m) 0.00	o Time (mins) 0		Remarks	Checked By: Approved By: Start Date:	NEB JC 14/04/2021
									Finish Date:	14/04/2021
Strata Description	Legend	Depth (m)	Reduced Level (mAOD)	water	Inst / Backfill	Depth (m)	Ref	Samples a	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)		0.20	8.26		291-51	0.10	D2 ES1			
TOP Light brown slightly sandy gravelly angular to sub-rounded of sandstone COBBLES. Sand is fine to coarse. Gravel is fine to coarse angular to rounded of sandstone. (MADE GROUND)		0.20	8.06			0.60	ES3			
MGR Soft brown mottled with light grey slightly sandy silty CLAY. Sand is fine. (MADE GROUND) MGR <i>Geo-grid layer at 0.6m bgl</i>						0.80 - 1.20) B4	SPT(C) 1.20m, N=2	(1,0/1,0,1,0)	1
						1.50 1.60 - 1.90	ES5 B6			
						2.00	D7	SPT(C) 2.00m, N=1	(0,0/0,0,0,1)	2
Soft grey mottled with black clayey SILT. (ALLUVIUM)		2.60	5.86			2.50	D8			
	×_×_	-				3.00 3.00 3.20 - 3.60	D10 ES9 B11	SPT(C) 3.00m, N=1	(0,0/0,0,0,1)	3
Dark grey from 3.6m bgl						* 4.00	D12	SPT(C) 4.00m, N=1	(0,0/0,0,0,1)	4
		4.80	3.66			4.80 - 5.00	B13			
Brown slightly sandy fine to coarse angular to rounded of sandstone and quartzite GRAVEL. Sand is fine to coarse. (ALLUVIUM)		5.00	3.46			4.60 - 5.00	015			5
EOH at 5.00m - Terminated with unable to advance										
										6
										7
										8
										0
										9
		-				-				10
Dbservations / Remarks 1. Upon completion 50mm diameter gas/groundwater monitoring pipe installed to 5.00m bgl.					From (m)	1		g Runs Recovery % Rer	Hamm narks Serial M	her Information
					1.20 2.00 3.00	2.00 3.00 4.00	87 87 87 87 87	100 80	Send P	Linergy Rdu0 %
					3.00 4.00	4.00 5.00	87 87	100 40	Pro	ject Number
									784	-B026948

Projec	t: A46 Newark - No	orthern Bypass				L	.ocatio	n Details	S			Status		Borehole N	lumber
Locat					asting: .evel:	481082 10.59n		Northing: Depth:	35604 6.70m			FINAL		WS5	7
TETRA TECH Client					.ogger:	SC		Type:	WS						
	1ethod, Plant and Crew		Diamet	or	Cas	ina		Inclinatio		oundwate	or		Scale	Sheet 1	of 1 1:50
om (m) To (m) Ts 0.00 1.20 Inspec 1.20 6.70 Dynamic Windo	oe Plant Used ion Pit Hand Excavated	Crew R.L/A.B R.L/A.B	Depth (m) (1.20 3.00	Nie we	Depth(m) 3.00	Diam (mm) 110	Strike (m) 1.70	Casing Seale (m) (m)	d Rose To		-1	Remarks	Chec Appr Start	 ked By: oved By: Date: h Date:	NEB JC 13/04/2021
	Strata Description	n			Legend	Depth (m)	Reduced Level	Water Level (m)	Inst / Backfill			Sa	mples and Tes	-	
Dark brown slightly gravel	y silty fine to coarse SAND. C	Gravel is fine to coa	rse sub-angul	ar N			(mAOD)			Depth (m) 0.10	Ref D2		Tests /	Results	
o sub-rounded of sandsto "OP 1edium dense to loose or:	ne and quartzite. Silt is fine t ngish brown slightly silty gr ub-rounded of sandstone and <i>n bg/ m bg/</i> from 1.6m bg/	to coarse. (TOPSOIL	-)			0.80	9.79			0.10 0.20 - 0.60 1.00 1.00 - 1.20 1.50 2.00 - 2.50 2.60 - 3.00	ES1 B3 D5 ES4 B6 ES7 D8 B9	SPT(C) 2.0)m, N=20 (3,6/4,)m, N=5 (1,1/2,1)m, N=41 (5,6/7,	,1,1)	1 2 3
Gravelly from 4.2m bgl										3.50 3.50 - 4.00 4.50	D11 B12 D13)m, N=6 (1,2/1,2)m, N=7 (1,1/2,1		
										5.50 - 6.00 6.00 - 6.50		SPT(C) 6.0	Om, N=21 (1,1/9,	6,3,3)	
E	OH at 6.70m - Terminated v	with refusal		*		6.70	3.89			6.70	D16	SPT(C) 6.70	0m, 50 (12,13/50	for 235mm)	
															:
												, Dunc			
servations / Remarks										ς	amnlin			Hammer	Informati
	ory hole backfilled with bent	conite.							From (m)	To (m)		Recovery %	Remarks	Hammer Serial No.	Energy Rat
	ory hole backfilled with bent	onite.							1.20 2.00 3.00	To (m) E 2.00 3.00 4.00	Diam (mm)	Recovery % 80 100 80	Remarks	-	1
oservations / Remarks Upon completion explora	ory hole backfilled with bent	conite.							1.20 2.00	To (m) [2.00 3.00	-	Recovery % 80 100	Remarks	Serial No.	-

