



ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Setia Gill Industrial Estate, Pelandok, Cheong-Choo-Street, Co. Durham, DH2 2RG Tel: 0191 397 4700 Fax: 0191 397 4700
Regional Office: Unit 20 Business Development Centre, Easingham Wharf, Blackburn, BB1 3BL Tel: 01772 735 300 Fax: 01772 735 999

HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP116	23/04/2020	2.60	80 (40)	86	82	80	82 (40)	
PRAIRIE_AUK_TP119	22/04/2020	2.50	52 (20)	40	54	40	47 (20)	
PRAIRIE_AUK_TP119	22/04/2020	3.00	70 (22)	60	66	64	65 (22)	
PRAIRIE_AUK_TP120A	20/04/2020	1.50	60 (22)	62	66	60	62 (22)	
PRAIRIE_AUK_TP120A	20/04/2020	2.50	70 (18)	76	76	74	74 (18)	
PRAIRIE_AUK_TP124	08/04/2020	2.20	32 (20)	34	32	30	32 (20)	
PRAIRIE_AUK_TP127A	23/04/2020	2.50	70 (34)	68	72	68	70 (34)	
PRAIRIE_AUK_TP131	02/04/2020	2.80	46 (20)	62	50	22	45 (20)	
PRAIRIE_AUK_TP131	02/04/2020	3.80	56 (34)	60	60	58	59 (34)	
PRAIRIE_AUK_TP133	22/04/2020	1.00	42 (22)	30	44	46	41 (22)	
PRAIRIE_AUK_TP133	22/04/2020	1.50	76 (18)	80	64	64	71 (18)	
PRAIRIE_AUK_TP134	20/04/2020	1.50	76 (18)	64	68	68	69 (18)	

Residual results given in brackets.

Contract Title :-	Prairie Site Ground Investigation Works	Client :-	South Tees Development Corporation
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Contract No. :-		AEG Contract No. :-	
		4251	
Certificate No. :-		HSV/4251/3	

ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Cull Industrial Estate, Poyon Fen, Chester-le-Street, Co. Durham, Dtd 25G. Tel: 0191 287 0750 Fax: 0191 287 0745
 Regional Office: Unit 20 Business Development Centre, Canham Wharf, Blackburn, BB1 3BL. Tel: 01772 756 300 Fax: 01772 756 688

HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP134	20/04/2020	2.50	84 (28)	86	84	82	84 (28)	
PRAIRIE_AUK_TP135	15/04/2020	1.80	66 (22)	72	68	72	70 (22)	
PRAIRIE_AUK_TP136	15/04/2020	2.80	70 (20)	62	72	74	70 (20)	
PRAIRIE_AUK_TP136	15/04/2020	1.50	38 (18)	40	40	42	40 (18)	
PRAIRIE_AUK_TP136	15/04/2020	2.50	66 (16)	66	70	64	67 (16)	
PRAIRIE_AUK_TP137	15/04/2020	2.00	56 (18)	42	48	46	48 (18)	
PRAIRIE_AUK_TP139B	16/04/2020	2.50	44 (16)	50	46	46	47 (16)	
PRAIRIE_AUK_TP139B	16/04/2020	3.50	80 (22)	70	80	76	77 (22)	
PRAIRIE_AUK_TP145	14/04/2020	2.00	82 (30)	72	76	76	77 (30)	
PRAIRIE_AUK_TP145	14/04/2020	3.00	62 (28)	62	64	68	64 (28)	
PRAIRIE_AUK_TP146C	14/04/2020	1.50	98 (40)	100	94	96	97 (40)	
PRAIRIE_AUK_TP146C	14/04/2020	2.50	92 (30)	106	92	96	97 (30)	

Residual results given in brackets.

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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP149	09/04/2020	2.00	50 (34)	60	60	50	55 (34)	
PRAIRIE_AUK_TP149	09/04/2020	2.80	78 (20)	70	54	70	68 (20)	
PRAIRIE_AUK_TP150A	14/04/2020	1.00	106 (40)	102	100	98	102 (40)	
PRAIRIE_AUK_TP150A	14/04/2020	2.00	100 (38)	100	98	96	99 (38)	
PRAIRIE_AUK_TP150	17/04/2020	2.50	96 (41)	92	92	98	95 (41)	
PRAIRIE_AUK_TP159	16/04/2020	2.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP159	16/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP162	14/04/2020	3.50						Not suitable for HSV testing - insufficiently cohesive.
PRAIRIE_AUK_TP163	14/04/2020	2.00	58 (36)	42	62		54 (36)	
PRAIRIE_AUK_TP164	16/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP164	16/04/2020	3.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP164	16/04/2020	3.50						Not suitable for HSV testing - too friable.

Residual results given in brackets.

Contract Title :-	Prairie Site Ground Investigation Works	Client :-	South Tees Development Corporation
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP168	09/04/2020	2.00	100 (42)	98	90		96 (42)	
PRAIRIE_AUK_TP172	09/04/2020	1.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP173	09/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP175	06/04/2020	1.50	48 (20)	52	46		49 (20)	
PRAIRIE_AUK_TP175	06/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP175	06/04/2020	3.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP176	07/04/2020	1.50	58 (36)	42	62		54 (36)	
PRAIRIE_AUK_TP178	06/04/2020	1.80	48 (26)	56	54		53 (26)	
PRAIRIE_AUK_TP178	06/04/2020	2.80	48 (26)	54	54		52 (26)	
PRAIRIE_AUK_TP178	06/04/2020	3.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP179	09/04/2020	2.00						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP181	09/04/2020	2.00	80 (42)	100	98		93 (42)	

Residual results given in brackets.

	Contract Title :-	Prairie Site Ground Investigation Works	Client :-	South Tees Development Corporation	AEG Contract No :-	4251
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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HAND SHEAR VANE TEST RESULTS

Exploratory Hole No.	Date	Depth m	1st Result kPa	2nd Result kPa	3rd Result kPa	4th Result kPa	Average kPa	Remarks
PRAIRIE_AUK_TP182	09/04/2020	1.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP182	09/04/2020	2.50						Not suitable for HSV testing - too friable.
PRAIRIE_AUK_TP189	07/04/2020	1.50	62 (42)	90	98		83 (42)	
PRAIRIE_AUK_TP189	07/04/2020	2.50	105 (46)	100	105		103 (46)	
PRAIRIE_AUK_TP190A	16/04/2020	1.50	50 (20)	50	52		51 (20)	
PRAIRIE_AUK_TP190A	16/04/2020	2.50	54 (18)	58	50		53 (18)	

Residual results given in brackets.

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	Prairie Site Ground Investigation Works		South Tees Development Corporation		4251		
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Photo-ionisation Detector Test Results



ALLIED EXPLORATION & GEOTECHNICS LIMITED



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_BH101	3.00	0.2	27/04/2020	
PRAIRIE_AUK_BH103	2.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_BH104	5.50	0.2	03/04/2020	
PRAIRIE_AUK_BH105	3.00	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_BH106	5.50	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_BH107	3.00	0.1	24/04/2020	
PRAIRIE_AUK_BH108	2.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_BH109	0.50	2.9	23/04/2020	
PRAIRIE_AUK_BH109	1.00	12.8	23/04/2020	
PRAIRIE_AUK_BH109	1.70	27.6	23/04/2020	
PRAIRIE_AUK_BH109	2.50	10.8	23/04/2020	
PRAIRIE_AUK_BH109	3.50	26.1	23/04/2020	
PRAIRIE_AUK_BH110	3.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP101	1.00	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP101	2.20	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP102	1.50	0.1	21/04/2020	
PRAIRIE_AUK_TP102	2.00	0.1	21/04/2020	
PRAIRIE_AUK_TP102	2.50	0.2	21/04/2020	
PRAIRIE_AUK_TP102	3.00	0.4	21/04/2020	
PRAIRIE_AUK_TP102	3.50	0.7	21/04/2020	
PRAIRIE_AUK_TP103	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP103	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP103	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP104	1.50	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP105	1.20	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP105	2.50	See Remarks	01/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	0.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	1.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	1.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	2.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP106	3.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	1.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP107	2.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP108	1.00	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP108	2.00	1.7	06/04/2020	
PRAIRIE_AUK_TP108	3.00	0.6	06/04/2020	
PRAIRIE_AUK_TP109	0.50	See Remarks	21/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Calibration Compliant :- YES	Date of Issue :- 05/11/2020	Page No. :- 1 of 6	
	Checked By :- <i>LC</i>	Approved By :- <i>kw</i>	AEG Contract No. :- 4251	

ALLIED EXPLORATION & GEOTECHNICS LIMITED



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP109	1.00	0.1	21/04/2020	
PRAIRIE_AUK_TP109	1.50	0.1	21/04/2020	
PRAIRIE_AUK_TP109	2.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP109	3.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	1.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	2.50	0.3	21/04/2020	
PRAIRIE_AUK_TP110	3.00	0.2	21/04/2020	
PRAIRIE_AUK_TP110	3.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	4.00	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP110	4.50	0.1	21/04/2020	
PRAIRIE_AUK_TP111	0.40	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP111	1.00	0.1	22/04/2020	
PRAIRIE_AUK_TP111	1.50	0.2	22/04/2020	
PRAIRIE_AUK_TP111	2.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP111	3.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	1.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	2.00	0.5	22/04/2020	
PRAIRIE_AUK_TP112	2.10	0.9	22/04/2020	
PRAIRIE_AUK_TP112	2.70	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP112	3.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP113	1.30	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP114	0.50	7.2	07/04/2020	
PRAIRIE_AUK_TP114	0.90	130.0	07/04/2020	
PRAIRIE_AUK_TP115	1.90	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP116	0.50	5.4	23/04/2020	
PRAIRIE_AUK_TP116	1.30	7.1	23/04/2020	
PRAIRIE_AUK_TP116	1.60	8.8	23/04/2020	
PRAIRIE_AUK_TP116	2.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP116	3.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP117	0.50	9.1	23/04/2020	
PRAIRIE_AUK_TP117	1.20	10.4	23/04/2020	
PRAIRIE_AUK_TP117	2.00	9.6	23/04/2020	
PRAIRIE_AUK_TP117	3.00	11.1	23/04/2020	
PRAIRIE_AUK_TP118	0.50	0.2	23/04/2020	
PRAIRIE_AUK_TP118	1.20	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP118	1.60	See Remarks	23/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Calibration Compliant :- YES	Date of Issue :- 05/11/2020	Page No. :- 2 of 6	
	Checked By :- <i>LC</i>	Approved By :- <i>skw</i>	AEG Contract No. :- 4251	

ALLIED EXPLORATION & GEOTECHNICS LIMITED



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PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP118	2.20	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	1.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	2.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP119	2.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP120A	2.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP121	1.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP122	1.00	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP123	0.60	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP124	1.50	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP124	2.50	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP126	2.60	0.2	17/04/2020	
PRAIRIE_AUK_TP127	0.30	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP127	1.40	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP127A	2.80	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP128	0.90	0.9	17/04/2020	
PRAIRIE_AUK_TP129	2.10	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP130	1.00	1.0	17/04/2020	
PRAIRIE_AUK_TP131	1.80	See Remarks	02/04/2020	<0.1ppm
PRAIRIE_AUK_TP132	1.30	See Remarks	02/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.20	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	0.90	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP133	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	0.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	2.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP134	2.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP135	1.30	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP136	0.80	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP136	2.90	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP137	1.30	See Remarks	15/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office:
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Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP138	1.20	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP139	1.10	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP139B	0.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP139B	3.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP140	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP140	1.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP140	1.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP141	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP141	1.00	0.6	23/04/2020	
PRAIRIE_AUK_TP141	2.00	1.6	23/04/2020	
PRAIRIE_AUK_TP142	0.50	0.8	23/04/2020	
PRAIRIE_AUK_TP142	1.00	3.9	23/04/2020	
PRAIRIE_AUK_TP142	1.50	3.0	23/04/2020	
PRAIRIE_AUK_TP143	0.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP143	1.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP144	0.50	0.8	24/04/2020	
PRAIRIE_AUK_TP144	1.00	1.5	24/04/2020	
PRAIRIE_AUK_TP145	1.60	0.2	14/04/2020	
PRAIRIE_AUK_TP146C	1.30	0.2	14/04/2020	
PRAIRIE_AUK_TP146C	2.50	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP147	1.50	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP148A	1.40	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP149	1.30	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP150	0.70	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP151	0.50	1.1	23/04/2020	
PRAIRIE_AUK_TP151	1.00	0.8	23/04/2020	
PRAIRIE_AUK_TP151	1.50	0.9	23/04/2020	
PRAIRIE_AUK_TP151	2.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP151	2.50	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP151	3.00	See Remarks	23/04/2020	<0.1ppm
PRAIRIE_AUK_TP152	0.50	0.3	22/04/2020	
PRAIRIE_AUK_TP152	1.00	1.6	22/04/2020	
PRAIRIE_AUK_TP152	1.50	0.8	22/04/2020	
PRAIRIE_AUK_TP153	0.50	1.8	22/04/2020	
PRAIRIE_AUK_TP153	1.00	0.5	22/04/2020	
PRAIRIE_AUK_TP153	1.50	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP153	2.00	See Remarks	22/04/2020	<0.1ppm
PRAIRIE_AUK_TP154	0.50	1.1	21/04/2020	
PRAIRIE_AUK_TP154	1.00	0.2	21/04/2020	
PRAIRIE_AUK_TP154	1.50	See Remarks	21/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Calibration Compliant :-
YES

Date of Issue :-
05/11/2020

Page No. :-
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Checked By :-
LC

Approved By :-
KW

AEG Contract No. :-
4251

ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office:
Regional Office:

Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL



Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP155	0.40	1.8	21/04/2020	
PRAIRIE_AUK_TP155	1.00	0.1	21/04/2020	
PRAIRIE_AUK_TP155	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP156A	0.30	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP157	0.80	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP158	1.30	See Remarks	17/04/2020	<0.1ppm
PRAIRIE_AUK_TP159	0.60	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP160	1.00	0.7	21/04/2020	
PRAIRIE_AUK_TP160	1.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP161	0.80	0.8	20/04/2020	
PRAIRIE_AUK_TP161	2.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP162	1.70	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP163	1.20	4.5	14/04/2020	
PRAIRIE_AUK_TP163	1.90	2.1	14/04/2020	
PRAIRIE_AUK_TP164	0.70	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP164	1.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP165	1.00	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP165	3.30	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP166	0.50	0.2	20/04/2020	
PRAIRIE_AUK_TP166	1.00	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP167	2.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP168	0.05	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP169	1.50	See Remarks	15/04/2020	<0.1ppm
PRAIRIE_AUK_TP170	0.50	See Remarks	21/04/2020	<0.1ppm
PRAIRIE_AUK_TP170	1.00	17.5	21/04/2020	
PRAIRIE_AUK_TP170	1.50	1.1	21/04/2020	
PRAIRIE_AUK_TP171	0.50	1.4	20/04/2020	
PRAIRIE_AUK_TP171	1.00	1.3	20/04/2020	
PRAIRIE_AUK_TP171	1.50	See Remarks	20/04/2020	<0.1ppm
PRAIRIE_AUK_TP172	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP173	0.90	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP174	0.80	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP174	1.60	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP175	0.80	101.1	06/04/2020	
PRAIRIE_AUK_TP175	1.80	5.3	06/04/2020	
PRAIRIE_AUK_TP176	0.90	1.1	07/04/2020	
PRAIRIE_AUK_TP177	0.60	1.1	07/04/2020	
PRAIRIE_AUK_TP177	1.90	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP178	0.80	See Remarks	06/04/2020	<0.1ppm
PRAIRIE_AUK_TP179	1.40	3.8	09/04/2020	

See attached Calibration Certificate for Model No. and any other details

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Calibration Compliant :- YES	Date of Issue :- 05/11/2020	Page No. :- 5 of 6	
	Checked By :- <i>LC</i>	Approved By :- <i>AW</i>	AEG Contract No. :- 4251	

ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office:
Regional Office:

Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

PHOTO-IONISATION DETECTOR

Exploratory Hole No.	Depth (m)	PID (ppm)	Date Tested	Remarks
PRAIRIE_AUK_TP179	2.00	2.1	09/04/2020	
PRAIRIE_AUK_TP180	0.30	See Remarks	14/04/2020	<0.1ppm
PRAIRIE_AUK_TP181	0.60	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP181	2.50	See Remarks	09/04/2020	<0.1ppm
PRAIRIE_AUK_TP182	0.90	6.2	09/04/2020	
PRAIRIE_AUK_TP182	2.00	0.5	09/04/2020	
PRAIRIE_AUK_TP184	0.30	See Remarks	16/04/2020	<0.1ppm
PRAIRIE_AUK_TP185	4.30	See Remarks	08/04/2020	<0.1ppm
PRAIRIE_AUK_TP186	0.50	5.1	07/04/2020	
PRAIRIE_AUK_TP187	0.50	1.3	20/04/2020	
PRAIRIE_AUK_TP187	1.00	0.2	20/04/2020	
PRAIRIE_AUK_TP188	1.00	1.2	08/04/2020	
PRAIRIE_AUK_TP189	1.60	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP189	3.00	See Remarks	07/04/2020	<0.1ppm
PRAIRIE_AUK_TP190A	1.10	See Remarks	16/04/2020	<0.1ppm

See attached Calibration Certificate for Model No. and any other details

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Calibration Compliant :-
YES

Date of Issue :-

05/11/2020

Page No. :-

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Checked By :-

LC

Approved By :-

KW

AEG Contract No. :-

4251





Certificate of Calibration

Customer: Allied Exploration & Geotechnics Ltd

Instrument: MiniRAE 2000

Job: Service, Test & Calibration

Serial number: 110-900192

Fleet Number: N/A

Certificate no: 900192 / 100519

Next calibration due date: 10 May 2020

Tested on: 10 May 2019

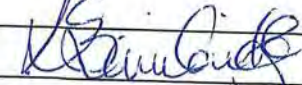
Calibrated for: Isobutylene

<u>Applied Gas Concentration:</u>	<u>Cylinder Reference:</u>	<u>Initial Sensor Reading</u>	<u>Final Sensor Reading</u>	<u>Accuracy Limits</u>
Isobutylene: 100 ppm	AGG2641-3-10	95.0 ppm	100.0 ppm	± 2%

The Instrument has been calibrated after Re-Zeroing & Introducing Span Calibration Gas, using gas that is traceable to national standards and has been prepared in accordance with BS EN ISO6145-6:2008

Calibration Engineer: P Lonsdale

Sign: 



Quality Assessed by (Print):	<u>R.L. BAINBRIDGE</u>	Sign:	<u></u>
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In-situ Water Quality Parameter Test Results





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Regional Office: Unit 20, Business Development Centre, Eanan Wharf, Blackburn, BB1 5BL - Tel: 01772 735300 Fax: 01772 735 969

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test:		05/05/2020		Operator:		D. Portsmouth	
Weather Condition (inc temperature) :				Cool & Dry			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH104	15:30:00	8.10	15.10	811.29	309.30	49.79	0.65
	15:35:00	8.10	15.84	824.59	317.10	49.66	0.65
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH107	14:15:00	7.55	14.99	1989.10	294.80	77.94	1.60
	14:20:00	7.55	15.47	2039.40	282.30	77.48	1.62
	14:25:00	7.55	16.68	2096.30	283.70	78.03	1.62
	14:30:00	7.55	17.74	2143.70	284.70	78.44	1.62
PRAIRIE_AUK_BH109	12:00:00	8.78	14.49	548.17	189.80	27.56	0.44
	12:35:00	8.77	14.60	520.31	204.30	16.03	0.42
	12:40:00	8.77	14.23	540.24	108.20	19.16	0.44
	12:45:00	8.75	15.08	559.75	221.60	28.07	0.45
	12:50:00	8.73	15.45	562.00	231.60	30.30	0.45
	12:55:00	8.73	15.53	561.84	230.40	28.78	0.45
	13:00:00	8.72	15.66	559.15	226.70	22.54	0.44
Remarks :	BH104 & BH107 - unable to sample via pump due to lack of head. Agreed with Arcadis to sample using a bailer.						
Contract Title:				Client:			
Prairie Site Ground Investigation Works				South Tees Development Corporation			
	Checked By:			Approved By:			
	Date issued:			AEG Contract No. :			
01/07/2020			4251			Page No. : 1 of 2	

ALLIED EXPLORATION GEOTECHNICS LIMITED

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Regional Office: Unit 20, Business Development Centre, Earnam Wharf, Blackburn, BB1 5BL - Tel: 01772 735 300 Fax: 01772 735 999