		Project:	A46 Newark - Nor	thern Bypass			Easting:	48177	ocation		etails	35640	4.63		Status		Borehol	e Number
тет		Location:	Newark-on-Trent,	-	hire		Level: Logger:	18.34r SC	nAOD	Dep Туре		5.00m WS			FINAL		W	S64
		Client:	Highways England	1			Logger.	50			ination					-	Shee	t 1 of 1
	1	Metho	d, Plant and Crew			neter		sing					roundwat	er			Scale:	1:50
rom (m)	To (m) 1.20	Type Inspection Pit	Plant Used Hand Excavated	Crew R.L/A.B	Depth (m) Diam (mm) 0 110	Depth(m) 3.00	Diam (mm) 110	Strike C (m) 2.80	Casing (m) -	Sealed (m)	I Rose To (m) 0.00	Time (mins) 0		Remarks		Checked By: Approved By:	NEB JC
1.20	5.00	Dynamic Windowless S	ampling Archway Competitor	R.L/A.B	3.00 4.00 5.00	77 67											Start Date:	12/04/2021
															S	imples and	Finish Date:	12/04/2021
			Strata Description				Legend	Depth (m)	Reduced Level (mAOD)		ater el (m)	Inst / Backfill	Depth (m)	Ref			ests / Results	
Dark b to sub TOP	rown slig -rounded	phtly gravelly silt I of sandstone ar	y fine to coarse SAND. Gra Id quartzite. Silt is fine to	avel is fine to coar coarse. (TOPSOIL)	se sub-ar	ngular							0.10 0.10 0.20 - 0.50	D2 ES1 B3				
Mediur Gravel (ALLU)	is fine to	becoming dense o coarse sub-ang	orangish brown slightly o ular to sub-rounded of sa	gravelly fine to coand duart	irse SANE zite.	D.		0.55	17.79				0.70 0.80 - 1.20	ES3 B5	SPT(C) 1.2	20m, N=22 (3,3/5,6,5,6)	1
		to yellowish brown y between 1.55 and											1.80	ES6				
6	and in com	is and aroual is fin	e to medium from 2.5m bgl										2.00 2.30 - 2.60	D7 B8	SPT(C) 2.0	00m, N=24 (3,3/4,6,7,7)	2
	nu is coai.	se anu graveris nin	e to metalam nom 2.5m bgi										3.00	D9	SPT(C) 3.0	00m, N=33 (5,5/6,8,8,11)	3
OI	rangeish b	rown from 3.5m bg	/										3.30 - 3.60	B10				
Bc	orehole col	llapsed back to 3.9n	n bgl after SPT at 5.0m bgl										4.00 4.30 - 4.60	D11 B12	SPT(C) 4.0	00m, N=47 (6,10/10,12,13,12)	4
		EOH at 5.00	m - Terminated with bore	ehole collapsed				5.00	13.34		104//04		5.00	D13	SPT(C) 5.0	00m, N=35 (6,13/10,8,10,7)	5
																		6
																		7
																		8
																		9
																		10
)bserva	ations / R	Remarks									+		9	 Samplin	g Runs		Hamm	er Information
			nole backfilled with bentor	nite.								From (m)	To (m)	Diam (mm)	Recovery %	Remar		
												1.20 2.00 3.00 4.00	2.00 3.00 4.00 5.00	87 77 77 67	100 100 80 80			
													1				Pro	ect Number

(Project:	A4	46 Newa	ark - No	orthern By	pass			Easting:	l 481989	Location 9.13		etails hing:		5.13		Status	;	В	orehole I	Number
		Locatior H				t, Notting	hamshi	ire		Level: Logger:	18.55n SC	nAOD	Dep Type		3.00m WS			FINA	-		WS	65
		Client:	Hi	lighways	s Englan	d				LUggei.	30			a. nation							Sheet 1	of 1
				lant and C		1			neter Diam	Cas	sing Diam	Chrillen C		Control	GI Rose To	roundwa _{Time}	ter			Scale:		1:50
om (m) 0.00 1.20	To (m) 1.20 3.00	Type Inspectior Dynamic Windowle	n Pit	Hand E	nt Used Excavated Competitor	Crew R.L/A. R.L/A.	.В	Depth (m) 0.00 1.20 3.00	01am (mm) 100 300 87	Depth(m) 2.00	(mm) 110	Strike C (m) 2.60	Casing (m) -	(m)	(m) 0.00	0		Remarks		Checke Approv Start D	ed By:	NEB JC 09/04/20
																				Finish [09/04/20
			S	Strata De	escription	1				Legend	Depth (m)	Reduced Level (mAOD)	Wa Leve	ater I (m)	Inst / Backfill	Depth (m) Ref	s	amples a	Tests / Re	-	
o sub-		htly gravelly of sandstone						e sub-an	gular		0.20	18.35				0.10 0.10 0.20 - 0.5	D2 ES1			1000 / 110		
		ghtly gravelly		silty SANI	D. Gravel i	is fine to coa	arse sub-a	angular I	to sub-	×××												
ALLUV	(IUM)	dstone and br				G		Cuercel	. 6	×, ×, > , ×, ×	0.80	17.75				0.60 0.80 - 1.0	ES4 0 B5					
coar		g dense orang angular to sub					e sand.	Graver	sine							1.20	D6	SPT(C) 1	.20m, N=7	(1,1/1,2,2,	2)	
Gra	avel is fin	e to medium fro	vm 1.4m b	bgl												1.50 - 2.0	0 B7					
Un	able to a	lvance casing pa	assed 2.0	Om bgl												2.00 2.00	D9 ES8	SPT(C) 2	.00m, N=2	3 (3,5/6,5,6	,6)	
		57		-												2.00						
Gra Bo	avelly froi rehole co	m 2.6m bgl llapsed back to 2	2.6m bgl	,													510					
		EOH at 3.	.00m - T	Terminate	ed with bo	rehole colla	apsed				3.00	15.55		4				SPT(C) 3	.00m, N=3	2 (2,4/6,7,1	0,9)	
																-						
		Remarks											<u> </u>				 Samplir	ng Runs			Hammer	Informa
pon	complet	tion explorato	ry hole b	backfilled v	with bento	onite.									From (m) 1.20 2.00	To (m) 2.00 3.00	Diam (mm 87 87	n) Recovery %	6 Ren	narks	Serial No.	Energy R
															2.00	3.00	87	100		ŀ	De-ir -	+ N/
																					Projec	t Numbe
																					784-B	0269