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test:		06/05/2020		Operator:		D. Portsmouth	
Weather Condition (inc temperature) :				Cool/Warm & Dry			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Shallow)	10:10:00	8.52	11.50	1849.80	279.10	46.97	1.62
	10:15:00	8.52	11.62	1854.30	276.40	43.39	1.62
	10:20:00	8.52	11.90	1863.30	280.80	46.55	1.62
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH101 (Deep)	09:40:00	8.31	11.29	1790.40	238.40	47.43	1.57
	09:45:00	8.47	11.20	1795.10	227.30	46.79	1.58
	09:50:00	8.50	11.23	1799.70	233.70	46.34	1.59
	09:55:00	8.51	11.27	1802.10	242.40	46.59	1.59
PRAIRIE_AUK_BH106	08:35:00	9.54	11.22	641.13	124.20	32.09	0.56
	08:40:00	9.53	11.26	644.92	132.80	33.40	0.57
	08:45:00	9.52	11.47	648.52	139.40	34.61	0.57
	08:50:00	9.52	11.66	651.63	145.90	35.53	0.57
PRAIRIE_AUK_BH108 (Shallow)	13:05:00	7.53	11.51	1776.50	345.50	43.80	1.56
	13:10:00	7.56	11.48	1775.70	354.40	44.69	1.56
	13:15:00	7.57	11.48	1775.00	356.70	44.87	1.56
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH108 (Deep)	13:05:00	7.53	11.51	1769.60	345.50	43.80	1.56
	13:10:00	7.56	11.48	1767.70	354.40	44.69	1.56
	13:15:00	7.57	11.48	1766.50	356.70	44.87	1.56
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH110	11:10:00	8.08	11.61	2078.80	333.90	42.01	1.82
	11:15:00	8.12	11.47	2074.70	331.00	43.21	1.82
	11:20:00	8.13	11.43	2075.40	332.10	43.90	1.82
	11:25:00	8.14	11.40	2074.40	337.30	44.55	1.82
Remarks : n/a							
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>DPW</i>			
	Date Issued: 01/07/2020	Page No.: 2 of 2		AEG Contract No.: 4251			

ALLIED EXPLORATION GEOTECHNICS LIMITED

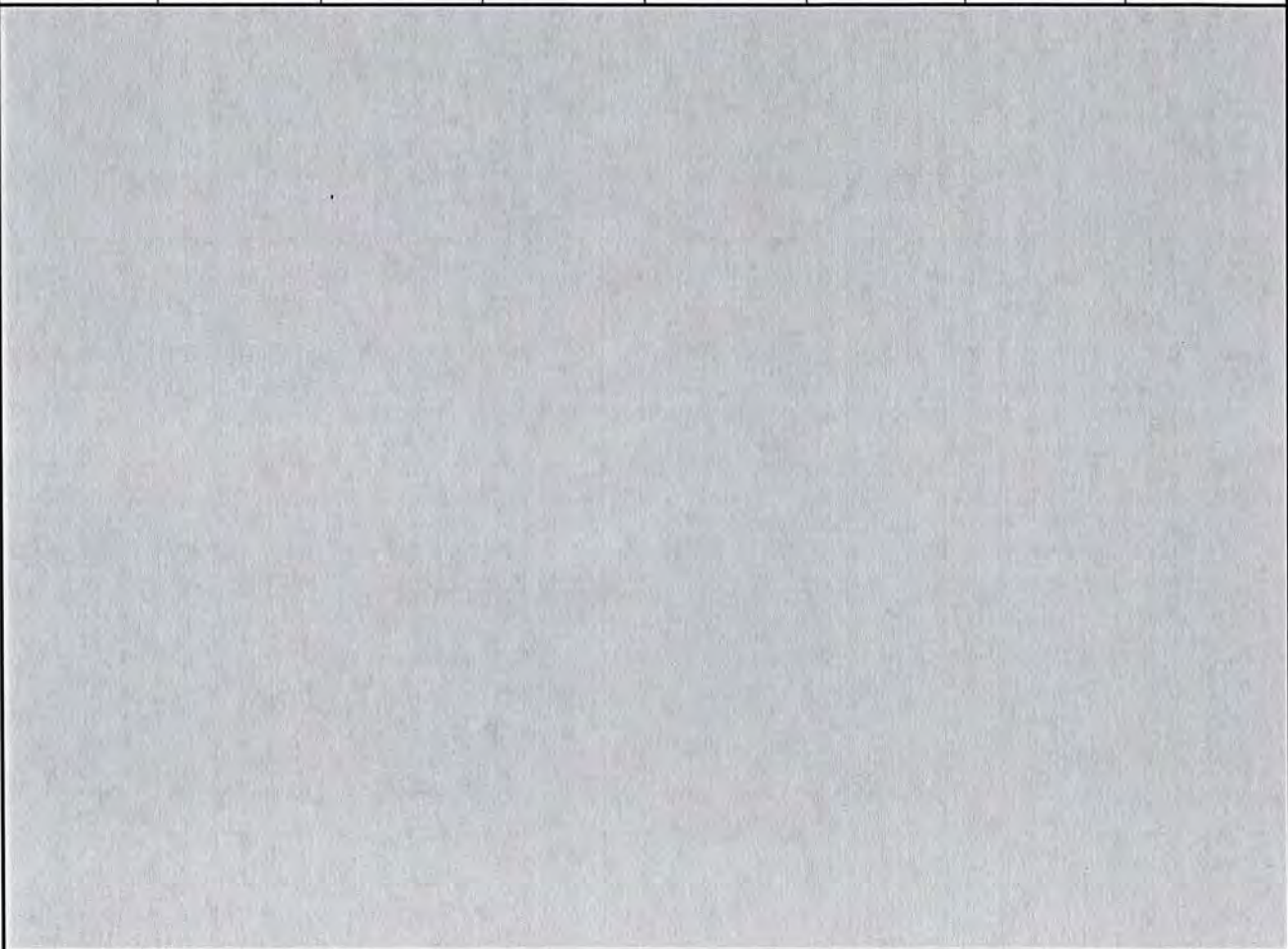
Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 387 4700 Fax: 0191 387 4710
Regional Office: Unit 20, Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01772 735300 Fax: 01772 735 999

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS

Date of Test: 16/06/2020	Operator: A. Masterman
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Weather Condition (inc temperature) : Slightly overcast (15-18°C)

Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH103	15:00:00	8.71	18.35	457.46	109.2	76.88	0.34
	15:03:00	9.12	14.46	428.58	118.7	32.15	0.34
	15:06:00	9.35	13.40	399.67	289.8	23.49	0.32
	15:09:00	9.67	13.60	333.61	115.0	21.43	0.28
	15:12:00	9.68	13.57	319.10	268.4	20.89	0.26
	15:15:00	9.69	13.28	314.98	295.5	19.20	0.26





Remarks :

Contract Title: Prairie Site Ground Investigation Works	Client: South Tees Development Corporation
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	Checked By: <i>LC</i>	Approved By: <i>AKW</i>	
	Date Issued: 05/11/2020	Page No. : 1 of 4	AEG Contract No. : 4251

ALLIED EXPLORATION GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 381 4700 Fax: 0191 367 4710
Regional Office: Unit 20, Business Development Centre, Eanan Wharf, Blackburn, BB1 5BL - Tel: 01772 735 300 Fax: 01772 735 999

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 17/06/2020		Operator: A. Masterman					
Weather Condition (inc temperature) :				Overcast (15-18°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Deep)	09:36:00	8.58	13.54	1563.90	145.4	34.98	1.30
	09:39:00	8.65	13.40	1573.00	225.2	29.66	1.31
	09:42:00	8.69	13.50	1578.00	240.7	27.94	1.31
	09:45:00	8.70	13.62	1582.00	231.3	25.91	1.31
PRAIRIE_AUK_BH101 (Shallow)	10:38:00	8.48	13.13	1467.00	128.2	32.53	1.24
	10:41:00	8.84	12.92	1466.00	252.6	27.90	1.24
	10:44:00	8.84	12.88	1467.00	285.4	26.02	1.24
	10:47:00	8.85	12.90	1470.00	282.7	24.45	1.24
PRAIRIE_AUK_BH104	12:57:00	8.05	13.36	1222.80	276.0	16.64	1.02
	13:00:00	8.07	13.22	1223.30	316.3	14.79	1.03
	13:03:00	8.07	13.28	1233.60	317.5	14.21	1.03
	13:06:00	8.07	13.54	1239.60	306.7	14.34	1.03
PRAIRIE_AUK_BH105	11:14:00	8.24	13.58	1104.90	361.00	43.11	0.92
	11:17:00	8.27	13.86	1109.30	370.40	42.08	0.92
	11:20:00	8.29	14.06	1113.90	373.40	41.44	0.91
	11:23:00	8.29	14.22	1117.80	372.80	41.15	0.91
PRAIRIE_AUK_BH106	13:47:00	9.20	15.77	1035.40	303.6	30.24	0.82
	13:50:00	9.20	15.94	1040.20	331.2	22.53	0.82
	13:53:00	9.21	16.12	1044.60	341.5	20.67	0.82
PRAIRIE_AUK_BH108 (Deep)	10:00:00	7.42	14.38	2306.60	330.8	64.44	1.88
	10:03:00	7.55	14.54	2309.00	347.9	60.04	1.88
	10:06:00	7.59	14.67	2316.50	355.6	57.82	1.88
	10:09:00	7.61	14.76	2321.30	358.0	56.77	1.88
Remarks :							
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>AW</i>			
	Date Issued: 05/11/2020		Page No.: 2 of 4	AEG Contract No.: 4251			

ALLIED EXPLORATION GEOTECHNICS LIMITED

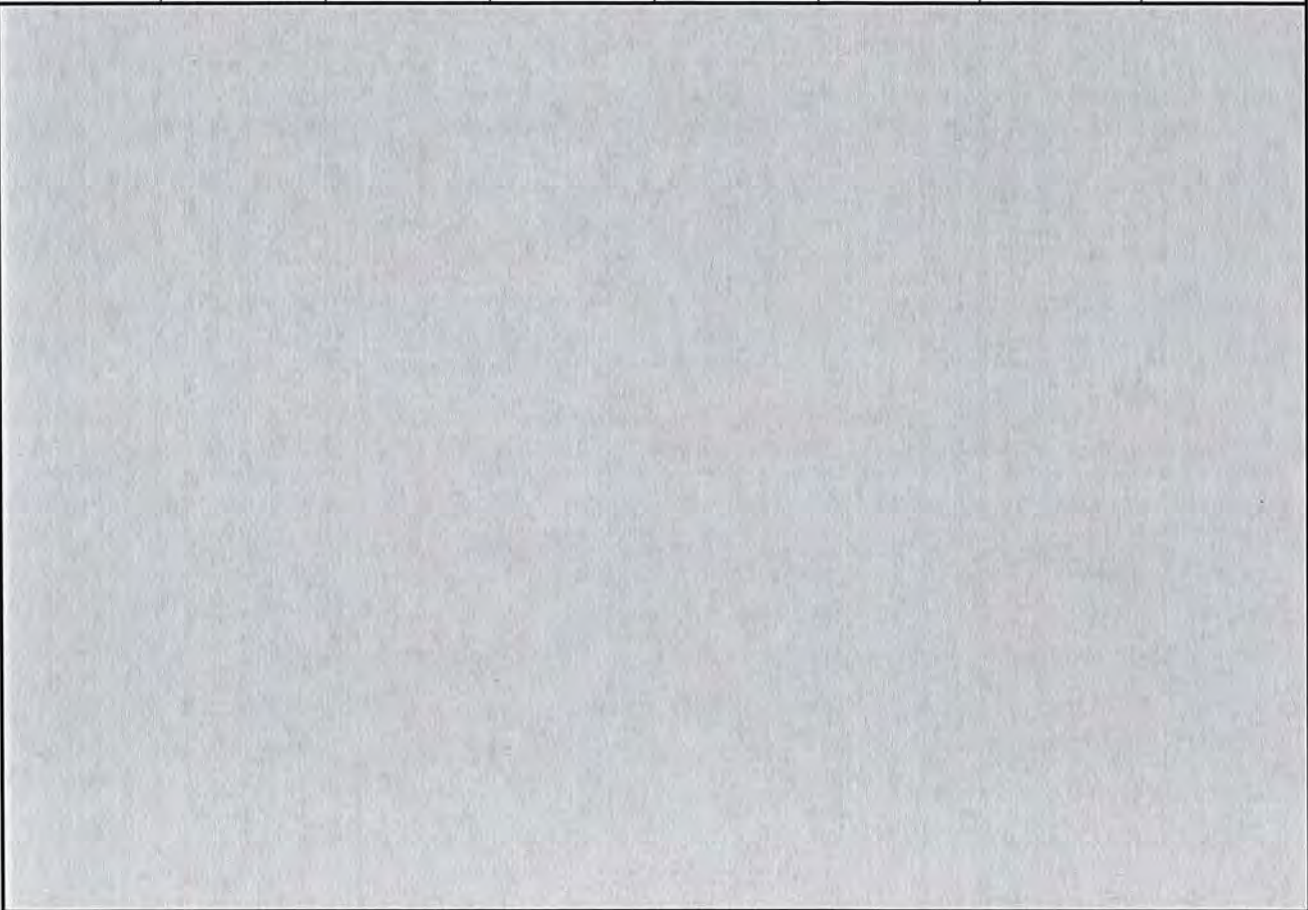
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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS

Date of Test: 18/06/2020	Operator: A. Masterman
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Weather Condition (inc temperature) :

Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH108 (Shallow)	08:45:00	7.74	13.87	1704.00	278.00	38.43	1.41
	08:48:00	7.97	13.74	1710.00	314.20	35.71	1.42
	08:51:00	8.02	13.72	1711.90	307.70	33.61	1.42
	08:54:00	8.05	13.76	1713.70	306.30	34.54	1.42
PRAIRIE_AUK_BH110	11:21:00	8.12	14.22	2931.00	246.30	42.36	2.41
	11:24:00	8.11	13.23	2920.00	292.20	41.66	2.45
	11:27:00	8.11	12.99	2915.00	308.20	40.96	2.46





Remarks :

Contract Title: Prairie Site Ground Investigation Works	Client: South Tees Development Corporation
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	Checked By: <div style="text-align: center; font-size: 2em; color: blue;">LC</div>	Approved By: <div style="text-align: center; font-size: 2em; color: blue;">AW</div>	
	Date Issued: 05/11/2020	Page No. : 3 of 4	AEG Contract No. : 4251



ALLIED EXPLORATION GEOTECHNICS LIMITED

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Regional Office: Unit 20, Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01772 735300 Fax: 01772 735 999

IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 18/06/2020			Operator: A. Masterman				
Weather Condition (inc temperature) : Cloudy (13-14°C)							
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH102	12:36:00	12.89	12.49	4372.20	-103.90	37.05	3.74
	12:39:00	12.94	12.72	4391.40	-101.20	32.12	3.73
	12:42:00	12.98	12.99	4416.70	-100.00	30.57	3.72
	12:45:00	13.00	13.15	4431.30	-102.60	30.46	3.72
PRAIRIE_AUK_BH107	14:16:00	7.50	11.80	1703.90	280.20	7.95	1.48
	14:19:00	7.40	11.61	1681.40	322.10	7.71	1.47
	14:22:00	7.36	11.52	1667.10	349.10	7.40	1.46
	14:25:00	7.34	11.42	1664.20	360.20	7.36	1.46
PRAIRIE_AUK_BH109	15:33:00	7.17	11.50	3392.80	340.40	35.08	2.99
	15:36:00	7.33	11.89	3727.00	371.70	59.40	3.25
	15:39:00	7.41	11.75	4058.00	380.20	75.67	2.47
	15:42:00	7.78	12.32	3237.90	390.10	88.64	3.38
	15:45:00	7.90	12.72	3948.80	364.20	89.69	2.74
Remarks :							
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>AW</i>			
	Date Issued: 05/11/2020		Page No. : 4 of 4	AEG Contract No. : 4251			



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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 30/06/2020			Operator: A. Masterman				
Weather Condition (inc temperature) :				Overcast (17°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH104	15:34:00	7.69	13.20	1229.00	50.10	7.74	1.01
	15:37:00	7.62	13.26	1120.00	52.60	7.46	0.93
	15:40:00	7.62	13.57	1124.00	53.90	9.52	0.95
	-	-	-	-	-	-	-
Remarks :	PRAIRIE_AUK_BH104 & PRAIRIE_AUK_BH107 - unable to sample using pump due to lack of head. Agreed with Arcadis to sample using a bailer.						
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>AW</i>			
	Date Issued: 05/11/2020		Page No. : 1 of 3	AEG Contract No. : 4251			



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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 01/07/2020		Operator: A. Masterman					
Weather Condition (inc temperature) :				Overcast (16°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µs)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH101 (Deep)	09:21:00	9.58	13.30	2352.00	-305.90	7.85	1.94
	09:24:00	8.80	12.02	1372.00	-296.30	1.64	1.24
	09:27:00	8.66	11.85	1842.00	-294.00	1.24	1.60
	09:30:00	8.64	11.91	1834.00	-292.60	1.10	1.59
PRAIRIE_AUK_BH101 (Shallow)	09:35:00	9.60	12.32	1439.00	-306.00	2.24	1.27
	09:38:00	9.12	12.39	1583.00	-290.00	1.53	1.36
	09:41:00	9.04	12.19	1617.00	-286.00	1.53	1.39
	09:44:00	8.97	12.15	1647.00	-282.00	1.76	1.42
PRAIRIE_AUK_BH102	08:44:00	12.79	13.02	4476.00	-419.30	1.62	3.78
	08:47:00	12.86	12.88	4509.00	-423.30	1.30	3.84
	08:50:00	12.94	12.57	4622.00	-421.00	1.00	3.95
	-	-	-	-	-	-	-
PRAIRIE_AUK_BH103	11:39:00	9.38	12.05	935.30	-212.00	2.13	0.80
	11:42:00	9.39	12.06	840.63	-203.00	1.64	0.72
	11:45:00	9.40	12.14	830.17	-200.00	1.52	0.71
	11:48:00	9.39	12.10	813.60	-199.10	1.29	0.70
PRAIRIE_AUK_BH106	15:31:00	8.98	12.22	886.70	-164.50	2.73	0.75
	15:34:00	9.35	12.08	1274.00	-229.00	2.22	1.10
	15:37:00	9.41	12.00	1272.00	-242.90	1.69	1.10
	15:40:00	9.43	11.98	1272.60	-250.20	1.62	1.10
PRAIRIE_AUK_BH110	10:29:00	7.62	12.70	4057.00	86.80	11.19	3.45
	10:32:00	7.60	12.51	4045.00	129.50	9.43	3.45
	10:35:00	7.60	12.47	4045.00	169.00	8.49	3.45
	10:38:00	7.60	12.35	4026.00	190.90	7.72	3.46
	10:42:00	7.59	12.29	4022.00	205.20	7.31	3.46
Remarks :	n/a						
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>AW</i>			
	Date Issued: 05/11/2020		Page No.: 2 of 3	AEG Contract No.: 4251			

ALLIED EXPLORATION GEOTECHNICS LIMITED

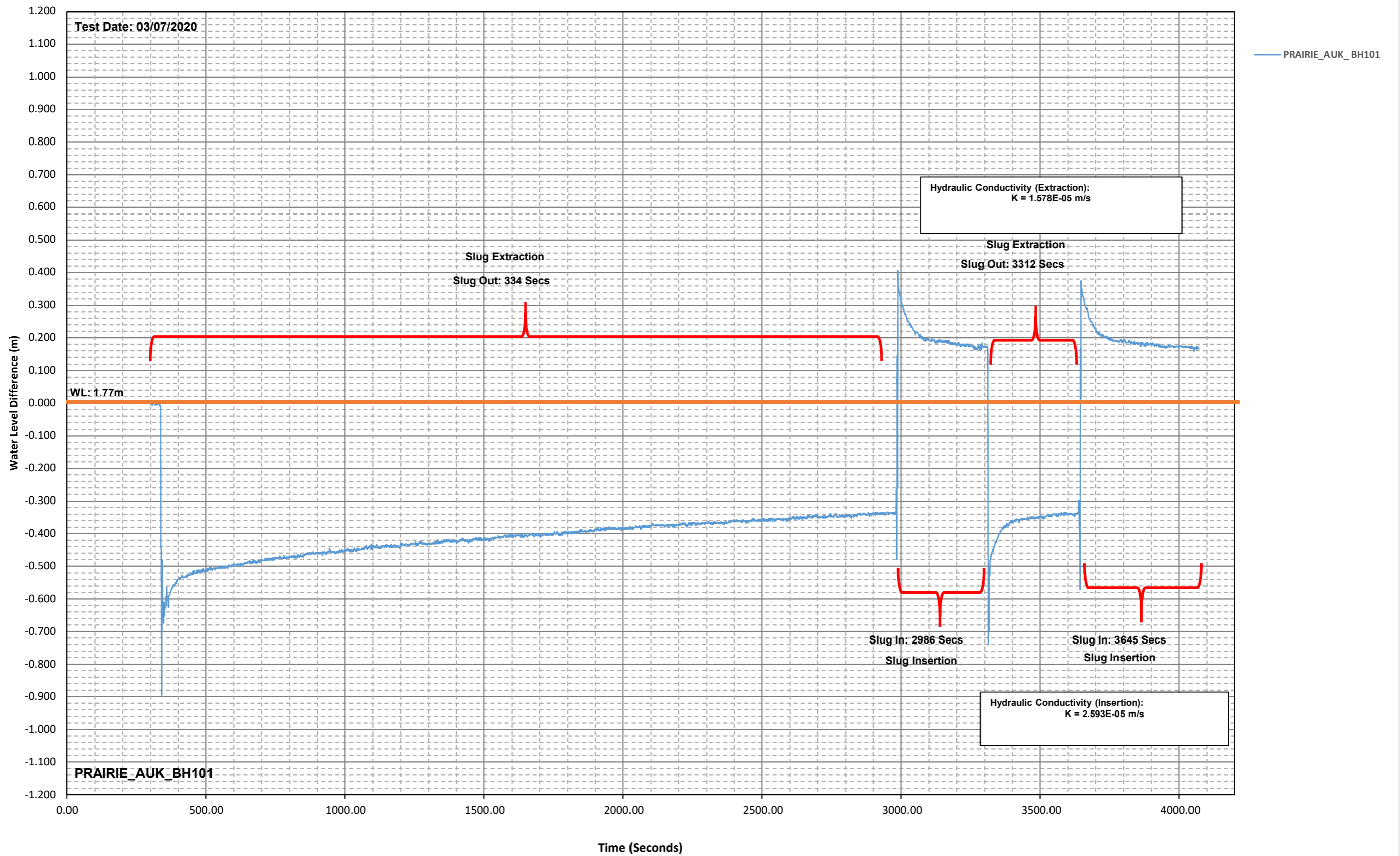
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IN-SITU WATER QUALITY PARAMETER MONITORING RESULTS							
Date of Test: 02/07/2020			Operator: A. Masterman				
Weather Condition (inc temperature) :				Overcast/Showers (11°C)			
Monitoring Point	Time (hrs)	pH	Temp (°C)	Electrical Conductivity (Actual) (µS)	Redox Potential (mv)	Dissolved Oxygen (%)	Total Dissolved Solids (ppm)
PRAIRIE_AUK_BH105	10:13:00	7.78	11.23	1394.10	-198.80	4.11	1.23
	10:16:00	7.71	11.21	1462.20	-197.00	2.53	1.29
	10:19:00	7.43	11.23	1598.80	-185.50	1.89	1.41
	10:22:00	7.37	11.27	1623.20	-179.50	1.80	1.43
PRAIRIE_AUK_BH107	11:44:00	6.93	12.00	2177.60	9.10	6.26	1.88
	11:47:00	6.94	12.02	2178.60	12.10	7.05	1.88
	11:50:00	6.94	12.17	2188.90	16.60	9.01	1.88
	11:53:00	6.92	12.07	2184.30	-1.50	5.44	1.89
	11:56:00	6.91	11.78	2168.00	-29.50	3.70	1.89
	11:59:00	6.91	11.75	2167.00	-40.30	2.99	1.89
	12:02:00	6.90	11.81	2172.30	-56.30	3.23	1.89
	12:05:00	6.89	11.63	2162.50	-71.50	2.24	1.89
	12:08:00	6.89	11.56	2166.20	-78.90	2.12	1.89
PRAIRIE_AUK_BH108 (Deep)	09:08:00	7.69	11.23	2645.00	-156.90	4.52	2.34
	09:11:00	7.17	11.26	2935.30	-141.70	3.36	2.59
	09:14:00	6.96	11.28	2971.80	-125.70	2.15	2.62
	09:17:00	6.92	11.29	2979.60	-110.20	2.11	2.62
	09:20:00	6.90	11.28	2984.50	-103.30	1.77	2.63
PRAIRIE_AUK_BH108 (Shallow)	09:33:00	7.49	11.64	2398.40	-174.90	20.18	2.09
	09:36:00	7.39	11.63	2400.00	-182.20	16.98	2.10
	09:39:00	7.38	11.64	2402.90	-181.80	17.37	2.10
PRAIRIE_AUK_BH109	13:22:00	6.53	12.15	5418.60	-103.40	8.04	4.69
	13:25:00	6.53	11.67	5378.40	-114.70	5.25	4.69
	13:28:00	6.53	11.52	5344.30	-113.00	4.76	4.68
	13:31:00	6.54	11.45	5312.60	-110.50	4.12	4.66
Remarks :	PRAIRIE_AUK_BH108 (Shallow) - Testing undertaken in container (not in-line)						
Contract Title: Prairie Site Ground Investigation Works				Client: South Tees Development Corporation			
	Checked By: <i>LC</i>			Approved By: <i>AW</i>			
	Date Issued: 05/11/2020	Page No.: 3 of 3	AEG Contract No.: 4251				

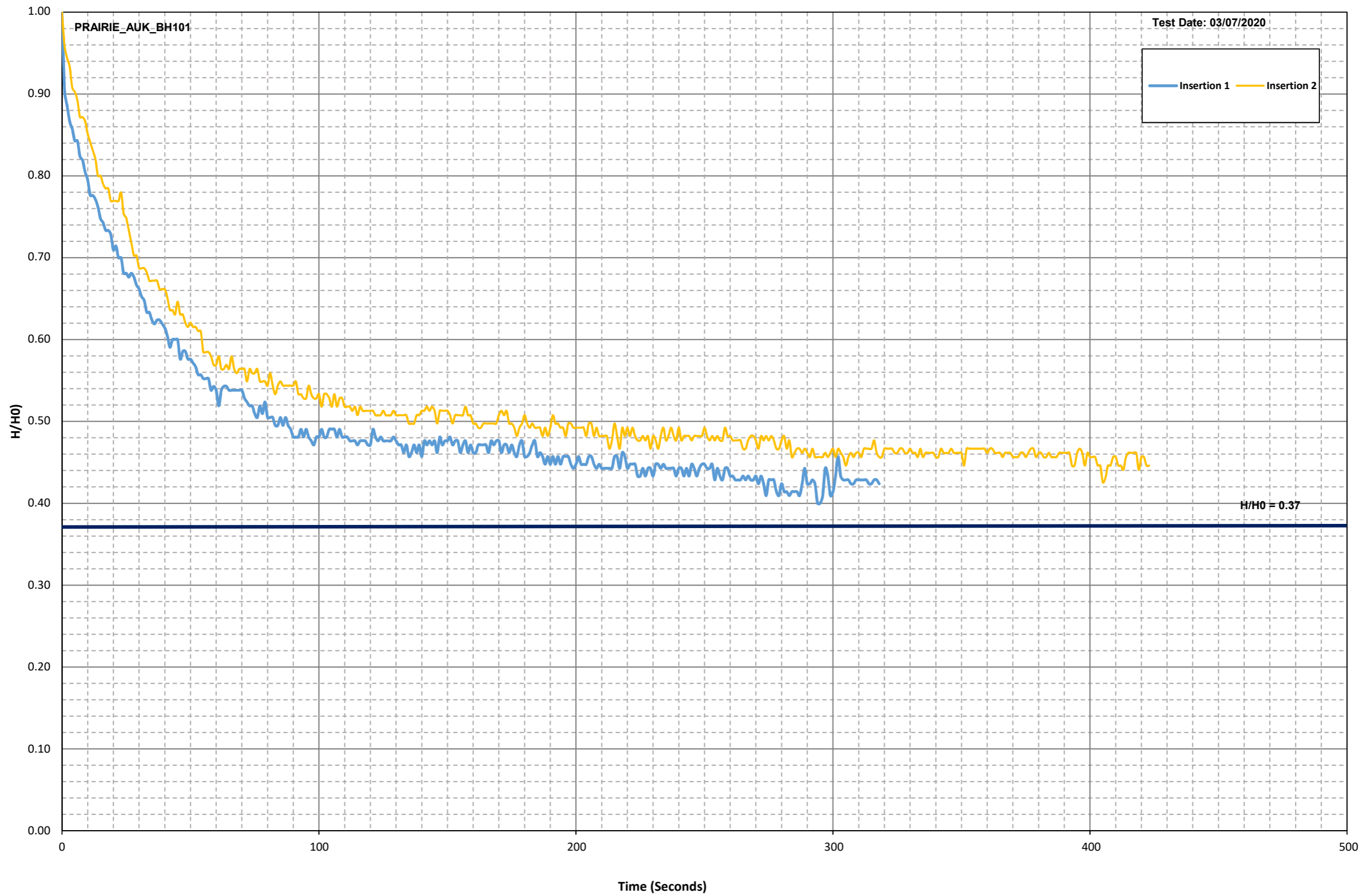
Hydraulic Conductivity: Slug Test Results



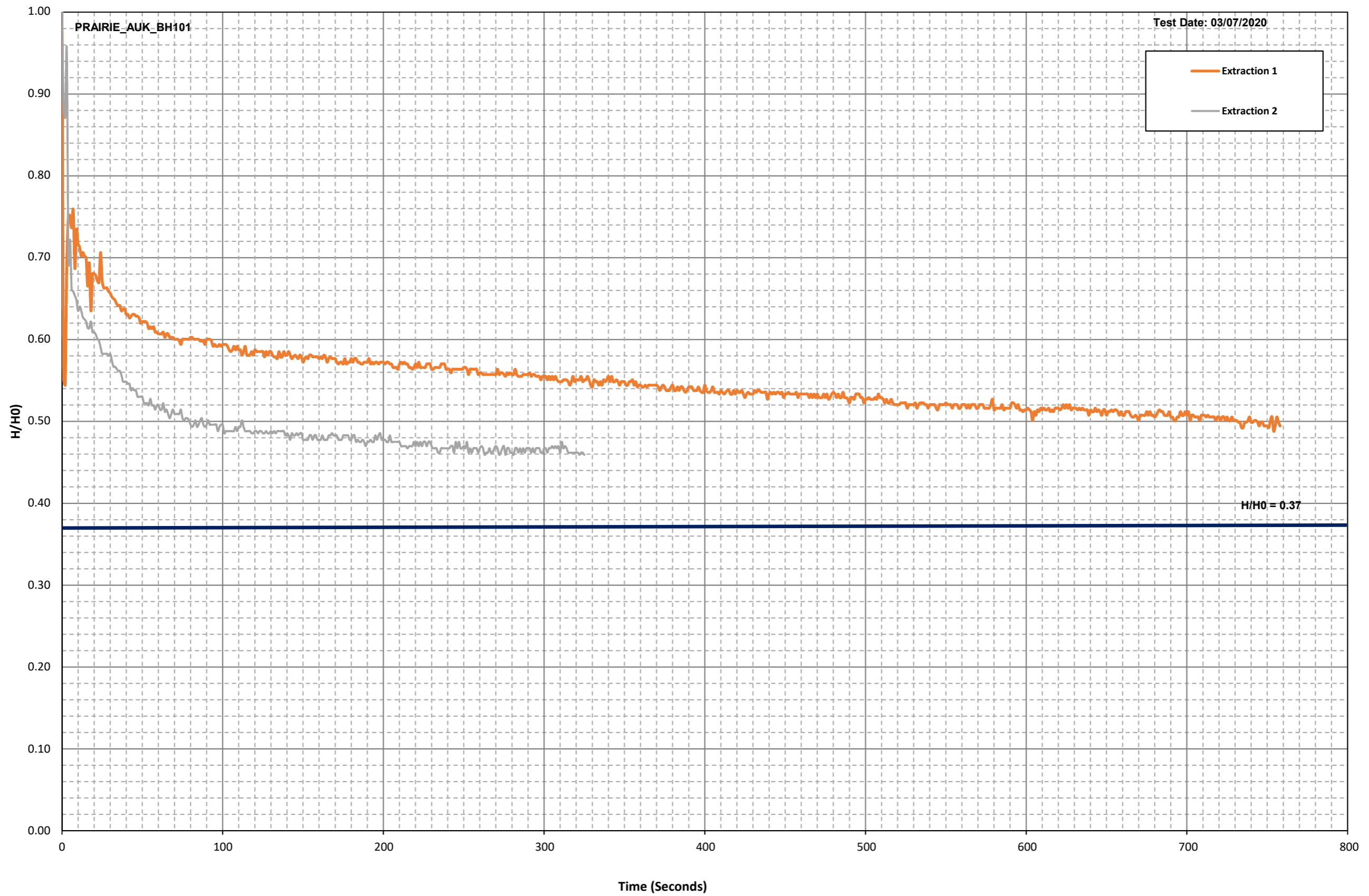
Hydraulic Conductivity: Slug Test



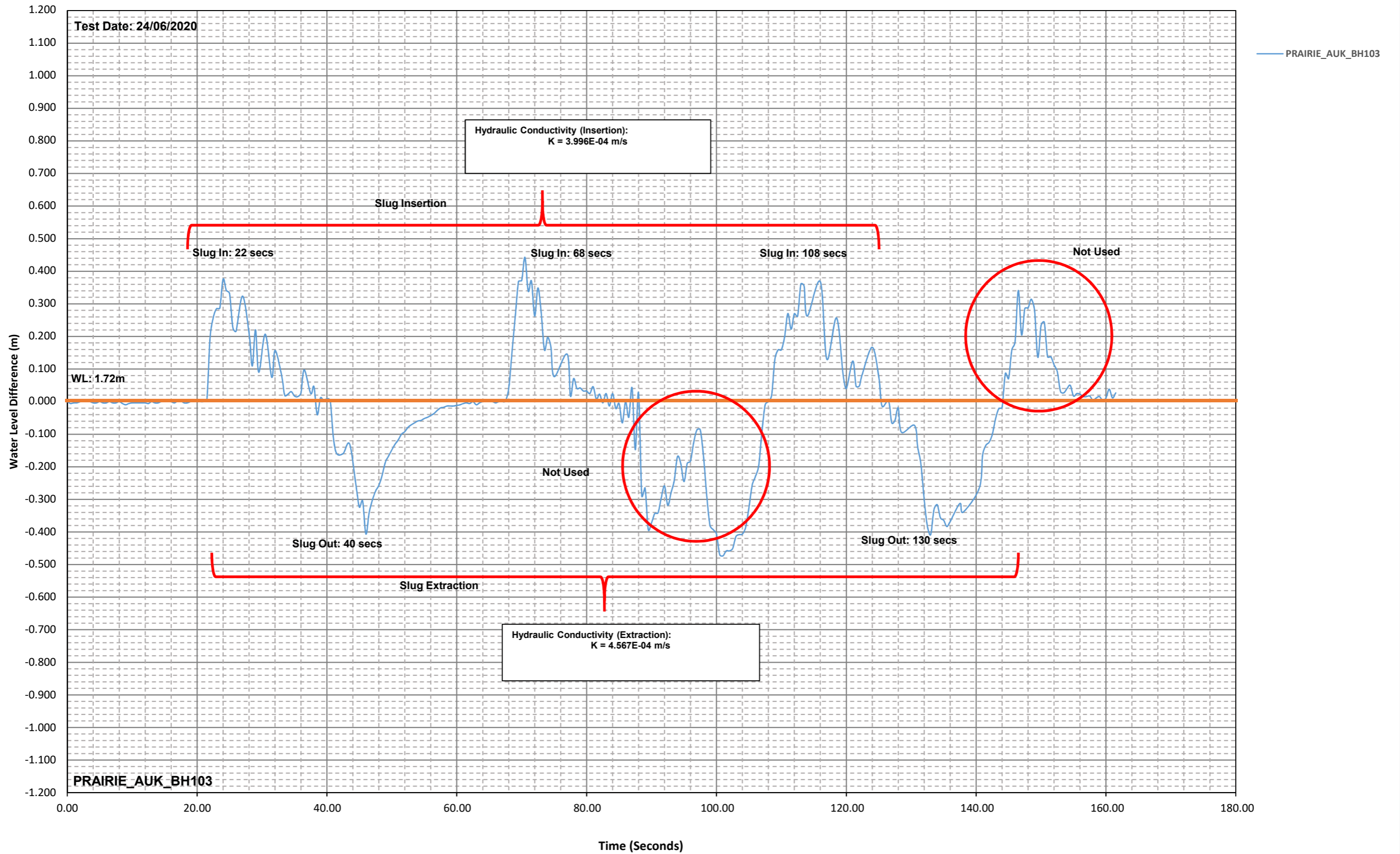
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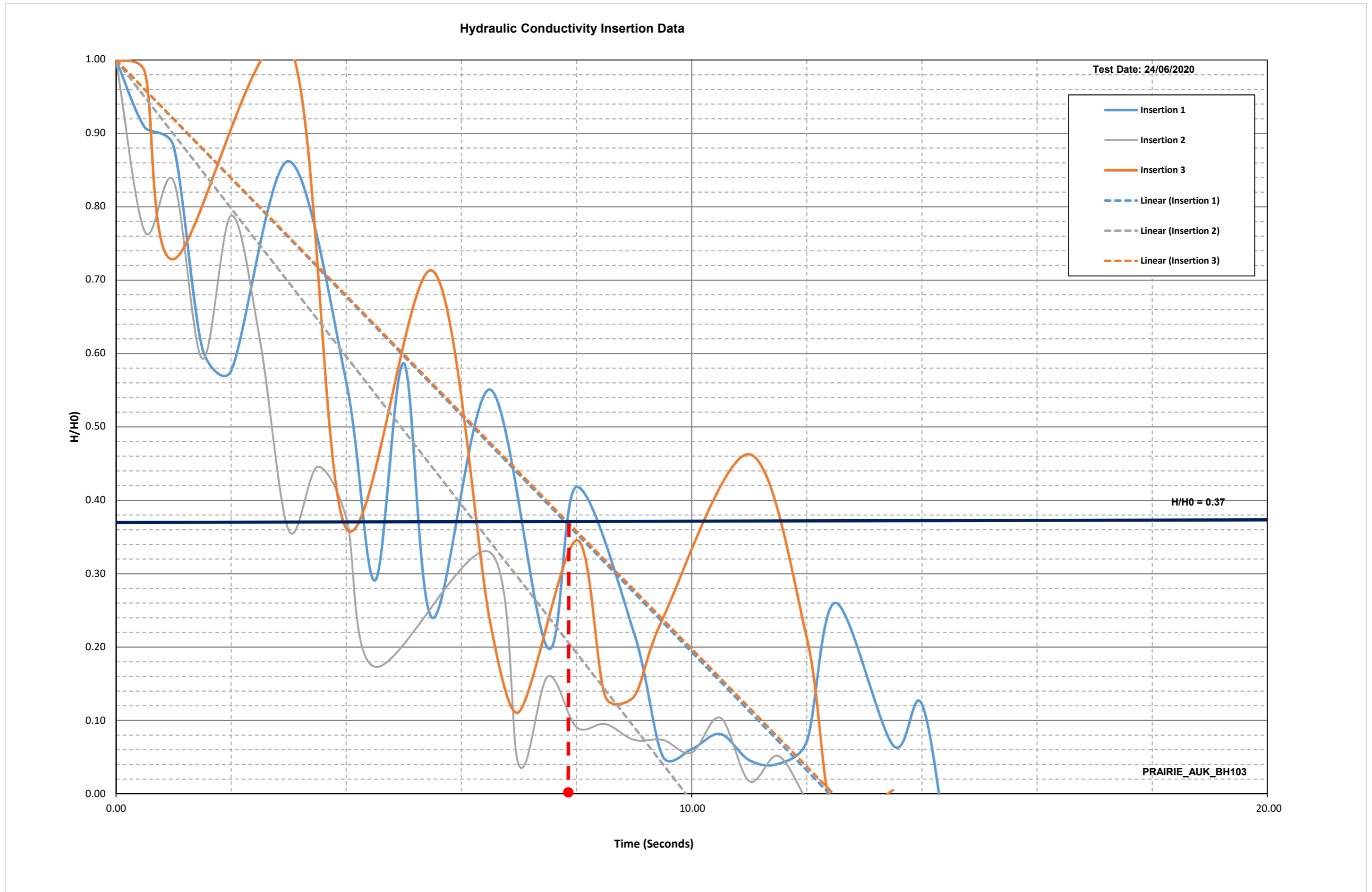