		Project: A4	6 Newark - No	rthern Bypass					ocatio						Status	Boreho	ole Number
	TŁ			, Nottinghamsh	ire		Easting: Level:	48194 18.23r		Nor Dep	thing:	35656 3.90m			FINAL	v	IS66
TET		н			in e		Logger:	SC		Тур		WS				•	500
			ghways Englan	la						Incl	ination						et 1 of 1
From (m)	To (m)	Method, Pla Type	Plant Used	Crew	Diar Depth (m)	Diam	Ca: Depth(m)	Diam	Strike ((m)	Casing (m)	Sealed (m)	d Rose To	Time (mins)	ter	Remarks	Scale: Checked By:	1:50 NEB
0.00 1.20	1.20 3.90	Inspection Pit Dynamic Windowless Sampling	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	1.20 3.00 3.90	(mm) 300 110 77	3.00	(mm) 110	2.50	-	-	0.00	0			Approved By:	JC
					3.90											Start Date:	12/04/2021
									Reduced						Samples	Finish Date: and Testing	12/04/2021
		S	strata Description				Legend	Depth (m)	Level (mAOD)		ater el (m)	Inst / Backfill	Depth (m) Ref		Tests / Results	
to sub- TOP Mediur coarse quartzi (ALLUV	n dense SAND. (te. /IUM)	ghtly gravelly silty fine d of sandstone. Silt is f becoming dense orang Gravel is fine to coarse welly from 1.8m bg/ ravel from 2.0m bg/	to coarse SAND. G ine to coarse. (TOP gish brown slightly	ravel is fine to coars SOIL) silty/clayey slightly g -rounded of sandsto	ravelly f	-		3.90				Backfill	Depth (m 0.10 0.10 0.20 - 0.5 0.90 1.00 1.30 - 1.6 2.00 2.30 - 2.6 3.00 3.30 - 3.6 3.90	0 D2 ES1 B3 ES4 D5 0 B6 D7 ES8 0 B9 D10		13 (3,3/3,4,3,3)) 4 - - - - - - - - - - - - - - - - - -
																	8 -
																	-
																	-
																	- - 9 –
																	-
																	-
																	-
								1			╞		1				10 -
		Remarks					•	•	•	1			1	Samplin	<u> </u>		mer Information
1. Upon	comple	tion 50mm diameter g	as/groundwater mo	onitoring pipe installe	ed to 3.0	0m bgl.					╞	From (m) 1.20 2.00	To (m) 2.00 3.00 3.90	Diam (mm) 87 87 77	Recovery % Re 100 100 100	marks Seria	No. Energy Ratio %
												2.00 3.00	3.90	6/ 77	100		oioct Numb
																	oject Number
																784	-B026948

~		Project:	A46	5 Newark	- Nort	thern I	Bypass			Easting:	48218	ocation		etails	35668	1.02		Status		Boreł	nole Nu	umber
		Location:	Nev	wark-on-T	Frent,	Nottin	nghamsl	hire		Level:	19.49r		Dep	th:	3.40m			FINAL	-	۱	NS67	7
		Client:	Hig	hways En	ngland	I				Logger:	SC		Type Incli	e: ination:	WS : 90°					Sh	eet 1 c	of 1
		Meth	nod, Plan	nt and Crew				Dia	meter	Cas	sing					roundwa	ter			Scale:		1:50
om (m) 0.00	To (m) 1.20	Type Inspection P		Plant Used Hand Excava	ated	R.I	Crew L/A.B	Depth (n 1.20	300	Depth(m) 3.00	Diam (mm) 110	Strike C (m)	Casing (m)	Sealed (m)	Rose To (m)	Time (mins)		Remarks		Checked By:		NEB
1.20	3.40 D	ynamic Windowless	s Sampling	Archway Comp	oetitor	R.I	L/A.B	3.00 3.40	110 87											Approved By Start Date:		JC 09/04/2021
																				Finish Date:		09/04/2021
			St	rata Descri	iption					Legend	Depth (m)	Reduced Level	Wa	ater	Inst / Backfill			s	amples an	d Testing		
)orle br	own click	ntly gravelly sil				wol ic fir	a to coor		aular	- 		(mAOD)	Leve	el (m)		Depth (m 0.10) Ref			Tests / Results		
OP .oose to ingular ALLUVI <i>Slig</i> <i>Gra</i>	o dense e to sub-n IUM) <i>whtly grave</i>	of sandstone a orangish brow ounded of san ally from 1.2m bg reen 2.3 and 2.4µ vel from 2.8m bg	n gravell Idstone a I/ m bg/	ly fine to coa	arse SAN				2		0.90	18.59		9 9 9 9		0.10 0.30 - 0.6 0.70 1.00 1.30 - 1.6 1.70 2.00 2.30 - 2.6 3.00	ES4 D5 0 B6 ES7 D8	SPT(C) 1. SPT(C) 2.		1,1/1,1,2) (5,8/10,9,10,9) (4,5/6,7,8,8)		2
																-						
	tions / Re	marka												+						112-	nmor T	
sei vat		emarks on 50mm diam	neter gas	s/groundwat	ter moni	itoring p	oipe install	ed to 2.5	i0m bgl.						From (m)	To (m)	Diam (mn	ng Runs	Rema			nformati Energy Ra
Upon (-						-					H				100 80				
Upon															2.00	3.00	87	80				
Upon (1.20 2.00 3.00	2.00 3.00 3.40	87 87 87	80 100		F	Project I	Number
Upon (2.00 3.00	3.40	87 87	80 100				Number