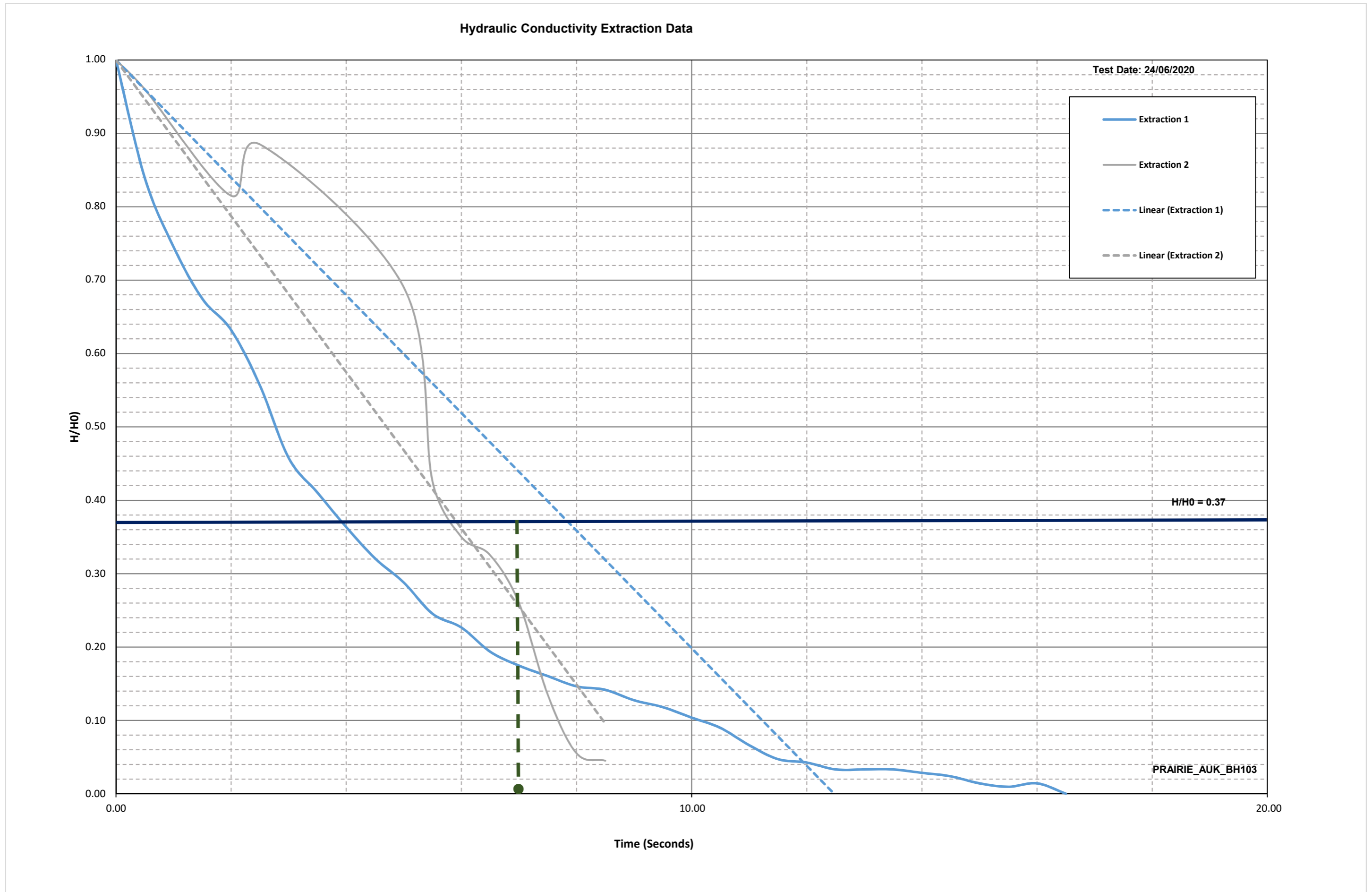
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Hydraulic Conductivity: Slug Test

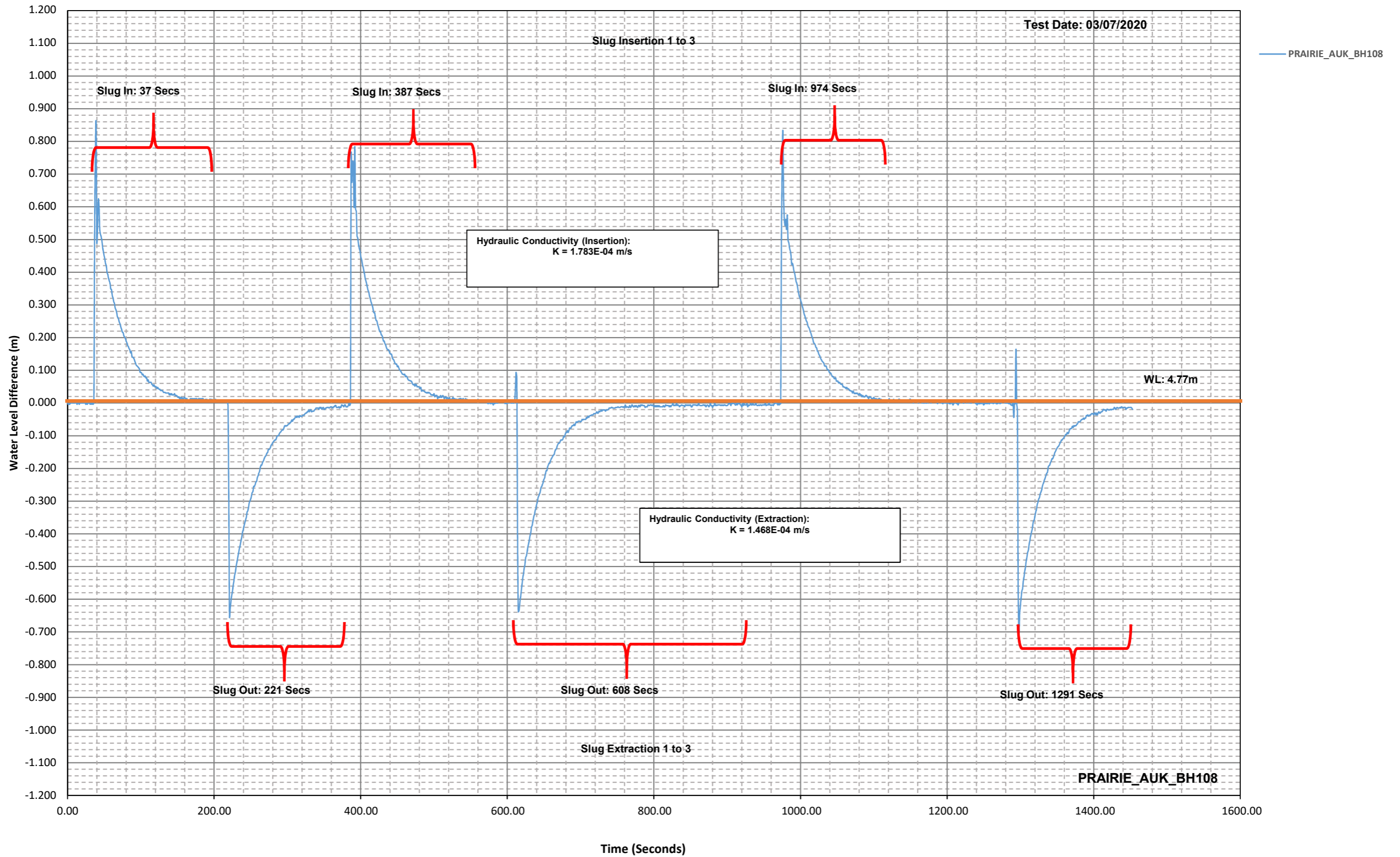




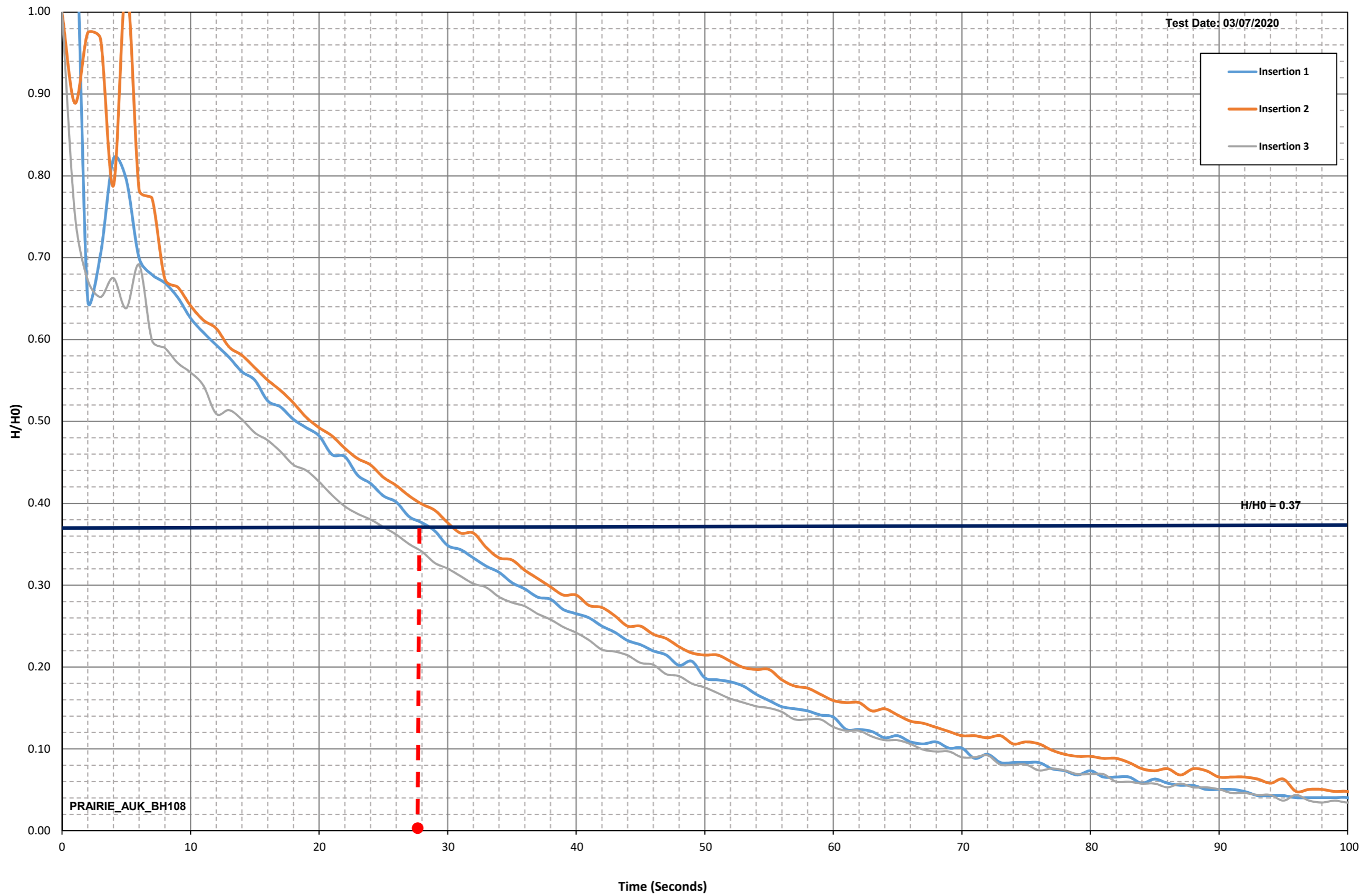


Hydraulic Conductivity: Slug Test

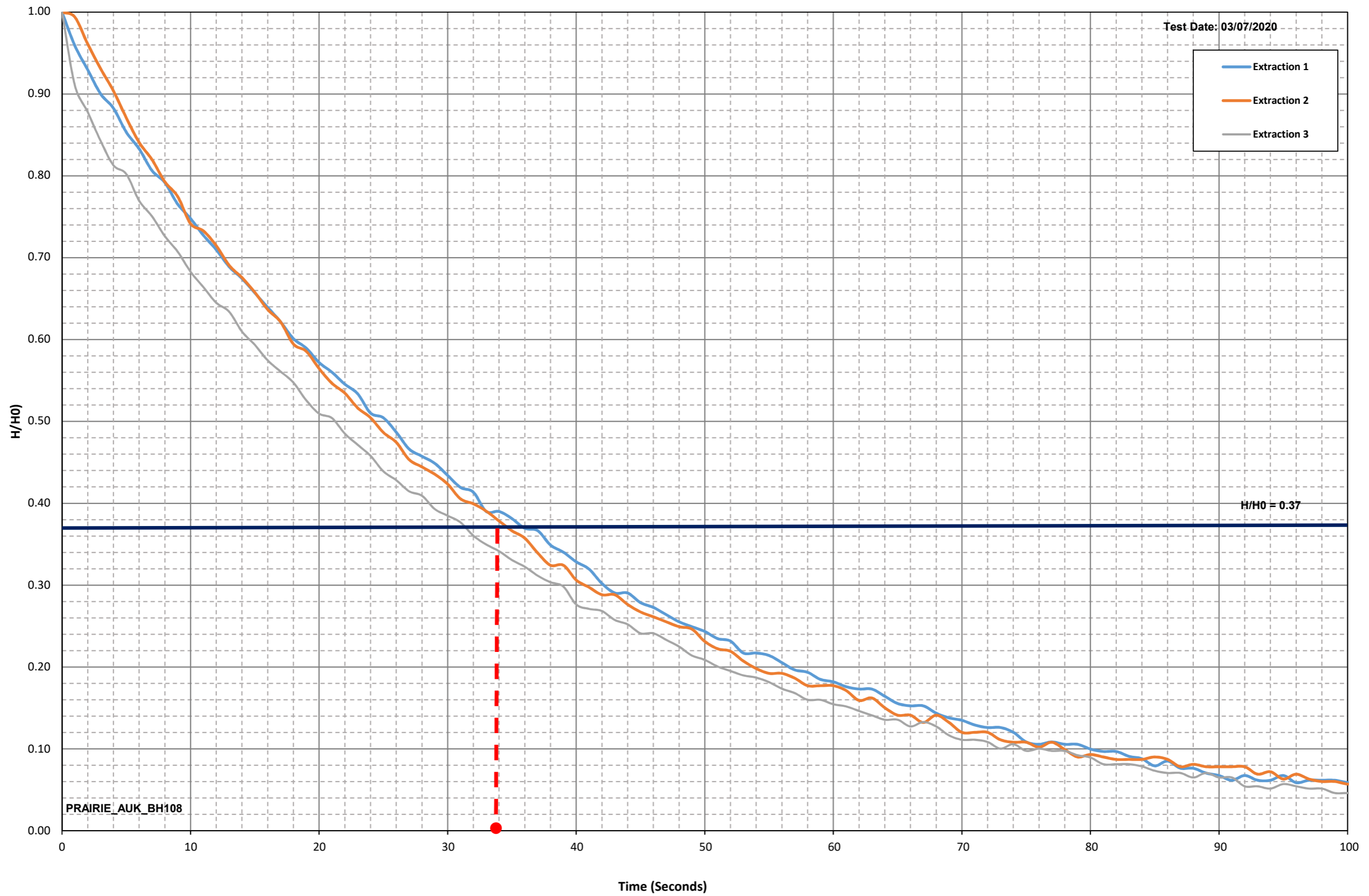
Test Date: 03/07/2020



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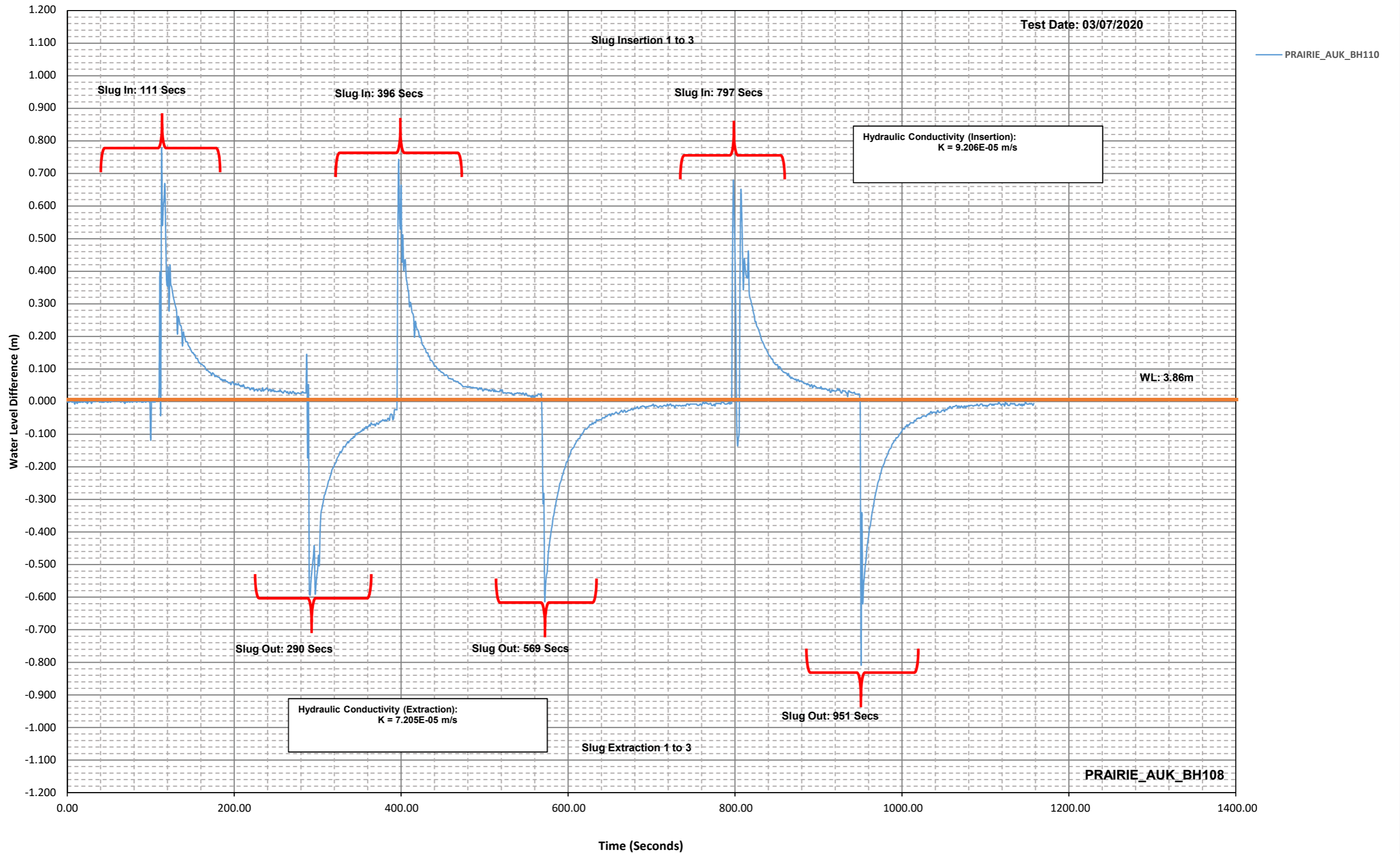


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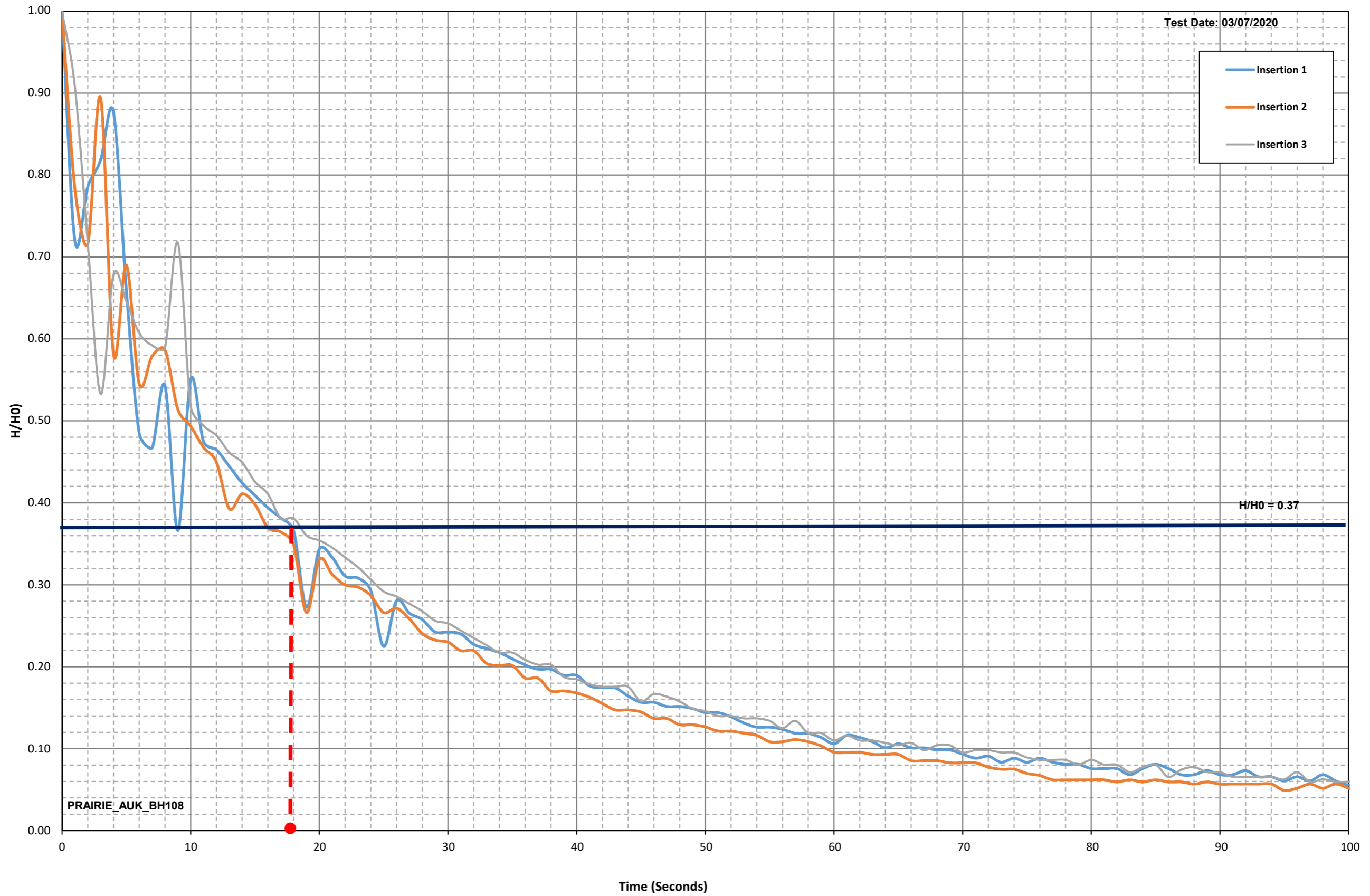


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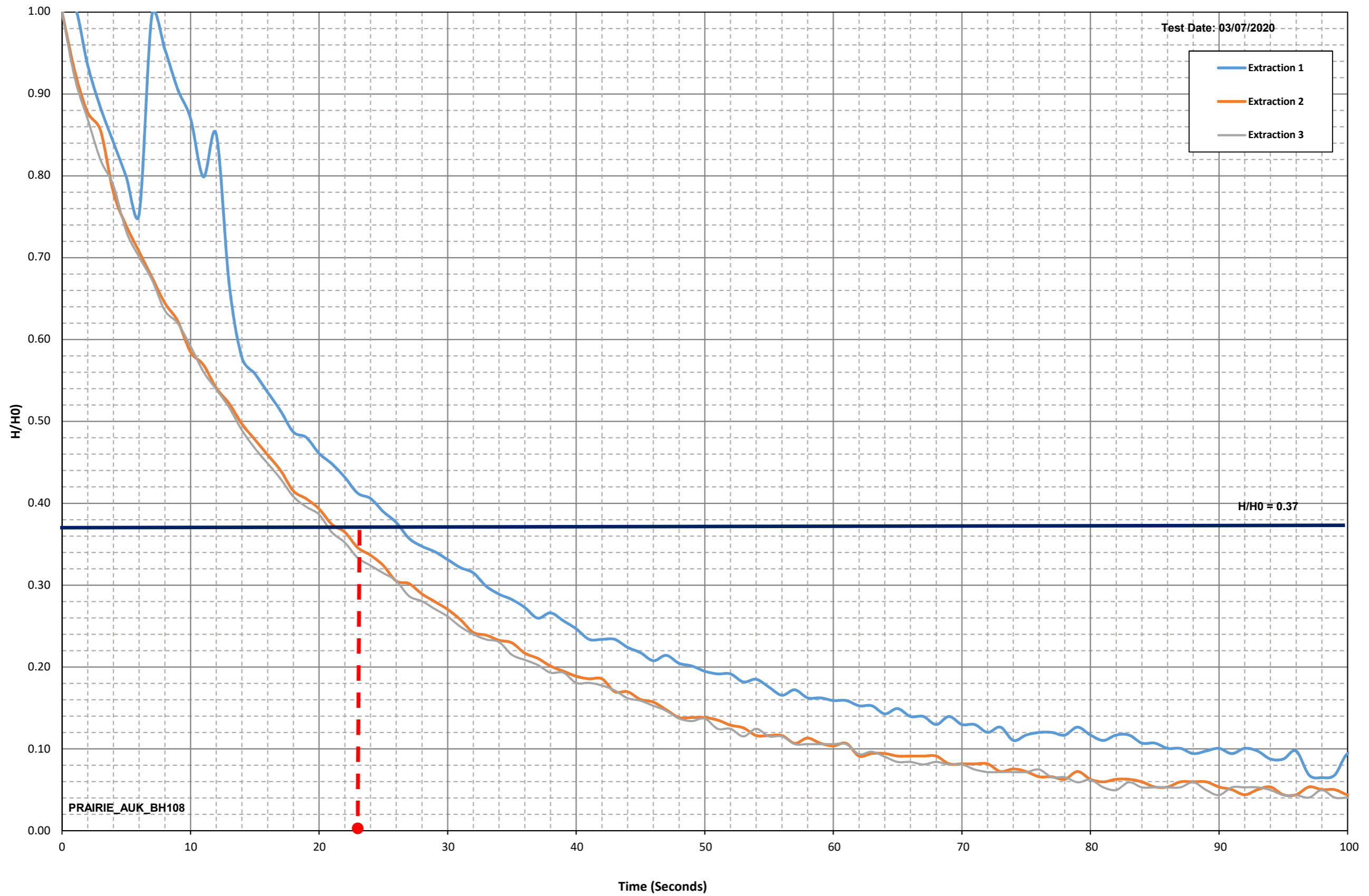
Test Date: 03/07/2020



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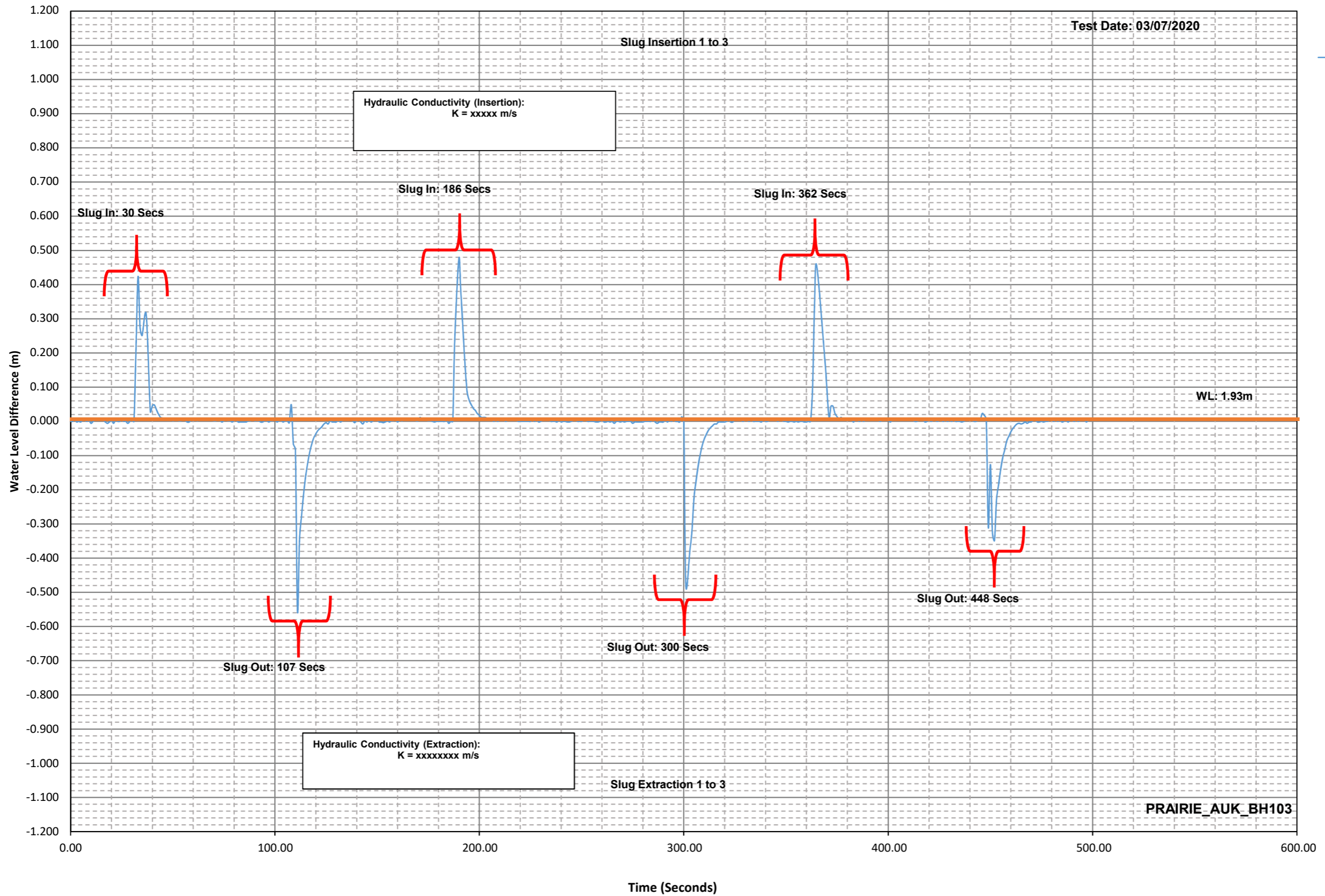


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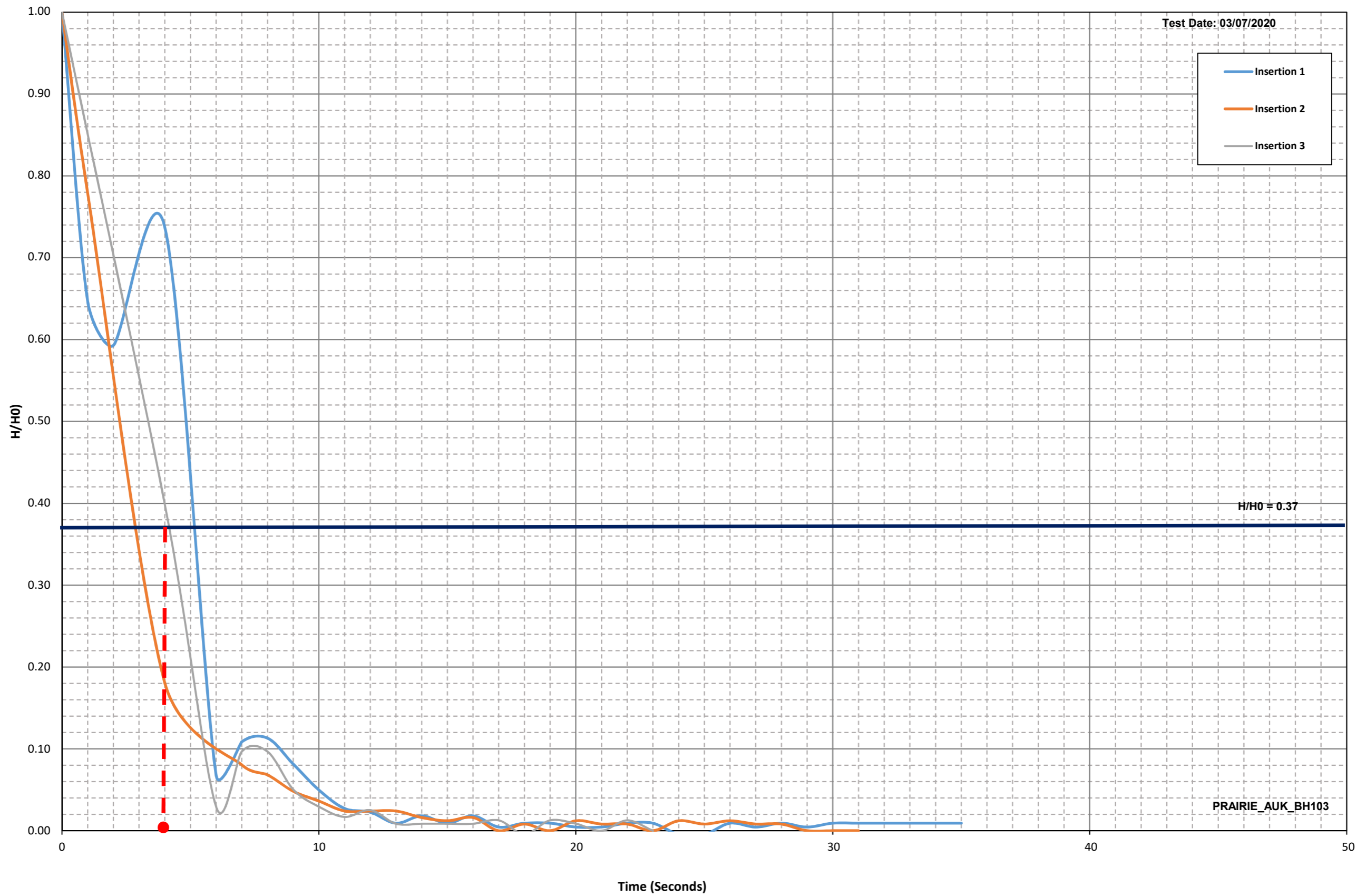


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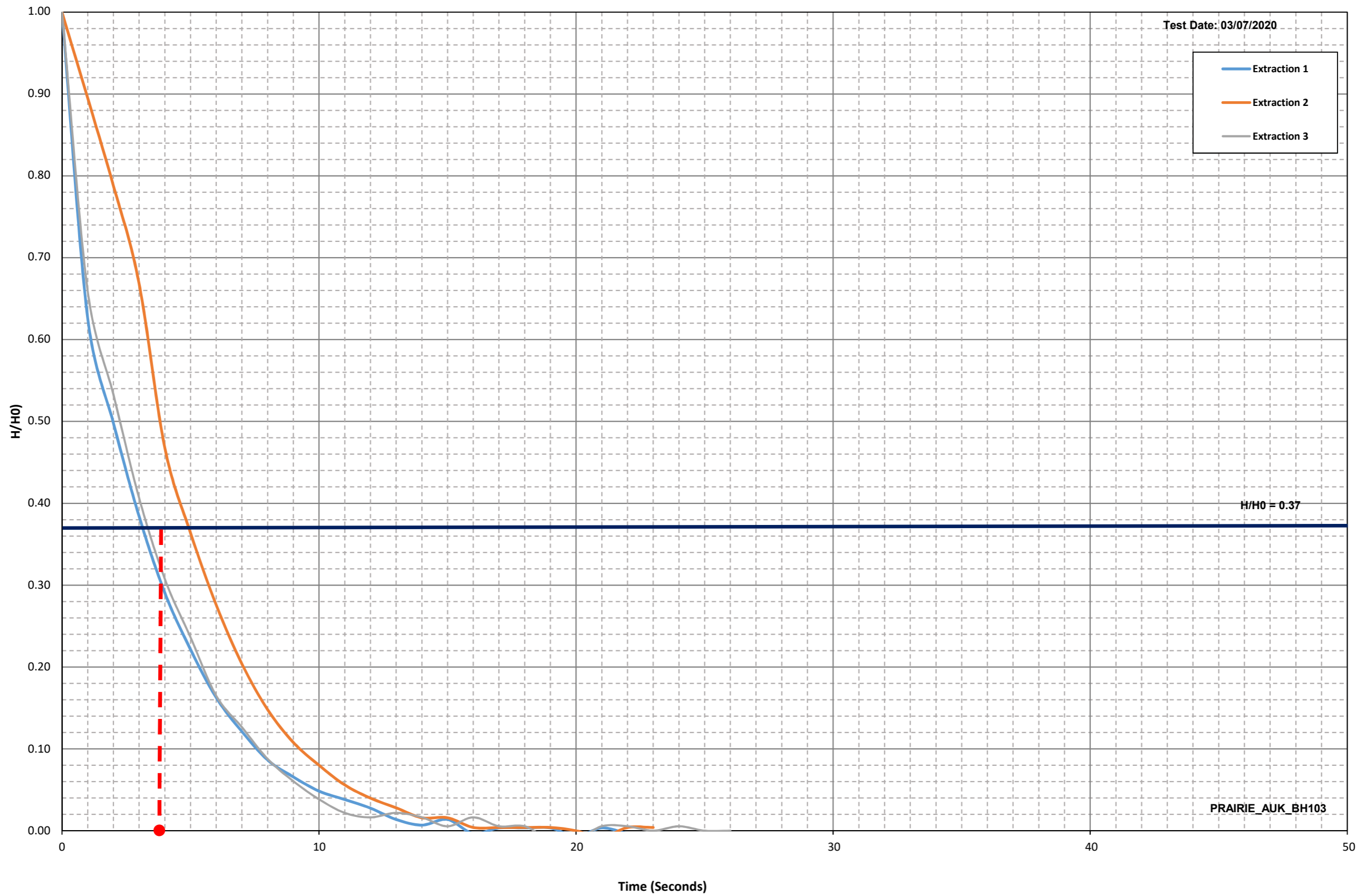
Test Date: 03/07/2020



Hydraulic Conductivity Insertion Data



Hydraulic Conductivity Insertion Extraction Data



Laboratory Report Certificate



ALLIED EXPLORATION & GEOTECHNICS LIMITED

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LABORATORY REPORT CERTIFICATE

Contract Title: Prairie Site Ground Investigation Works **AEG Reference:** 4251

Client: South Tees Development Corporation

We certify that Laboratory testing was carried out on samples from the above contract in accordance with techniques outlined in BS 1377: 1990, BS EN ISO 17892:2014 or other appropriate standards as quoted. The samples were received from April 2020 and the following results, given on the attached enclosures, were obtained.

The tests carried out are indicated in the attached table showing the enclosure number and the total number of pages.

For and on behalf of Allied Exploration & Geotechnics Limited

- Nick Vater (Managing Director)
- Kevin Warriner (HSE & Quality Director)
- Michelle Selkirk (Laboratory Manager)

Signed

A handwritten signature in blue ink, appearing to read 'MSelkirk', written over a horizontal line.

Date: 06 November 2020

Tests marked not UKAS accredited in this certificate are not included in the UKAS accreditation schedule for our laboratory. Any opinions and interpretations expressed herein are outside the scope of the laboratory's UKAS accreditation.

Please note the material was derived from samples taken outside the control of the laboratory.

LABORATORY REPORT CERTIFICATE

ENCLOSURES

Enclosure Number	Description	UKAS Accredited	Reference	No. of Pages
0	Laboratory Report Certificate	N/A		3
1	Sample Description Sheets	N/A		11
2	Moisture Content	Yes	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)	1
2	Plasticity Index and Moisture Content	Yes	BS 1377 Part 2 1990 (BS EN ISO 17892-1:2014)	8
3	Determination of Particle Density	Yes	BS 1377 Part 2 1990	1
4	Particle Size Distribution Sieving	Yes	BS 1377 Part 2 1990	76
4	Particle Size Distribution Sedimentation	No	BS 1377 Part 2 1990	25
5	Determination of Calorific Value, Organic Matter Content, Sulphate and pH (Tested externally)	No	See DETS certificates	19
6	Determination of Dry Density/Moisture Content Relationship	Yes	BS 1377 Part 4 1990	39
7	Determination of California Bearing Ratio	Yes	BS 1377 Part 4 1990	35
8	Determination of One Dimensional Consolidation Properties	Yes	BS 1377 Part 5 1990	4
9	Shear Strength by Hand Vane	No		1
10	Undrained Shear Strength in Triaxial Cell without Pore Water Pressure Measurement	Yes	BS 1377 Part 7 1990	2
11	Determination of Point Load Index	Yes	ISRM 1985	1
12	Determination of Unconfined Compressive Strength (Tested externally)		ISRM 1985	2
13	Slag Analysis (Tested externally)			20

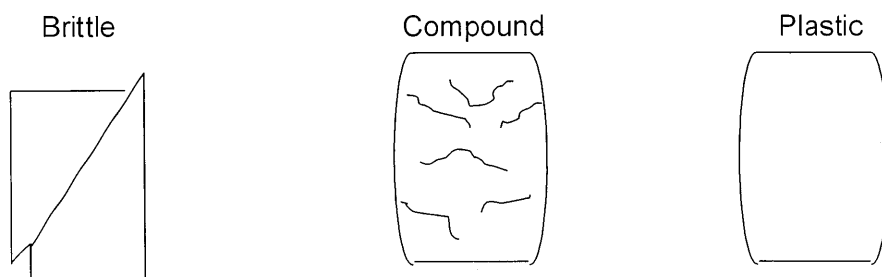
LABORATORY REPORT CERTIFICATE

ABBREVIATIONS

All the abbreviations used on the laboratory certificates are given below:

Br	Brittle	PSD	Particle Size Distribution by sieve analysis
C	Compound	SB	Shear Box
CBR	California Bearing Ratio	SED	Sedimentation Analysis
CDT	Consolidated Drained Triaxial	SO4	Sulphate (total, water extract, groundwater)
CL	Chloride content (water or soil)	CP2	Dry Density/Moisture Content 2.5kg rammer
US	Unsuitable sample for test	CP4	As above using 4.5kg rammer
UUT	Undrained Unconsolidated Triaxial	CPV	As above using vibrating hammer
HSV	Vane Test	CUT	Consolidated Undrained Triaxial
IS	Insufficient sample for test	R	Remoulded
LOI	Loss On Ignition	U	Undisturbed
M	Multi-stage testing	MC	Moisture Content
MCV	Moisture Content Value	PL	Point Load
NAT	Natural preparation method	NMC	Natural (or as received) moisture content
P	Plastic	PFH	Permeability Falling Head Method
OED	Oedometer	PTXL	Permeability in Triaxial Cell
OMC	Optimum Moisture Content	ORG	Organic content
B	Large disturbed (bulk) sample	PD	Particle Density (SG)
J	Small disturbed (jar) sample	PI	Liquid limit, plastic limit and plasticity index