		Project:	A46 Newark - No	thern Bypass			Continue.		_ocatior				2.00		Status			Borehole	Number
	Ŧ	Location:	Newark-on-Trent	, Nottinghamsl	hire		Easting: Level:	48214 19.05r		Dep	thing: oth:	35670 4.00m			FINAL	-		ws	68
TETR	RA TECH	H Client:	Highways Englan	d			Logger:	SC		Тур		WS						Cheat	1 -6 1
		Metho	od, Plant and Crew		Diar	neter	Cas	sing		Inci	lination		roundwat	er			Scale	Sheet	1 01 1
From (m)	To (m)	Туре	Plant Used	Crew	Depth (m)) Diam (mm)	Depth(m)	Diam (mm)	(m)	Casing (m)	Sealed (m)	i Rose To (m)	Time (mins)		Remarks		_	ked By:	NEB
0.00 1.20	1.20 4.00	Inspection Pit Dynamic Windowless S	Hand Excavated Sampling Archway Competitor	R.L/A.B R.L/A.B	1.20 3.00 4.00	300 110 87	3.00	110	3.10	-		0.00	0					oved By:	JC
																		Date: Date:	09/04/202 09/04/202
					_				Reduced		ater	Inst /			S	amples	and Test		
			Strata Description				Legend	Depth (m)	Level (mAOD)			Backfill	Depth (m)	Ref			Tests /	Results	
Dark bi to sub-	rown slig rounded	htly gravelly silt of sandstone ar	y fine to coarse SAND. Gr nd quartzite. Silt is fine to	avel is fine to coars coarse. (TOPSOIL)	se sub-an)	gular							0.10 0.10	D2 ES1					
TOP			gravelly slightly clayey fir			fine to		0.40	18.65				0.50	D3					
	sub-ang		ded of sandstone and qua										0.60	ES4					
								1					0.80 - 1.20	B5					
		elly from 1.2m bgl						1							SPT(C) 1.	20m, N=	16 (2,2/2,3	1,6,5)	
Gra	avelly bet	ween 1.3 and 1.6m	n bgl										1.50	D6					
Ve	ery rare gra	avel from 1.7m bgl											1.60	ES7					
		lvance casing pass											2.00 - 2.50	B8	SPT(C) 2.	00m, N=	22 (4,5/5,5	i,6,6)	
211																			
													2.50	D9					
-		- 2 1 / /											3.00 - 3.50	B10	SPT(C) 3.	00m, N=	20 (3,4/4,5	i,5,6)	
		n 3.1m bgl llapsed back to 3.3i	m bal								ŝ		2						
				o coorco onquiar tr		ndod		3.60	15.45				3.50	D11					
of sand	dstone ar	nd quartzite.	rse SAND. Gravel is fine t	o coarse angular to	o sud-rou	naea	•												
(ALLUV	/1011)	EOH at 4.00	m - Terminated with bo	ehole collapsed				4.00	15.05			YANY	4.00	D12	SPT(C) 4.	00m, N=	27 (4,5/6,6	6,7,8)	
													1					T	1
	tions / R		hole backfilled with bento	nite							-+	From (m)	<u>г г</u>	-	g Runs Recovery %		emarks	Hamme Serial No.	r Informatio
. 0001	complet	.on exploratory									╞	1.20 2.00 3.00	2.00 3.00	87 87 87 77	100 90 85		una NS	Jendi IVO.	
												3.00	4.00	77	85			Proie	ct Number
																		_	B02694
													1		1	1		1 704 1	

	Project:	A46 Newark - Nort				Easting:	48232	Location 7.13		e tails thing:		5.54		Status		Borehole	
TETRA TEC	Location: H Client:	Newark-on-Trent, Highways England	-	hire		Level: Logger:	19.08r SC		Dep Тур		6.00m WS			FINAL		WS	69
				Dia					Incl	ination						Sheet	
rom (m) To (m)	Meth _{Type}	Plant and Crew	Crew	Diar Depth (m	Diam	Cas Depth(m)	Diam	Strike C	Casing	Sealed	I Rose To	Time	:1	Remarks	Sca Che	le: ecked By:	1:50 NEB
0.00 1.20 1.20 6.00	Inspection Pi Dynamic Windowless	it Hand Excavated	R.L/A.B R.L/A.B	1.20 5.00 6.00) (mm) 300 110 77	5.00	(mm) 110		(m) 3	(m) -	(m) 0.00	(mins) 0			App	proved By: rt Date:	JC 08/04/2021
										L				Sa	Fini The sing the second the second seco	sh Date:	08/04/2021
		Strata Description				Legend	Depth (m)	Reduced Level (mAOD)		ater el (m)	Inst / Backfill	Depth (m)	Ref	34		/ Results	
Brown slightly angular to sub	gravelly slightly -rounded of same	silty fine to coarse SAND. G dstone and quartzite. Silt is	ravel is fine to co fine to coarse. (T	arse sub- OPSOIL)			0.20	18.88				0.10	D2 ES1			,	
TOP Medium dense	orangish brown	sandy fine to coarse sub-a			/							0.20 - 0.50	B3 ES4				
quartzite and s (ALLUVIUM)	sandstone GRAV	EL. Sand is fine to coarse.										0.70 - 1.00	B5				
																	1
Sliahtly ara	velly from 1.3m bgi	/												SPT(C) 1.2	0m, N=11 (1,2/	3,2,3,3)	
5 / 5	, ,											1.50 1.50	D7 ES6				
												2.00 - 2.20	B8	SPT(C) 2.0	0m, N=17 (3,4/-	1,4,4,5)	2
												2.50	D9				
												2.50					
												3.00 - 3.20	B10	SPT(C) 3.0)m, N=14 (2,4/	3,4,4,3)	
												3.50	D11				
Gravelly be	tween 3.7 and 3.9n	m bgl															
												4.00 - 4.20	B12	SPT(C) 4.0	0m, N=14 (2,3/	3,4,3,4)	
												4.50	D13				
												5.00 - 5.20	B14)m, N=15 (2,2/		
												5.00 - 5.20	DIT	3F1(C) 3.0	JIII, N=13 (2,2/	(ד,ד,ד,נ	
												5.50	D15				
	EOH at 6.00	0m - Terminated with bore	hole collapsed				6.00	13.08						SPT(C) 6.0	0m, N=19 (3,3/	5,4,5,5)	
			·														
convotione ()	Bomarka									-						Harris	r Informatic
servations / I Upon comple		hole backfilled with benton	ite.							\neg	From (m)	To (m) D	Diam (mm)	g Runs Recovery %	Remarks	Serial No.	r Informatic
										Ī	1.20 2.00 3.00	2.00 3.00 4.00	87 87 87	100 100 70			
											4.00 5.00	5.00 6.00	77 77	95 60		Proje	ct Number
																784-1	B02694