Typical Mode of Failure for Triaxial Testing



Sample Description Sheets





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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_BH101	3.00	U2	Low strength laminated brown silty CLAY of intermediate plasticity with occasional silt lenses.	MC PI PD UUT
PRAIRIE_AUK_BH101	4.00	J4	Brown slightly sandy CLAY.	SO4
PRAIRIE_AUK_BH101	4.00	B5	Brown silty slightly sandy CLAY.	PSD SED
PRAIRIE_AUK_BH101	5.00	U7	Low strength laminated brown silty slightly sandy CLAY of intermediate plasticity.	MC PI UUT
PRAIRIE_AUK_BH101	8.00	U12	Medium strength laminated brown silty slightly sandy CLAY.	UUT
PRAIRIE_AUK_BH101	9.00	J14	Brown slightly sandy CLAY.	SO4
PRAIRIE_AUK_BH101	11.00	U18	High strength brown slightly sandy slightly gravelly CLAY of low plasticity.	MC PI PD UUT
PRAIRIE_AUK_BH101	12.50	J21	Brown slightly sandy gravelly CLAY.	MC PI(IS for LL)
PRAIRIE_AUK_BH101	12.50	B22	Brown slightly sandy slightly gravelly CLAY with a medium cobble content.	PSD SED
PRAIRIE_AUK_BH101	17.00	J30	Brown slightly sandy gravelly CLAY.	BRE
PRAIRIE_AUK_BH101	18.00	J33	White and brown slightly sandy GRAVEL.	MC BRE US for PI
PRAIRIE_AUK_BH103	2.50	U2	Medium strength brown slightly sandy CLAY.	UUT OED
PRAIRIE_AUK_BH103	2.95	J3	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_BH103	4.50	U8	Medium strength brown slightly sandy CLAY.	UUT
PRAIRIE_AUK_BH103	5.50	B12	Brown silty slightly sandy CLAY.	PSD SED
PRAIRIE_AUK_BH103	7.00	U14	Medium strength laminated brown CLAY with occasional silt pockets.	UUT
PRAIRIE_AUK_BH103	8.50	J18	Brown sandy slightly gravelly CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH103	8.50	B19	Brown slightly sandy slightly gravelly CLAY.	PSD SED
PRAIRIE_AUK_BH103	10.00	U21	High strength brown slightly sandy slightly gravelly CLAY.	UUT
PRAIRIE_AUK_BH103	13.00	J27	Brown sandy slightly gravelly CLAY of low plasticity.	MC PI BRE
PRAIRIE_AUK_BH104	5.50	U2	High strength brown slightly sandy CLAY.	UUT

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Signed :- <i>msene</i>	Name :-	Page 1 of 11	
	Date of issue :- 03/11/2020	Certificate No :- SD/4251/1	AEG Contract No. :- 4251	





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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_BH104	5.95	J3	Brown with grey veining slightly sandy slightly gravelly CLAY of high plasticity.	MC PI BRE
PRAIRIE_AUK_BH104	8.50	U8	High strength brown slightly sandy CLAY.	HSV
PRAIRIE_AUK_BH104	11.00	J13	Brown sandy CLAY of low plasticity.	MC PI BRE
PRAIRIE_AUK_BH104	15.50	C21	Brown slightly sandy gravelly CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH104	17.50	C23	Brown slightly sandy gravelly CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH106	5.50	U2	Medium strength brown slightly sandy slightly gravelly CLAY.	UUT BRE OED
PRAIRIE_AUK_BH106	5.95	J3	Brown slightly sandy slightly gravelly CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_BH106	7.00	B6	Brown slightly sandy slightly gravelly CLAY.	PSD SED
PRAIRIE_AUK_BH106	8.50	U8	Very high strength brown slightly sandy slightly gravelly CLAY.	UUT
PRAIRIE_AUK_BH106	9.50	J10	Grey sandy slightly gravelly CLAY of low plasticity.	MC PI BRE
PRAIRIE_AUK_BH107	3.00	U2	Low strength fissured brown/grey silty CLAY of intermediate plasticity.	MC PI Density UUT
PRAIRIE_AUK_BH107	3.45	J3	Brown CLAY with occasional sand pockets.	BRE
PRAIRIE_AUK_BH107	4.00	B5	Brown CLAY.	CP2 CBR
PRAIRIE_AUK_BH107	5.00	U7	Medium strength laminated brown silty CLAY.	UUT
PRAIRIE_AUK_BH107	7.50	J12	Red brown slightly sandy CLAY of low plasticity.	MC PI BRE
PRAIRIE_AUK_BH107	9.00	J16	Red brown CLAY with bands of white gypsum.	BRE
PRAIRIE_AUK_BH108	2.50	U2	High strength fissured brown CLAY of intermediate plasticity with occasional silt dustings.	MC PI HSV IS for UUT
PRAIRIE_AUK_BH108	2.95	J3	Brown CLAY of high plasticity.	MC PI
PRAIRIE_AUK_BH108	3.50	B5	Brown slightly sandy CLAY.	PSD SED PD
PRAIRIE_AUK_BH108	4.50	U7	Medium strength brown slightly sandy slightly gravelly CLAY becoming high strength with depth.	MC HSV
PRAIRIE_AUK_BH108	5.00	J9	Brown slightly sandy CLAY of low plasticity.	MC PI

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Signed :- 	Name :- 	Page 2 of 11	
	Date of issue :- 03/11/2020	Certificate No :- SD/4251/2	AEG Contract No :- 4251	


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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m) ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_BH108	6.50 J12	Brown sandy gravelly CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH108	7.00 B14	Brown slightly sandy slightly gravelly CLAY.	PSD SED BRE
PRAIRIE_AUK_BH108	8.00 J15	Brown sandy CLAY of low plasticity.	MC PI BRE
PRAIRIE_AUK_BH108	8.50 J16	Red brown slightly gravelly SAND. Gravel includes gypsum.	MC PI(NP)
PRAIRIE_AUK_BH108	9.00 J18	Red brown clayey SAND including gypsum.	BRE
PRAIRIE_AUK_BH109	0.50 B4	Brown slightly sandy slightly gravelly CLAY of intermediate plasticity. (Sample has a hydrocarbon odour).	MC PI CBR
PRAIRIE_AUK_BH109	1.20 U6	Medium strength brown silty slightly sandy CLAY becoming high strength with depth. (Sample has a hydrocarbon odour).	MC HSV
PRAIRIE_AUK_BH109	1.65 J7	Brown slightly sandy CLAY of intermediate plasticity. (Sample has a strong hydrocarbon odour).	MC PI
PRAIRIE_AUK_BH109	2.00 B10	Brown slightly sandy slightly gravelly CLAY. (Sample has a strong hydrocarbon odour).	PSD SED CP2 CBR
PRAIRIE_AUK_BH109	3.00 U13	Medium strength brown slightly sandy CLAY.	UUT
PRAIRIE_AUK_BH109	3.45 J14	Brown slightly sandy CLAY of intermediate plasticity.	MC PI US for Density
PRAIRIE_AUK_BH109	5.00 U19	Medium strength brown CLAY becoming high strength with depth.	HSV
PRAIRIE_AUK_BH109	6.00 J22	Blue black MUDSTONE.	MC PI(IS for LL)
PRAIRIE_AUK_BH110	3.00 U2	Low strength laminated brown silty CLAY of intermediate plasticity with occasional sand pockets.	MC PI UUT
PRAIRIE_AUK_BH110	4.00 B5	Brown slightly sandy slightly gravelly CLAY.	PSD SED
PRAIRIE_AUK_BH110	5.00 U6	Medium strength brown silty CLAY of intermediate plasticity.	MC PI UUT
PRAIRIE_AUK_BH110	6.50 B10	Brown slightly sandy slightly gravelly CLAY.	CP2 CBR
PRAIRIE_AUK_BH110	8.00 U12	Medium strength brown CLAY of low plasticity.	MC PI UUT
PRAIRIE_AUK_BH110	9.50 J15	Red brown slightly sandy CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH110	9.50 B16	Brown slightly sandy slightly gravelly CLAY.	PSD SED
PRAIRIE_AUK_BH110	11.00 U18	Extremely high strength brown slightly sandy slightly gravelly CLAY.	UUT

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_BH110	11.45	J19	Orange brown sandy slightly gravelly CLAY.	BRE
PRAIRIE_AUK_BH110	13.50	J23	Brown slightly sandy slightly gravelly CLAY of low plasticity.	MC PI
PRAIRIE_AUK_BH110	15.00	J27	Red brown MUDSTONE with white crystalline inclusions (possible gypsum).	MC BRE US for Pi
PRAIRIE_AUK_TP101	0.60	J3	MADE GROUND (Brown slightly sandy gravel including brick fragments).	MC BRE Calorific Value
PRAIRIE_AUK_TP101	0.90	B4	MADE GROUND (Dark brown/black clayey/silty very sandy gravel including slag and brick fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP101	2.50	J10	Grey mottled slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP101	3.00	B11	Brown slightly sandy slightly gravelly CLAY.	CBR
PRAIRIE_AUK_TP101	4.40	J14	Brown slightly organic slightly sandy slightly gravelly SILT of very high plasticity.	MC PI BRE
PRAIRIE_AUK_TP102	1.50	J6	Brown sandy CLAY of low plasticity.	MC PI
PRAIRIE_AUK_TP102	2.00	B8	Brown slightly sandy slightly gravelly CLAY.	PSD SED CBR
PRAIRIE_AUK_TP103	0.80	B2	MADE GROUND (Dark grey sandy gravel with a high cobble content. Gravel includes slag, ash, concrete and clinker).	PSD
PRAIRIE_AUK_TP104	2.00	J8	Friable brown slightly sandy CLAY of intermediate plasticity.	MC PI BRE
PRAIRIE_AUK_TP105	1.80	J4	Fissured brown slightly sandy slightly gravelly CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP105	2.00	B5	Brown slightly sandy slightly gravelly CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP106	1.00	B2	MADE GROUND (Dark grey clayey sandy gravel including ash, slag, ceramic and brick fragments).	PSD
PRAIRIE_AUK_TP106	2.50	J6	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP106	3.50	J8	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP107	0.50	J3	Brown sandy slightly gravelly CLAY of intermediate plasticity with sand dustings.	MC PI BRE
PRAIRIE_AUK_TP107	1.00	B4	Brown slightly sandy slightly gravelly CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP107	2.30	J8	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP108	0.90	B4	MADE GROUND (Grey slightly clayey sandy gravel with a high cobble content. Gravel includes metal, concrete and slag fragments).	PSD US for CP2

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP108	1.90	B7	MADE GROUND (Brown sandy gravel with a high cobble content. Gravel includes slag, ash, clinker and brick fragments).	PSD
PRAIRIE_AUK_TP110	1.00	B2	MADE GROUND (Brown clayey/silty very sandy gravel with a medium cobble content. Gravel includes slag and clinker).	PSD US for CP2 & CBR
PRAIRIE_AUK_TP110	2.50	J6	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP110	3.00	B8	Brown slightly sandy slightly gravelly CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP111	1.60	B5	MADE GROUND (Brown clayey sandy gravel with a medium cobble content. Gravel includes slag, metal and brick fragments).	PSD SED US for CP2 & CBR
PRAIRIE_AUK_TP111	2.00	J6	Brown CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP112	1.00	J3	MADE GROUND (Dark grey sandy gravel including slag and brick fragments).	BRE Calorific Value
PRAIRIE_AUK_TP112	1.70	B5	MADE GROUND (Dark grey clayey/silty very sandy gravel including plastic, slag and ceramic fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP112	2.70	J9	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP112	3.00	J10	Brown slightly sandy CLAY/SILT of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP112	3.20	B11	Brown silty slightly sandy CLAY.	PSD SED CP2
PRAIRIE_AUK_TP113	1.80	B6	White/grey sandy GRAVEL.	PSD US for CP2
PRAIRIE_AUK_TP113	2.50	J7	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP113	2.80	B8	Brown with grey mottling slightly sandy slightly gravelly CLAY.	PSD SED CP2
PRAIRIE_AUK_TP114	0.40	B4	MADE GROUND (Brown clayey very sandy gravel including plastic, brick and metal fragments).	PSD US for CP2
PRAIRIE_AUK_TP115	1.40	J4	MADE GROUND (Grey slightly sandy gravel including slag fragments).	MC BRE Calorific Value
PRAIRIE_AUK_TP115	1.70	B5	MADE GROUND (Dark grey slightly clayey very sandy gravel).	PSD
PRAIRIE_AUK_TP116	1.60	J5	MADE GROUND (Brown slightly sandy slightly gravelly silt of intermediate plasticity. Gravel includes ceramic fragments).	MC PI BRE ORG
PRAIRIE_AUK_TP116	2.00	J7	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP116	2.50	B8	Brown slightly sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP116	3.00	J9	Reddish brown slightly sandy slightly gravelly CLAY of intermediate plasticity.	MC PI

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP116	3.50	B10	Red brown slightly sandy slightly gravelly CLAY.	CP2 CBR
PRAIRIE_AUK_TP117	1.50	J4	MADE GROUND (Grey slightly sandy gravel including slag fragments).	MC
PRAIRIE_AUK_TP117	2.00	B5	MADE GROUND (Brown slightly clayey sandy gravel with a high cobble content and occasional clay pockets. Gravel includes slag fragments).	PSD US for CP2
PRAIRIE_AUK_TP117	3.20	B9	MADE GROUND (Brown clayey sandy gravel with a high cobble content. Gravel includes slag).	PSD
PRAIRIE_AUK_TP118	0.50	J1	MADE GROUND (Grey slightly sandy gravel including slag fragments).	MC
PRAIRIE_AUK_TP118	1.00	B2	MADE GROUND (Brown clayey/silty very sandy gravel including slag fragments).	PSD
PRAIRIE_AUK_TP118	1.50	J4	Brown slightly sandy CLAY/SILT of intermediate plasticity.	MC PI ORG
PRAIRIE_AUK_TP118	2.20	J6	Brown CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP118	2.50	B7	Brown slightly sandy CLAY.	CP2
PRAIRIE_AUK_TP119	0.50	J1	MADE GROUND (Brown sandy gravel including slag fragments).	MC
PRAIRIE_AUK_TP119	1.00	B2	MADE GROUND (Brown slightly clayey/silty sandy gravel including slag fragments).	PSD
PRAIRIE_AUK_TP119	2.00	B5	MADE GROUND (Brown slightly clayey/silty very sandy gravel including ash and clinker).	PSD CP2 CBR
PRAIRIE_AUK_TP119	2.50	J6	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP119	3.00	B8	Brown with orange mottling silty CLAY.	CP2 CBR
PRAIRIE_AUK_TP120	0.50	J1	MADE GROUND (Brown gravelly sand. Gravel includes slag fragments).	Calorific Value
PRAIRIE_AUK_TP120A0.80	0.80	B2	MADE GROUND (Dark brown clayey very sandy gravel including glass and ash).	PSD
PRAIRIE_AUK_TP120A1.50	1.50	J4	Brown gravelly SAND.	MC PI(NP)
PRAIRIE_AUK_TP120A1.80	1.80	B5	Brown sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP121	0.80	B2	MADE GROUND (Dark brown clayey very sandy gravel including slag and concrete fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP123	0.50	B2	MADE GROUND (Grey brown cobbles of bricks).	PSD US for CBR
PRAIRIE_AUK_TP124	1.00	J3	MADE GROUND (Brown slightly sandy gravel with occasional clay pockets. Gravel includes brick fragments).	MC Calorific Value

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP124	1.50	B4	MADE GROUND (Dark grey clayey very gravelly sand. Gravel includes ash, slag and brick fragments).	PSD CP2
PRAIRIE_AUK_TP124	2.00	J6	Brown with grey mottling slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP126	1.80	B4	MADE GROUND (Grey cobbles of slag and brick).	PSD
PRAIRIE_AUK_TP131	1.00	J3	MADE GROUND (Brown slightly sandy gravel including brick fragments).	MC
PRAIRIE_AUK_TP131	2.60	J7	Brown slightly gravelly CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP131	3.60	J9	Fissured brown slightly silty CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP131	3.80	B10	Brown slightly sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP132	0.50	J2	MADE GROUND (Brown slightly sandy gravel including slag and brick fragments).	Calorific Value
PRAIRIE_AUK_TP132	2.00	B6	MADE GROUND (Grey sandy gravel with a medium cobble content. Gravel includes concrete, slag and glass fragments).	PSD US for CP2 & CP4
PRAIRIE_AUK_TP134	0.80	B2	MADE GROUND (Dark grey clayey very sandy gravel with a medium cobble content. Gravel includes slag, ash and brick fragments).	PSD
PRAIRIE_AUK_TP134	1.50	J4	Brown CLAY/SILT of intermediate plasticity with occasional silt pockets.	MC PI
PRAIRIE_AUK_TP135	1.00	B3	MADE GROUND (Grey slightly clayey very sandy gravel including slag, concrete and brick fragments).	PSD
PRAIRIE_AUK_TP135	2.00	J7	Brown CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP135	2.70	J9	Brown slightly silty CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP136	1.00	J4	Red brown slightly sandy slightly gravelly SILT of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP137	0.60	J3	MADE GROUND (Grey slightly sandy gravel including slag fragments).	MC
PRAIRIE_AUK_TP137	1.00	B4	MADE GROUND (Brown clayey sandy gravel including ash, clinker, slag and metal fragments).	PSD US for CP2
PRAIRIE_AUK_TP137	2.00	B7	Brown sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP137	2.60	J8	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP138	1.00	B2	MADE GROUND (Brown slightly clayey very sandy gravel with a high cobble content. Gravel includes ceramic, ash and brick fragments).	PSD
PRAIRIE_AUK_TP139B0.20		B2	MADE GROUND (Dark grey clayey very sandy gravel including ash, slag and brick fragments).	PSD

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP139B3.00		J4	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP145	1.00	B3	MADE GROUND (Grey clayey very sandy gravel including ash, concrete and slag fragments).	PSD CP2
PRAIRIE_AUK_TP145	1.90	J5	Grey slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP145	2.40	B6	Brown slightly sandy slightly gravelly CLAY.	CP2 CBR
PRAIRIE_AUK_TP145	2.90	J7	Laminated brown CLAY of high plasticity with silt dustings on laminae.	MC PI
PRAIRIE_AUK_TP146C1.00		J4	MADE GROUND (Brown gravel with occasional clay pockets. Gravel includes brick fragments)	MC Calorific Value US for PI
PRAIRIE_AUK_TP146C1.30		B6	MADE GROUND (Brown very sandy gravel with occasional clay pockets. Gravel includes brick fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP146C1.70		J7	Fissured brown CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP146C2.30		B8	Brown slightly sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP149	1.00	B2	MADE GROUND (Brown clayey very sandy gravel including slag fragments).	PSD
PRAIRIE_AUK_TP149	1.80	J4	Brown slightly sandy CLAY of intermediate to high plasticity.	MC PI BRE
PRAIRIE_AUK_TP149	2.20	B5	Brown silty CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP150	0.60	B2	MADE GROUND (Dark grey clayey very sandy gravel with a medium cobble content. Gravel includes slag, ash, concrete, glass, metal and brick fragments).	PSD
PRAIRIE_AUK_TP154	0.60	J1	Grey gravelly SAND.	BRE Calorific Value
PRAIRIE_AUK_TP154	1.30	J4	Brown slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP154	1.60	B5	Brown slightly sandy CLAY.	CP2
PRAIRIE_AUK_TP154	2.30	J6	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP155	0.50	B2	MADE GROUND (Dark grey slightly clayey sandy gravel with a medium cobble content. Gravel includes ash, slag and brick fragments).	PSD
PRAIRIE_AUK_TP155	1.20	J4	Brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP155	1.60	B5	Brown silty slightly sandy CLAY.	PSD SED
PRAIRIE_AUK_TP156A0.70		B4	MADE GROUND (Grey cobbles of concrete with much gravelly clay/silt).	PSD US for CP2 & CBR

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP156A	1.10	J5	Brown sandy CLAY of low plasticity.	MC PI
PRAIRIE_AUK_TP162	0.70	J1	MADE GROUND (Brown sandy gravel with occasional clay pockets).	BRE Calorific Value
PRAIRIE_AUK_TP162	0.90	B2	MADE GROUND (Brown clayey very sandy gravel including glass, slag and brick fragments).	PSD
PRAIRIE_AUK_TP162	2.50	B6	Brown slightly sandy CLAY of high plasticity.	MC PI PSD SED CP2 CBR
PRAIRIE_AUK_TP162	3.10	J7	Fissured brown silty CLAY of high plasticity.	MC PI BRE
PRAIRIE_AUK_TP163	0.50	J1	MADE GROUND (Dark brown slightly sandy gravel with occasional clay pockets. Gravel includes brick fragments)	MC US for PI
PRAIRIE_AUK_TP163	0.80	B2	MADE GROUND (Brown clayey very sandy gravel including ash and clinker).	PSD CP2 CBR
PRAIRIE_AUK_TP163	1.60	J4	Grey brown slightly sandy CLAY of intermediate plasticity.	MC PI BRE
PRAIRIE_AUK_TP163	1.70	B5	Brown slightly sandy CLAY.	CP2 CBR
PRAIRIE_AUK_TP165	1.50	J4	MADE GROUND (Brown slightly sandy gravel including brick fragments).	BRE
PRAIRIE_AUK_TP165	1.80	B5	MADE GROUND (Dark brown slightly clayey/silty sandy gravel and cobbles including brick, slag and concrete fragments).	PSD US for CP4 & CBR
PRAIRIE_AUK_TP165	2.50	J6	MADE GROUND (Brown slightly sandy gravel including brick fragments).	Calorific Value
PRAIRIE_AUK_TP165	2.80	B7	MADE GROUND (Dark grey brown sandy gravel with occasional clay pockets and a medium cobble content. Gravel includes ash, slag and brick fragments).	PSD
PRAIRIE_AUK_TP167	1.80	B4	MADE GROUND (Dark grey slightly clayey/silty sandy gravel with a medium cobble content. Gravel includes slag, brick and concrete fragments).	PSD
PRAIRIE_AUK_TP168	1.40	J6	Fissured brown slightly sandy CLAY.	MC
PRAIRIE_AUK_TP168	1.60	B7	Brown slightly sandy CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP169	0.80	B2	MADE GROUND (Brown clayey very sandy gravel including ash, slag and brick fragments).	PSD US for CP4
PRAIRIE_AUK_TP172	0.60	B2	MADE GROUND (Dark grey brown cobbles of brick and slag fragments).	PSD US for CP2 & CBR
PRAIRIE_AUK_TP173	0.60	J1	MADE GROUND (Brown slightly sandy gravel including brick fragments).	MC BRE
PRAIRIE_AUK_TP173	0.80	B2	MADE GROUND (Brown very sandy gravel with clay pockets).	PSD SED CP2 CBR
PRAIRIE_AUK_TP174	1.20	J4	Brown slightly sandy CLAY of low to intermediate plasticity with occasional sand pockets.	MC PI

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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP175	0.60	B2	MADE GROUND (Grey brown clayey sandy cobbles of brick, slag and concrete fragments).	PSD US for CBR
PRAIRIE_AUK_TP175	1.40	J4	Grey slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP176	0.50	B2	MADE GROUND (Brown clayey sandy gravel including ash and clinker fragments).	PSD
PRAIRIE_AUK_TP176	1.50	J4	Brown slightly organic slightly sandy CLAY.	MC BRE
PRAIRIE_AUK_TP176	2.00	B5	Brown slightly sandy CLAY.	PSD SED CP2 CBR
PRAIRIE_AUK_TP177	0.90	J4	MADE GROUND (Brown slightly sandy clay of high plasticity).	MC PI
PRAIRIE_AUK_TP177	1.80	B7	MADE GROUND (Brown cobbles with much gravel).	PSD US for CP2 & CBR
PRAIRIE_AUK_TP178	0.40	J1	MADE GROUND (Dark brown slightly sandy gravel including brick fragments).	MC BRE Calorific Value
PRAIRIE_AUK_TP178	0.60	B2	MADE GROUND (Brown clayey very sandy gravel including ash, clinker and slag fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP178	1.60	B5	Brown with grey mottling slightly sandy slightly gravelly CLAY of very high plasticity.	MC PI BRE CP2
PRAIRIE_AUK_TP179	0.20	J1	MADE GROUND (Dark brown sandy gravel including brick fragments).	BRE Calorific Value
PRAIRIE_AUK_TP179	0.40	B2	MADE GROUND (Dark grey clayey/silty very gravelly sand with a medium cobble content. Gravel includes ash, clinker, slag and brick fragments).	PSD CP2
PRAIRIE_AUK_TP179	1.70	J5	Brown with grey veining slightly sandy CLAY of high plasticity.	MC PI
PRAIRIE_AUK_TP179	1.80	B6	Brown CLAY.	IS for CBR
PRAIRIE_AUK_TP181	0.50	B2	MADE GROUND (Brown very sandy gravel with occasional clay pockets. Gravel includes ash and clinker fragments).	PSD CBR US for CP2
PRAIRIE_AUK_TP181	1.10	B4	MADE GROUND (Brown cobbles of brick and slag fragments).	PSD
PRAIRIE_AUK_TP181	1.80	J5	Grey slightly silty sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP181	2.00	B6	Brown with grey veining slightly sandy CLAY.	CBR
PRAIRIE_AUK_TP182	0.30	J1	MADE GROUND (Dark brown sandy gravel including brick fragments).	Calorific Value
PRAIRIE_AUK_TP182	0.60	B2	MADE GROUND (Dark grey clayey very sandy gravel including slag fragments).	PSD CP2 CBR
PRAIRIE_AUK_TP182	1.30	J4	Fissured brown slightly sandy slightly gravelly CLAY of intermediate plasticity.	MC PI

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Signed :- <i>msero</i>	Name :- <i>M SELKIN</i>	Page 10 of 11	
	Date of issue :- 06/11/2020	Certificate No :- SD/4251/10	AEG Contract No. :- 4251	




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LABORATORY SAMPLE DESCRIPTION SHEET

Exploratory Hole No.	Sample Depth (m)	ID	Description	Laboratory Tests/Remarks
PRAIRIE_AUK_TP182	1.60	B5	Brown with grey veining slightly sandy CLAY. (Sample has a strong hydro-carbon odour).	CBR
PRAIRIE_AUK_TP183	0.80	B2	MADE GROUND (Grey cobbles of concrete, slag and brick fragments).	PSD
PRAIRIE_AUK_TP185	3.50	B2	MADE GROUND (Brown slightly sandy slightly gravelly clay. Gravel includes brick and metal fragments).	PSD SED
PRAIRIE_AUK_TP188	0.40	J1	MADE GROUND (Dark brown sandy gravel including brick fragments).	MC BRE Calorific Value
PRAIRIE_AUK_TP188	0.60	B2	MADE GROUND (Dark brown clayey/silty sandy gravel including ash and clinker fragments).	PSD US for CP2 & CBR
PRAIRIE_AUK_TP189	0.30	J1	MADE GROUND (Brown slightly sandy gravel).	Calorific Value
PRAIRIE_AUK_TP189	0.50	B2	MADE GROUND (Dark brown clayey/silty very sandy gravel including slag and brick fragments).	PSD CBR
PRAIRIE_AUK_TP189	1.40	J3	Brown slightly sandy CLAY of high plasticity.	MC PI BRE
PRAIRIE_AUK_TP189	1.50	B4	Grey brown mottled slightly sandy slightly gravelly CLAY.	PSD SED CP2
PRAIRIE_AUK_TP189	2.70	J5	Red brown slightly sandy CLAY of intermediate plasticity.	MC PI
PRAIRIE_AUK_TP189	2.90	B6	Brown with grey veining slightly sandy slightly gravelly CLAY.	PSD SED CP2

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Signed :- 	Name :-	Page 11 of 11	
	Date of issue :- 03/11/2020	Certificate No :- SD/4251/11	AEG Contract No. :- 4251	

Moisture Content/Plasticity Index and Moisture Content



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MOISTURE CONTENT CERTIFICATE

BS 1377 : Part 2 : Clause 3.2

Exploratory Hole No.	Sample Depth (m)	Sample ID	Specific Depth (m)	Moisture Content (%)	Date Tested	Remarks
PRAIRIE_AUK_BH101	18.00	J33	18.00	16.6	17/06/2020	
PRAIRIE_AUK_BH108	4.50	U7	4.50	23.7	10/07/2020	
PRAIRIE_AUK_BH109	1.20	U6	1.20	21.8	10/07/2020	
PRAIRIE_AUK_BH110	15.00	J27	15.00	25.1	10/07/2020	
PRAIRIE_AUK_TP101	0.60	J3	0.60	14.4	28/09/2020	
PRAIRIE_AUK_TP115	1.40	J4	1.40	8.3	06/10/2020	
PRAIRIE_AUK_TP117	1.50	J4	1.50	11.8	06/10/2020	
PRAIRIE_AUK_TP118	0.50	J1	0.50	14.3	12/10/2020	
PRAIRIE_AUK_TP119	0.50	J1	0.50	7	19/10/2020	
PRAIRIE_AUK_TP124	1.00	J3	1.00	15.9	28/09/2020	
PRAIRIE_AUK_TP131	1.00	J3	1.00	12.2	29/09/2020	
PRAIRIE_AUK_TP137	0.60	J3	0.60	18	12/10/2020	
PRAIRIE_AUK_TP146C	1.00	J4	1.00	24.4	29/09/2020	
PRAIRIE_AUK_TP163	0.50	J1	0.50	14.6	30/09/2020	
PRAIRIE_AUK_TP168	1.40	J6	1.40	32.8	29/09/2020	
PRAIRIE_AUK_TP173	0.60	J1	0.60	20.9	29/09/2020	
PRAIRIE_AUK_TP176	1.50	J4	1.50	36.2	29/09/2020	
PRAIRIE_AUK_TP178	0.40	J1	0.40	27.7	29/09/2020	
PRAIRIE_AUK_TP182	1.30	J4	1.30	21.8	29/09/2020	
PRAIRIE_AUK_TP188	0.40	J1	0.40	16.1	29/09/2020	

For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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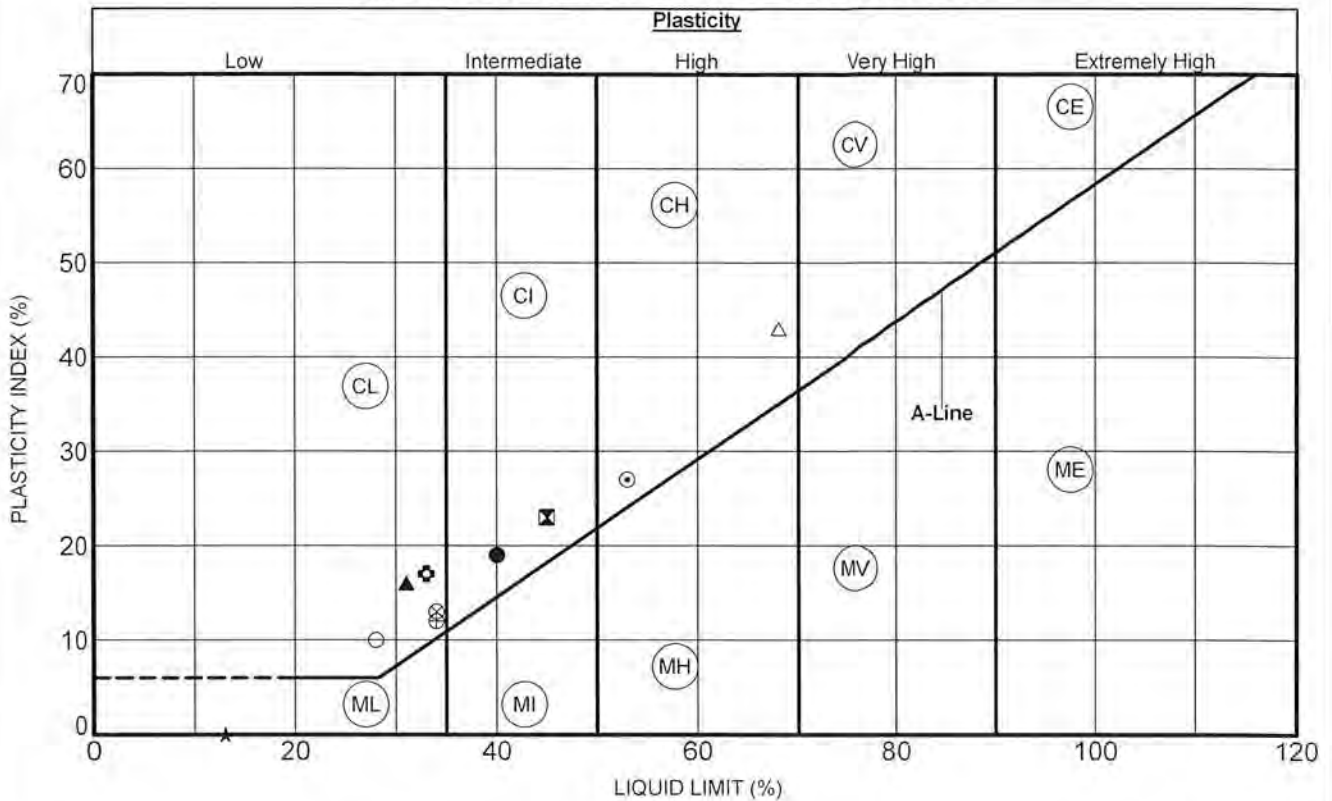
	Signed :- <i>msore</i>	Name :- <i>M. Sore</i>	Page 1 of 1	
	Date of issue :- 02/11/2020	Certificate No :- MC/4251/1	AEG Contract No. :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I_L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_BH1013.00	U2		3.25	40	21	19	0.20	Natural		24.8	17/06/2020
⊠PRAIRIE_AUK_BH1015.00	U7		5.17	45	22	23	0.51	Natural		33.7	17/06/2020
▲PRAIRIE_AUK_BH10111.00	U18		11.25	31	15	16	0.04	Natural		15.7	17/06/2020
★PRAIRIE_AUK_BH10112.50	J21		12.50		13			Natural		12.0	17/06/2020
⊙PRAIRIE_AUK_BH1032.95	J3		2.95	53	26	27	0.01	Natural		26.2	06/10/2020
◆PRAIRIE_AUK_BH1038.50	J18		8.50	33	16	17	0.00	Natural		16.0	06/10/2020
○PRAIRIE_AUK_BH10313.00	J27		13.00	28	18	10	0.61	Natural		24.1	06/10/2020 #
△PRAIRIE_AUK_BH1045.95	J3		5.95	68	25	43	-0.03	Natural		23.7	19/10/2020
⊗PRAIRIE_AUK_BH10411.00	J13		11.00	34	21	13	-0.26	Natural		17.6	20/10/2020
⊕PRAIRIE_AUK_BH10415.50	C21		16.50	34	22	12	-1.09	Air Dried	49.0	8.9	12/10/2020

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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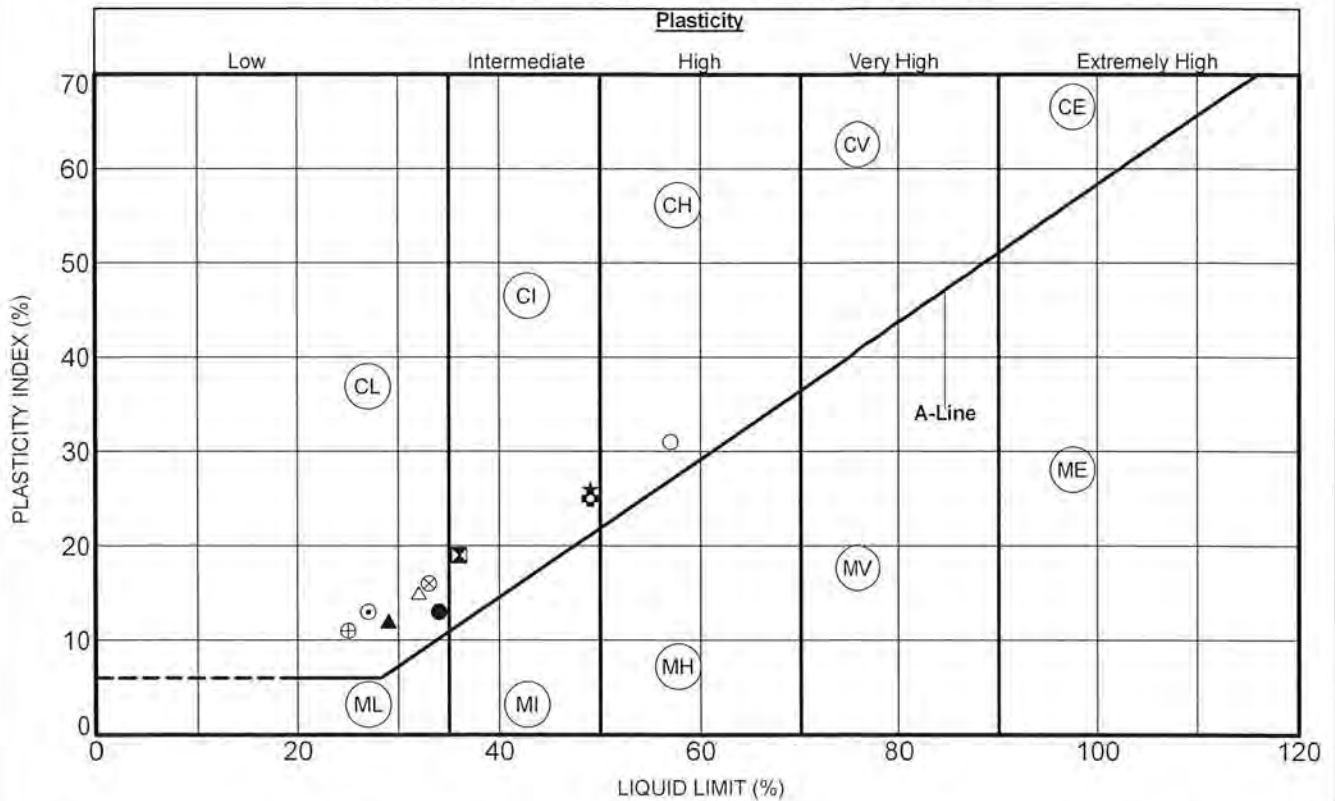
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	Date of issue :- 03/11/2020	Certificate No :- PI/4251/1	AEG Contract No. :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I_L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_BH10417.50	C23	18.00	34	21	13	-1.07	Air Dried	36.0	7.1	12/10/2020	
⊠PRAIRIE_AUK_BH1065.95	J3	5.95	36	17	19	-0.08	Natural		15.5	06/10/2020	
▲PRAIRIE_AUK_BH1069.50	J10	9.50	29	17	12	-0.10	Natural		15.8	06/10/2020	
★PRAIRIE_AUK_BH1073.00	U2	3.35	49	23	26	0.55	Natural		37.3	10/07/2020	
⊙PRAIRIE_AUK_BH1077.50	J12	7.50	27	14	13	0.18	Natural		16.3	10/07/2020	
⊛PRAIRIE_AUK_BH1082.50	U2	2.55	49	24	25	0.07	Natural		25.8	10/07/2020	
○PRAIRIE_AUK_BH1082.95	J3	2.95	57	26	31	0.13	Natural		30.0	06/10/2020	
△PRAIRIE_AUK_BH1085.00	J9	5.00	32	17	15	-0.09	Natural		15.6	10/07/2020	
⊗PRAIRIE_AUK_BH1086.50	J12	6.50	33	17	16	-0.39	Air Dried	35.0	10.7	10/07/2020 #	
⊕PRAIRIE_AUK_BH1088.00	J15	8.00	25	14	11	-0.17	Natural		12.1	06/10/2020	

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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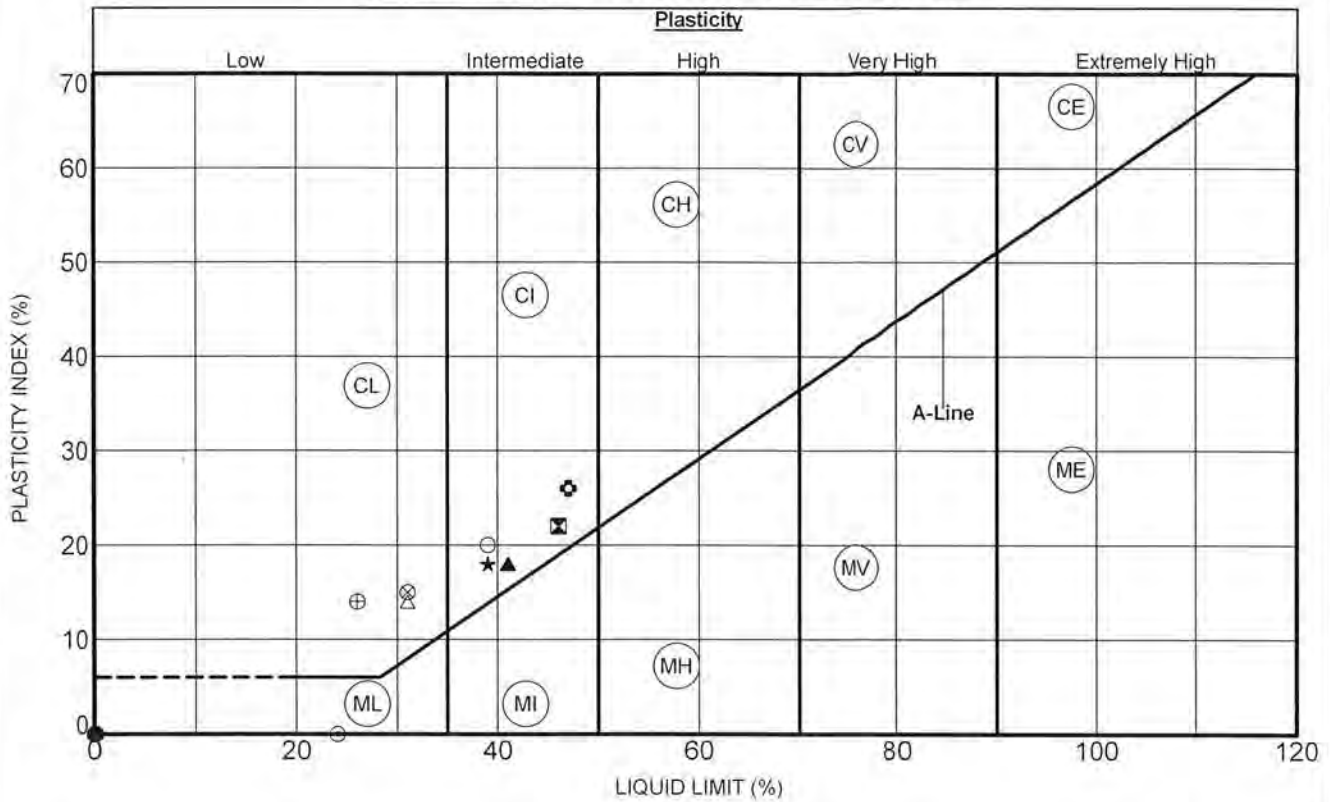
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	Date of issue :- 03/11/2020	Certificate No :- PI/4251/2	AEG Contract No. :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_BH1088.50	J16	8.50	NP	NP	NP			Natural		15.3	10/07/2020
⊠PRAIRIE_AUK_BH1090.50	B4	0.50	46	24	22	0.00		Natural		23.9	13/07/2020
▲PRAIRIE_AUK_BH1091.65	J7	1.65	41	23	18	0.12		Natural		25.1	10/07/2020
★PRAIRIE_AUK_BH1093.45	J14	3.45	39	21	18	0.11		Natural		23.0	10/07/2020
⊙PRAIRIE_AUK_BH1096.00	J22	6.00	39	24				Air Dried	39.0	10.8	10/07/2020
⬢PRAIRIE_AUK_BH1103.00	U2	3.00	47	21	26	0.31		Natural		29.1	13/07/2020
○PRAIRIE_AUK_BH1105.00	U6	5.35	39	19	20	0.21		Natural		23.2	10/07/2020
△PRAIRIE_AUK_BH1108.00	U12	8.35	31	17	14	0.85		Natural		28.9	10/07/2020
⊗PRAIRIE_AUK_BH1109.50	J15	9.50	31	16	15	-0.23		Natural		12.6	10/07/2020
⊕PRAIRIE_AUK_BH11013.50	J23	13.50	26	12	14	0.04		Natural		12.6	10/07/2020