Project: A46 Newark - Northern Bypass	Easting:	48210	ocatio	n Deta Northir		702.71		Status	Borehol	e Number
Location: Newark-on-Trent, Nottinghamshire	Level:	18.57n		Depth:	-			FINAL	W	570
TETRA TECH Client: Highways England	Logger:	SC		Type:	WS tion: 90°				Shoo	t 1 of 1
Method, Plant and Crew Diameter	Cas	sing		Inclina		Groundwa	ater		Scale:	1:50
om (m) To (m) Type Plant Used Crew Depth (m) Diam (mm) 0.00 1.20 Inspection Pit Hand Excavated R.I/A.B 1.20 300 1.20 4.90 Dynamic Windowless Sampling Archway Competitor R.I/A.B 3.00 4.90 110 77	Depth(m) 3.00	Diam (mm) 110	Strike ((m) 3.70	Casing Se (m)	ealed Rose (m) (m - 0.0) (mins)		Remarks	Checked By: Approved By: Start Date:	NEB JC 12/04/2021
									Finish Date:	12/04/2021
Strata Description	Legend	Depth (m)	Reduced Level	Water Level (n	n) Backf			Sample	es and Testing	
Dark brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse sub-angular			(mAOD)			0.10	D2		Tests / Results	
o sub-rounded of sandstone and quartzite. Silt is fine to coarse. (TOPSOIL) TOP		0.40	18.17			0.10	ES1			
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.						0.50 - 0	80 B3			
ALLUVIUM)						0.80	ES4 D5			
						1.00		SPT(C) 1.20m, N	l=37 (9,6/6,9,11,11)	
						1.30 - 1	60 B6			
						1.70	ES7			
						2.00	D8	SPT(C) 2.00m, N	N=25 (4,3/3,4,7,11)	:
Slightly gravelly from 2.2m bgl						2.30 - 2	90 B9			
Gravelly from 2.8m bgl										
						3.00	D10	SPT(C) 3.00m, N	N=45 (4,6/9,11,11,14)	
Very gravelly between 3.3 and 3.5m bgl						3.30 - 3	60 B11			
					-					
						4.00	D12	SPT(C) 4.00m, N	N=30 (3,4/6,4,9,11)	
						4.30 - 4	60 B13			
						1.50				
EOH at 4.90m - Terminated with refusal		4.90	13.67			4.90	D14	SPT(C) 4.90m, 5	60 (7,14/50 for 265mm)	
										:
servations / Remarks Jpon completion exploratory hole backfilled with bentonite.					-	n) T- ()	· ·	ng Runs		er Informati
איז					From (1 1.20 2.00 3.00		Diam (mn 87 87 77	100 100	Remarks Serial N	o. Energy Rat
					3.00 4.00	4.00 4.90	77 67	100 70	Pro	ect Number
									/84	B02694

		Project: A4					Locatio						Status		Boreh	ole Nu	umber		
Π	F		ewark-on-Trent		ire		Easting: Level:	48237 18.83r		Nor Dep	thing:	35681 4.00m			FINAL		,	NS7:	1
TETRA	TEC	-			in e		Logger:	SC		Тур		WS							-
			ighways Englan	a						Incl	lination							eet 1 o	
From (m) To	o (m)	Method, Pla Type	Plant Used	Crew	Diame Depth (m)	Diam	Ca: Depth(m)	Diam	Strike (m)	Casing (m)	Sealed (m)		Time (mins)	ter	Remarks		Scale: Checked By:		1:50 NEB
0.00 1	1.20	Inspection Pit Dynamic Windowless Samplin	Hand Excavated Archway Competitor	R.L/A.B R.L/A.B	1.20 2.00 3.00	(mm) 300 110	2.00	(mm) 110	3.70	-	-	0.00	0				Approved By	:	JC
					4.00	87 77											Start Date: Finish Date:		08/04/2021 08/04/2021
									Reduced						Sa	imples and			00/04/2021
		9	Strata Description				Legend	Depth (m)	Level (mAOD)	1000	'ater el (m)	Inst / Backfill	Depth (m) Ref			Tests / Results		
Dark brow angular to TOP	vn slig o sub-	htly gravelly slightly s rounded of sandstone	silty fine to coarse S. and quartzite. Silt i	AND. Gravel is fine t is fine to coarse. (TC	to coarse s OPSOIL)	ub-							0.10 0.20 - 0.4	ES1 B2					
Medium d		to dense orangish bro ar to sub-angular of s			. Gravel is	fine		0.40	18.43				0.50	D3					-
(ALLUVIU		j											0.70 0.80 - 1.2	ES4 85					-
															SPT(C) 1 7	0m N=24	(1,3/4,6,6,8)		1-
													1.50		511(0) 1.2		1,5,1,0,0,0,0		-
													1.50	D6					-
													2.00 2.00 - 2.3	ES7 0 B8	SPT(C) 2.0	00m, N=40 ((5,9/11,10,11,8)		2 -
																			-
													2.50	D9					-
Grave	ny iron	n 2.8m bgl											3.00 - 3.3	0 B10	SPT(C) 3.0	00m, N=26 ((3,3/5,5,7,9)		3 -
													3.50	D11					-
													5.50						-
		EOH at 4.0	00m - Terminated w	vith refusal				4.00	14.83				4.00	D12	SPT(C) 4.0	10m, 50 (8,1	.7/50 for 260mm)	4 -
																			-
																			-
																			-
																			5
																			-
																			-
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																			9 -
																			-
																			-
								-											10 -
Observatio	ns / P	emarks									-			Samplin	a Runs		Han	ımer Tr	nformation
-		ion exploratory hole t	oackfilled with bento	onite.								From (m)	To (m)	Diam (mm)	Recovery %	Remar		al No.	Energy Ratio %
												1.20 2.00 3.00	2.00 3.00 4.00	87 87 77	100 100 60				
																	P	roject l	Number
																	78	4-B0	26948

	_	Project:	A46 Newark - Nor	thern Bypass			Easting:	48243	ocation		etails thing:	356940	0.72		Status		Borehole	e Number
TETRA		Location:	Newark-on-Trent,	-	hire		Level: Logger:	19.19r SC		Dep	oth:	5.00m WS			FINAL		W	572
		Client:	Highways England								ination	: 90°					Sheet	: 1 of 1
<u> </u>			od, Plant and Crew			neter Diam	Cas	bing Diam	Strike C	Casing	Sealed		oundwate	er			Scale:	1:50
0.00 1	To (m) 1.20 5.00 Dy	Type Inspection Pit mamic Windowless	Plant Used Hand Excavated Sampling Archway Competitor	Crew R.L/A.B R.L/A.B	Depth (m 1.20 5.00	(mm) 300 110	Depth(m) 5.00	(mm) 110	3.10	.asing (m) -	(m)	(m) 0.00	(mins) 0		Remarks	4	Checked By: Approved By:	NEB JC
										T						F	Start Date: Finish Date:	08/04/2021 08/04/2021
			Strata Description				Legend	Depth (m)	Reduced Level		ater el (m)	Inst / Backfill			Sa	mples and		
Dark brov	wn slight	tly gravelly slig	ghtly silty fine to coarse SA Istone and quartzite. Silt is	ND. Gravel is fine	to coarse	e sub-			(mAOD)				Depth (m) 0.10	Ref ES1		16	ests / Results	
TOP Medium d	dense be	comina loose	orangish brown gravelly fi	ne to coarse SANI		is fine		0.30	18.89				0.40 - 0.70	B2				
to coarse (ALLUVIU		gular to sub-rc	ounded of sandstone and q	uartzite.									0.80 0.80 0.90 - 1.20	D4 ES3 B5				1
													1.50	D6	SPT(C) 1.2	0m, N=12 (2	,2/3,3,3,3)	
Slight	tly graveli	ly from 2.2m bgl											2.00 2.00 - 2.30	ES7 B8	SPT(C) 2.0	0m, N=17 (3	,4/4,4,5,4)	2
													2.50	D9				
													3.00 - 3.30	B10	SPT(C) 3.0	0m, N=13 (4	,3/3,4,3,3)	3
Grave	elly from .	3.5m bgl											3.50	D11				
Slight	tly gravell	ly from 4.1m bgl											4.00 - 4.30	B12	SPT(C) 4.0	0m, N=9 (1,	1/1,2,3,3)	4
		slightly clayey	fine and medium SAND.					4.70	14.49				4.80	D13				
(ALLUVIU Boreh		<i>inated at 5.0m b</i> EOH a	<i>gl. Sand blown up casing to 3.2</i> at 5.00m - Terminated wit	2 <i>m bgl</i> th refusal		/		5.00	14.19						SPT(C) 5.0	0m, N=34 (4	,7/7,8,9,10)	5
																		6
																		7
																		8
																		9
											+							10
Observatio			hole backfilled with benton	ite.			1	L	1	1		From (m)	<u>г</u>	-	g Runs Recovery %	Remarks		er Information
0 port 00	mpicuo		Here backing with benton									1.20 2.00 3.00	2.00 3.00 4.00 5.00	87 87 87 87 87 77	100 100 95 100	Kennark	Jenai N	
												4.00	5.00	77	100		Proj	ect Number

	_	Project:	A46 Newark - Nor	thern Bypass			Easting:	l 482093	ocation		etails		8.60		Status		Borehole	Number	r
			Newark-on-Trent,		hire		Level: Logger:	18.56n SC	hAOD	Depi Type		2.00m WS			FINAL	-	WS	573	
		Client:	Highways England	I			Loggen				ination						Sheet	1 of 1	
			od, Plant and Crew			neter Diam		bing Diam	Strike C				roundwa	ter			Scale:	1:50	
rom (m) 0.00	To (m) 1.20	Type Inspection Pit	Plant Used Hand Excavated	Crew R.L/A.B	Depth (m) 1.20 2.00	(mm) 300	Depth(m)	(mm)	(m)	Casing (m)	Sealed (m)	d Rose To (m)	(mins)		Remarks		Checked By:	NEE	
1.20	2.00	Dynamic Windowless	Sampling Archway Competitor	R.L/A.B	2.00	110											Approved By: Start Date:	JC 23/04/2	
																	Finish Date:	23/04/2	
			Strata Description				Land	Double (m)	Reduced	Wa	ater	Inst /		-	S	amples and	I Testing		_
			Strata Description				Legend	Depth (m)	Level (mAOD)	Leve	el (m)	Backfill	Depth (n	1) Ref		1	ests / Results		
sub-rou	own slig Inded of	htly gravelly silt sandstone and	y fine to coarse SAND. Gra quartzite. Silt is fine to coa	avel is fine to coars arse. (TOPSOIL)	se angulai	r to							0.10 0.20	ES1 D2					
TOP Orangis	sh brown	gravelly slight	ly silty fine to coarse SANE	D. Gravel is fine to	coarse an	igular		0.35	18.21				0.40 - 0.7	70 B3					
to sub-i (ALLUV		of sandstone a	nd quartzite.										0.80	ES4					
																			1
													1.20	D5	SPT(C) 1.	20m, 50 (25	for 145mm/50 for 23	5mm)	
													1.50	ES6					
													1.60 - 1.9	90 B7					
		FOH	at 2.00m - Terminated wi	th refusal				2.00	16.56				2.00	D8	SPT(C) 2.	00m, 50 (7,1	0/50 for 295mm)		2
		20110	isininatod wi																
											ļ		4						1
heer	tions / R	emarks												Sampli	ng Runs		Hamme	er Informa	
			hole backfilled with bentor	nite.							\neg	From (m)	To (m)	· ·	ng Runs	Remar		1	
-											ľ	1.20	2.00	87	100				
																	Proje	ect Numbe	er
																	784-	B0269	<i>)</i> 4

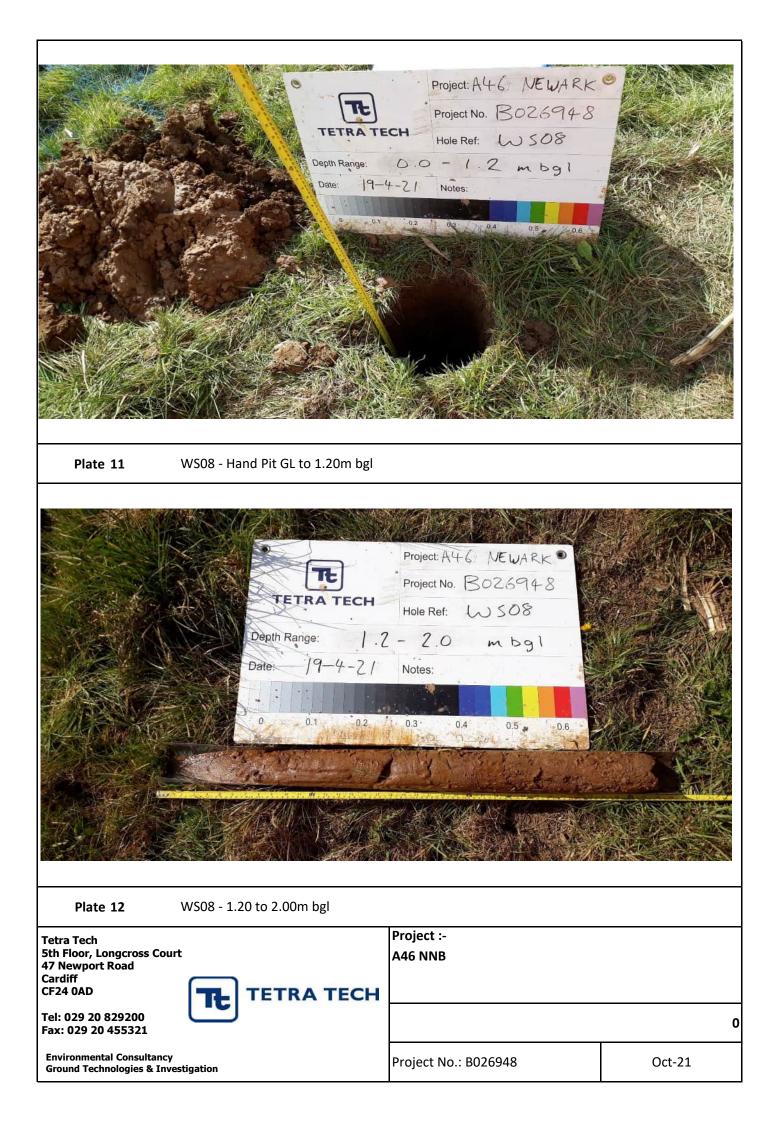
TETRA TECH	pject: A4 & N. WARK oject No. Boz694 ble Ref: WS04 12 m b34 bts:	
Plate 1 WS04 - Hand Pit GL to 1.20m bgl		
Date: 16-4-21 0 0.1 0.2	Project: A46 NEWARK Project No. BOZ6948 Hole Ref: WSO4 - 2 0 Mbg1 Notes: 0.3 0.4 0.3 0.6	
Plate 2 WS04 - 1.20 to 2.00m bgl	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	A46 NNB	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

.	Project: A46 NEWA	
	Project No. BOZ69	48
TETRA TECH	Hole Ref: USO	4- 100
	0-30 mbg	31 .
Date: 16-4-2	Notes:	
0 0.1 0.2	0.3 00 0.5	0.6
ARC R. Comercia		
などのないのないので、などのなどで、		
Plate 3 WS04 - 2.00 to 3.00m bgl		
	: A46 NEWARK	
TETRATECH	t No. B026948	
	.0_ mbg1	
Date: 16-4-21 Note:		
0, 0, 0, 1, 0, 2, 0, 3,	0.4 0.5 0.6	
Plate 4 WS04 - 3.00 to 4.00m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newnort Boad	Project :- A46 NNB	
47 Newport Road Cardiff CF24 0AD TETRA TECH		
Tel: 029 20 829200 Fax: 029 20 455321		
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

	TETRA TECH Hole R	t: A46 NEWARK tNo. B026948 hef: WS06 2 mbg1	
Plate 5	WS06 - Hand Pit GL to 1.20m bgl		
	TETRATECH Depth Range: 1.2- Date: 16-4-21	Project: A46 NEWARK \bullet Project No. B026948 Hole Ref: $USOG$ Z. O. M. bg1 Notes: 0.3 0.4 0.5 0.6	
Plate 6	WS06 - 1.20 to 2.00m bgl		
Tetra Tech		Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD	TETRA TECH	A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321			0
Environmental Consultancy Ground Technologies & Invest	tigation	Project No.: B026948	Oct-21

Dep	EXAMPLE 2.0 th Range: 2.0 16-4-21	Project No Hole Ref: - 3 . C Notes:	A46 NEWARK BOZ6948 WSOG DMbg1 04.03.06	
Plate 7	WS06 - 2.00 to 3.00m bgl			
		3.0	Project: $A46 NEW$ Project No. $B0269$ Hole Ref: $WS0$ 0.4 0.5 0.3 0.4 0.5	48
Plate 8	WS06 - 3.00 to 4.00m bgl	Dr	oject :-	
Tetra Tech 5th Floor, Longcross Co 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321	TETRA T	A	46 NNB	0
Environmental Consultanc Ground Technologies & In		Pr	oject No.: B026948	Oct-21

	Depth Range: 4-0	Notes:	
Plate 9	WS06 - 4.00 to 5.00m bgl		
	BLANK	Project :-	
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff	\frown	A46 NNB	
CF24 0AD Tel: 029 20 829200	TE TETRA TECH		0
Fax: 029 20 455321 Environmental Consultancy Ground Technologies & Inves	stigation	Project No.: B026948	Oct-21



Deptit R	TRATECH Ho Ho RADE: 2.0 -	ject: A46: NEWARK ject No. B026948 e Ref: WS08 3.0 mbg1 tes:	
		3 0.4 0.5 0.6 B	
Plate 13 WS08 - 2.00 to 3.00	m bgl		
Pepth Range	Project A TECH Hole F 3.0 - 4 4-21		
Plate 14 WS08 - 3.00 to 4.00	-		
	A TECH		
Tel: 029 20 829200 Fax: 029 20 455321			0
Environmental Consultancy Ground Technologies & Investigation	Proje	ct No.: B026948	Oct-21

			STATE OF THE STATE OF THE STATE
		Project: A46 NEWARK	
	Tt	Project No: B026948	
	TETRA TECH	Hole Ref: WS08	The for
A A A	Repth Range: 4.0	-5.0 mbgle	AN SOL
	Date: 19-4-21	Notes:	
	0.1 0.2	0.3 0.4 0.5 0.6	
			Provide a start
AN AND THE		that star	
		NAR AKA CHART	AND THE REAL PROPERTY OF
Plate 15	WS08 - 4.00 to 5.00m bgl		
		Project: A46 NEWARK •	
	T	Project No. B026948	
	TETRA TECH	Hole Ref: WS08	
	Depth Range: 5.45	- 6.0 mbg1	
	Date: 19-4-21	Notes:	
TNF BL			MR X
	0 0.1 0.2	0.3 0.4 0.5 0.6	Charles of
A 2			1 Alexandre
Plate 16	WS08 - 5.45 to 6.00m bgl		
Tetra Tech	W308 - 3.43 to 0.0011 bgi	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff		A46 NNB	
CF24 0AD	TE TETRA TECH		
Tel: 029 20 829200 Fax: 029 20 455321			0
Environmental Consultancy Ground Technologies & Inve	estigation	Project No.: B026948	Oct-21

	TR	Project: A46 NEWARK Project No. B02694-8	
	Depth Range (Date: 16-4-2	Hole Ref: WS10 2.0-1.7 mbgi	
			NA SE
1			
Plate 17 WS10 - Ha	nd Pit GL to 1.20m bgl		
		Project: A46 NEWARK •	
	TETRATECH	Project No. B026948 Hole Ref: WS10	
De	epth Range: 1.2	-2.0 mbg1	
Da	ite: 16-4-21	Notes:	
	0 0.1 0.2	0.3 · 0.4 0.5 D.6	
	0 0.1 0.2	Lenger D - Real - 12 - 201	
ASS - ALP	A CANANA AND	THE REAL PROPERTY AND	
MPS C			
			S SAFIN TH
Plate 18 WS10 - 1.2	20 to 2.00m bgl		
Tetra Tech 5th Floor, Longcross Court		Project :- A46 NNB	
47 Newport Road Cardiff CF24 0AD	TETRA TECH		
Tel: 029 20 829200 Fax: 029 20 455321			0
Environmental Consultancy Ground Technologies & Investigation		Project No.: B026948	Oct-21

Plate 19 WS10 - 2.00 to 3.00m bgl (Damag	ed Liner)		
Plate 20 BLANK Tetra Tech	Project :-		
5th Floor, Longcross Court 47 Newport Road Cardiff	A46 NNB		
CF24 0AD Tel: 029 20 829200			
Fax: 029 20 455321		0	
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21	

	Project: A4-6 NEWARK	
TR		
TETRA	TECH Hole Ref: WS12	
	0.0-1.2 mbg1 1-4-21 Notes:	
	1 02 03 2 ⁴⁷ 02 ⁴	
		A CARA
	ALL NOT	
	1 Contraction	
Plate 21 WS12 - Hand Pit GL to 1.2	20m bgl	
0	Project: A46 NE	WARKO
	Project No. BOZO	MUM SACE AND A THE REAL PROPERTY AND A
TETRA TE		
Depth Range:	1.2-2.0 m	
Date: 19-4	the second second second	
0 0.1	0.2 0.3 0.4 0	5 0.6
		Solo State
Plate 22 WS12 - 1.20 to 2.00m bgl		
Tetra Tech	Project :-	
Sth Floor, Longcross Court 47 Newport Road Cardiff	A46 NNB	
CF24 0AD Tel: 029 20 829200	ГЕСН	
Fax: 029 20 455321		0
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

TETRA TECH H Depth Range: 0.0	roject: A46 JEWARK, roject No. Boz69148 Hole Ref: WS13 -1.2 m b91 Notes:	
Plate 23 WS13 - Hand Pit GL to 1.20m bgl		
Depth Range: Date: 20-4-21	Project: A46 NEWARK Project No. B0269148 Hole Ref: WS13 Z-Z.O mbg1 Notes: 0.3 0.4 0.5 0.6	
Plate 24 WS13 - 1.20 to 2.00m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321		0
Environmental Consultancy Ground Technologies & Investigation	Project No.: B026948	Oct-21

Plate 25	WS13 - 2.00 to 3.00m bgl		
Tetra Tech	BLANK	Project :-	
5th Floor, Longcross Court 47 Newport Road Cardiff	\square	A46 NNB	
CF24 0AD Tel: 029 20 829200	TETRA TECH		0
Fax: 029 20 455321 Environmental Consultancy		Project No.: B026948	Oct-21
Ground Technologies & Inves	stigation	FI UJELL NU BU20948	0(1-21

	Poject A46 Project No. 6 Hole Ref: Depth Range: 0.0 - 1.2 Date: 20 - 4 - 21 Notes	NEWARK Boz6948 W S IS M b 9 1 D D D D D D D D D D D D D D D D D D D	
Plate 27 WS1	5 - Hand Pit GL to 1.20m bgl		
	$\begin{array}{c} \hline \\ \hline $	Project: A46 NEWARK • Project No. B026948 Hole Ref: WS15 2-2.0 mbgi Notes:	
Plate 28 WS1	5 - 1.20 to 2.00m bgl		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD	TETRA TECH	Project :- A46 NNB	
Tel: 029 20 829200 Fax: 029 20 455321			0
Environmental Consultancy Ground Technologies & Investigation	on	Project No.: B026948	Oct-21

Plate 29	WS15 - 2.00 to 3.00m bgl		
Plate 30	BLANK		
Tetra Tech 5th Floor, Longcross Court 47 Newport Road Cardiff CF24 0AD Tel: 029 20 829200 Fax: 029 20 455321 Environmental Consultancy	TETRA TECH	Project :- A46 NNB	
Ground Technologies & Inves	tigation	Project No.: B026948	Oct-21