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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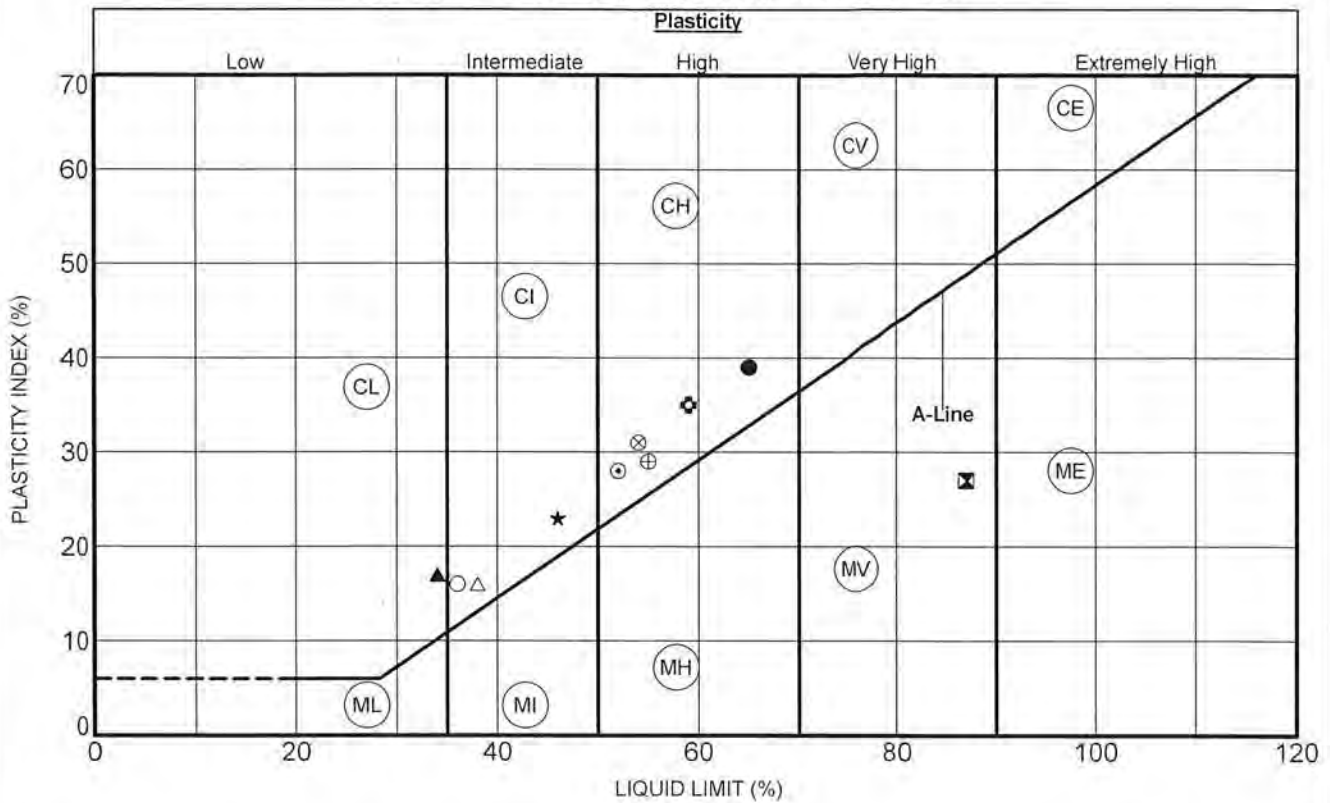
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	Date of issue :- 03/11/2020	Certificate No :- PI/4251/3	AEG Contract No :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT



Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_TP101	2.50	J10	2.50	65	26	39	-0.35	Natural		12.2	28/09/2020
■PRAIRIE_AUK_TP1014	4.40	J14	4.40	87	60	27	1.07	Natural		89.0	28/09/2020 #
▲PRAIRIE_AUK_TP102	1.50	J6	1.50	34	17	17	0.05	Natural		17.8	06/10/2020 #
★PRAIRIE_AUK_TP104	2.00	J8	2.00	46	23	23	-0.08	Natural		21.2	28/09/2020 #
⊙PRAIRIE_AUK_TP105	1.80	J4	1.80	52	24	28	0.22	Natural		30.1	28/09/2020
◆PRAIRIE_AUK_TP106	2.50	J6	2.50	59	24	35	0.06	Natural		26.2	06/10/2020 #
○PRAIRIE_AUK_TP106	3.50	J8	3.50	36	20	16	-0.23	Natural		16.3	06/10/2020 #
△PRAIRIE_AUK_TP107	0.50	J3	0.50	38	22	16	-0.02	Natural		21.7	29/09/2020 #
⊗PRAIRIE_AUK_TP107	2.30	J8	2.30	54	23	31	0.13	Natural		27.1	29/09/2020
⊕PRAIRIE_AUK_TP110	2.50	J6	2.50	55	26	29	0.24	Natural		32.9	06/10/2020 #

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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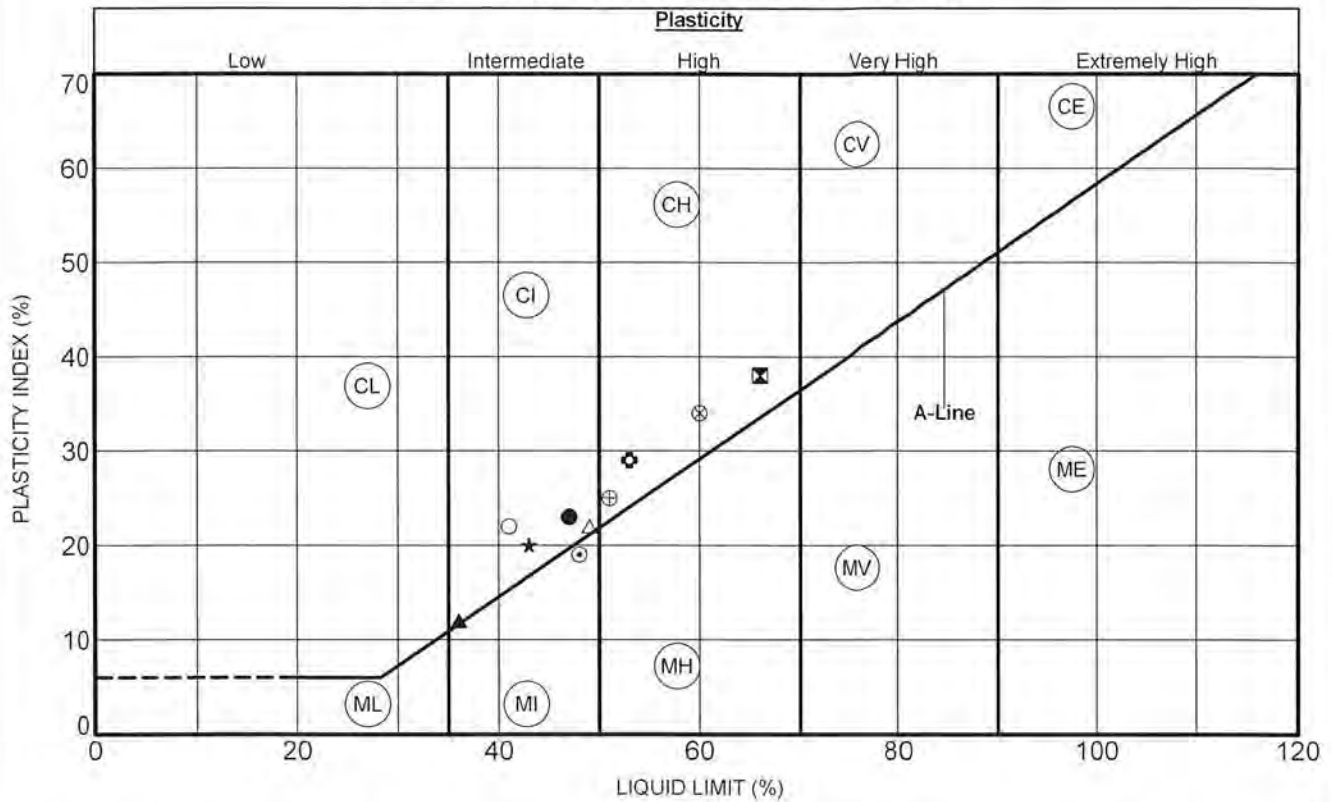
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	Date of issue :- 03/11/2020	Certificate No :- PI/4251/4	AEG Contract No. :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT



Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested	
●PRAIRIE_AUK_TP111	2.00	J6	2.00	47	24	23	-0.10	Natural		21.8	06/10/2020	#
⊠PRAIRIE_AUK_TP112	2.70	J9	2.70	66	28	38	0.07	Natural		30.6	06/10/2020	
▲PRAIRIE_AUK_TP1123	3.00	J10	3.00	36	24	12	0.32	Natural		27.8	06/10/2020	
★PRAIRIE_AUK_TP1132	2.50	J7	2.50	43	23	20	0.20	Natural		26.9	28/09/2020	
⊙PRAIRIE_AUK_TP1161	1.60	J5	1.60	48	29	19	-0.12	Natural		26.8	20/10/2020	
◆PRAIRIE_AUK_TP1162	2.00	J7	2.00	53	24	29	0.03	Air Dried	99.0	24.9	20/10/2020	
○PRAIRIE_AUK_TP1163	3.00	J9	3.00	41	19	22	-0.07	Natural		17.5	20/10/2020	
△PRAIRIE_AUK_TP1181	1.50	J4	1.50	49	27	22	0.16	Natural		30.6	12/10/2020	#
⊗PRAIRIE_AUK_TP1182	2.20	J6	2.20	60	26	34	0.23	Natural		33.8	12/10/2020	#
⊕PRAIRIE_AUK_TP1192	2.50	J6	2.50	51	26	25	0.12	Natural		29.1	06/10/2020	#

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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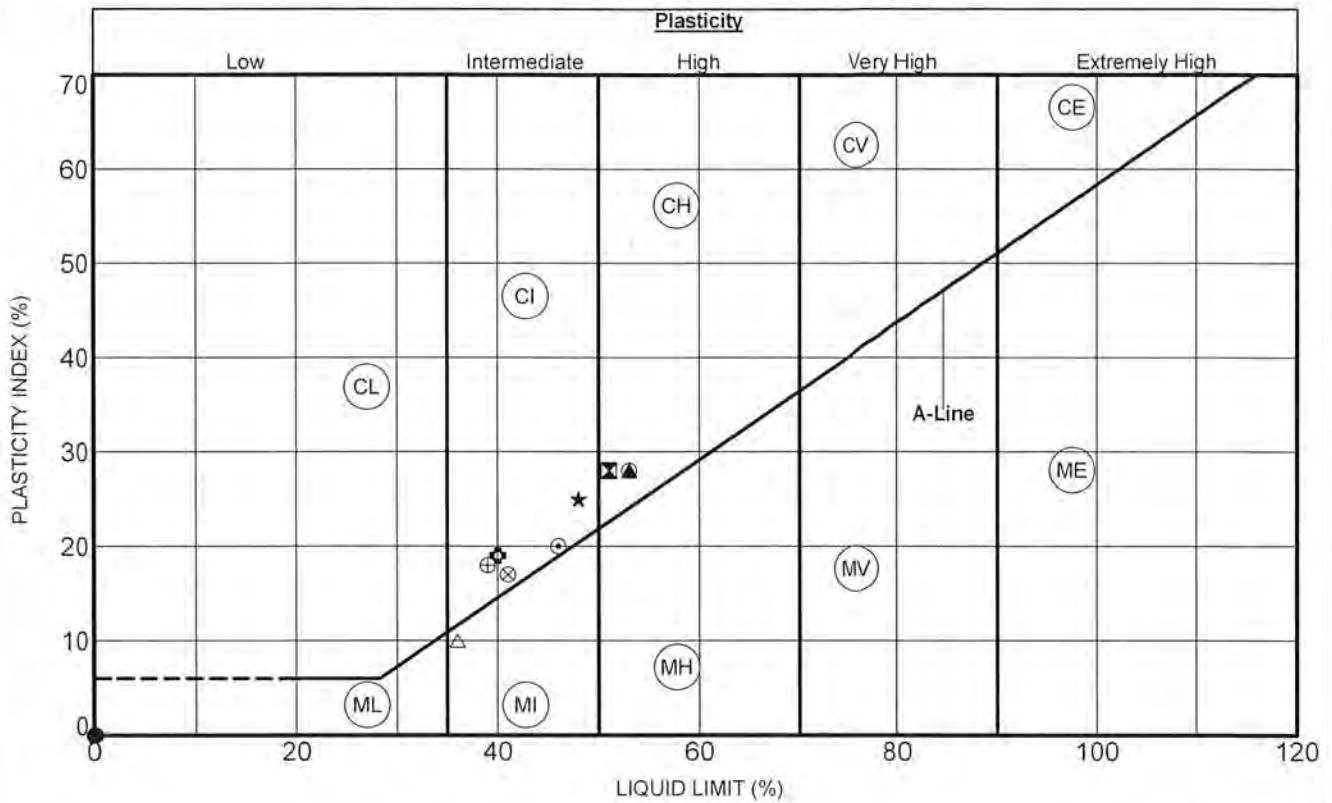
	Signed :- <i>msere</i>	Name :-	Page 5 of 8	
	Date of issue :- 03/11/2020	Certificate No :- PI/4251/5	AEG Contract No :- 4251	

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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_TP120	1.50	J4	1.50	NP	NP	NP		Natural		16.8	06/10/2020
⊠PRAIRIE_AUK_TP124	2.00	J6	2.00	51	23	28	0.08	Natural		25.1	28/09/2020
▲PRAIRIE_AUK_TP131	2.60	J7	2.60	53	25	28	0.19	Natural		30.2	28/09/2020
★PRAIRIE_AUK_TP131	3.60	J9	3.60	48	23	25	0.21	Natural		28.3	28/09/2020
⊙PRAIRIE_AUK_TP134	1.50	J4	1.50	46	26	20	-0.09	Natural		24.2	12/10/2020 #
⊙PRAIRIE_AUK_TP135	2.00	J7	2.00	40	21	19	0.15	Natural		23.8	06/10/2020 #
○PRAIRIE_AUK_TP135	2.70	J9	2.70	53	25	28	-0.02	Natural		24.5	06/10/2020 #
△PRAIRIE_AUK_TP136	1.00	J4	1.00	36	26	10	0.53	Natural		31.3	12/10/2020 #
⊗PRAIRIE_AUK_TP137	2.60	J8	2.60	41	24	17	0.22	Natural		27.8	06/10/2020
⊕PRAIRIE_AUK_TP139	3.00	J4	3.00	39	21	18	0.54	Natural		30.8	05/10/2020

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- **Prairie Site Ground Investigation Works**

Client :- **South Tees Development Corporation**



Signed :- *msone*

Name :- *M. Sone*

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Date of issue :-
03/11/2020

Certificate No :-
PI/4251/6

AEG Contract No. :-
4251

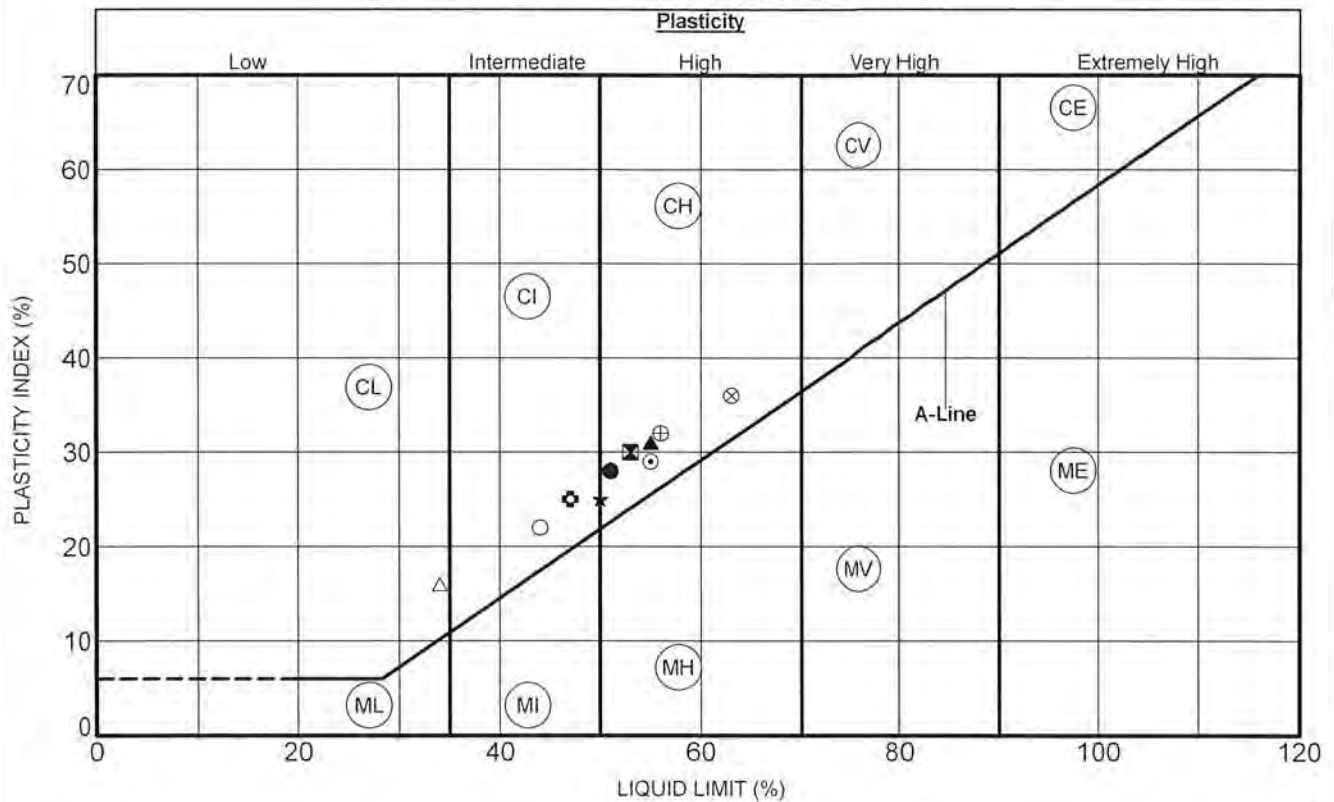


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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	I _L	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_TP145	1.90	J5	1.90	51	23	28	0.01	Natural		23.4	29/09/2020
⊠PRAIRIE_AUK_TP145	2.90	J7	2.90	53	23	30	0.24	Natural		30.2	29/09/2020 #
▲PRAIRIE_AUK_TP146	0.70	J7	1.70	55	24	31	0.09	Natural		26.8	29/09/2020 #
★PRAIRIE_AUK_TP149	1.80	J4	1.80	50	25	25	0.20	Natural		29.9	06/10/2020 #
⊙PRAIRIE_AUK_TP154	1.30	J4	1.30	55	26	29	0.04	Natural		27.2	06/10/2020
◆PRAIRIE_AUK_TP154	2.30	J6	2.30	47	22	25	0.03	Natural		22.8	05/10/2020
○PRAIRIE_AUK_TP155	1.20	J4	1.20	44	22	22	-0.19	Natural		17.8	12/10/2020
△PRAIRIE_AUK_TP156	1.10	J5	1.10	34	18	16	-0.01	Natural		17.8	06/10/2020 #
⊗PRAIRIE_AUK_TP162	2.50	B6	2.50	63	27	36	0.19	Natural	96.0	33.7	29/09/2020
⊕PRAIRIE_AUK_TP162	3.10	J7	3.10	56	24	32	0.28	Natural		33.0	29/09/2020

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve

Contract Title :-

Prairie Site Ground Investigation Works

Client :-

South Tees Development Corporation



Signed :-

msone

Name :-

Msone

Page 7 of 8

Date of issue :-

03/11/2020

Certificate No :-

PI/4251/7

AEG Contract No. :-

4251

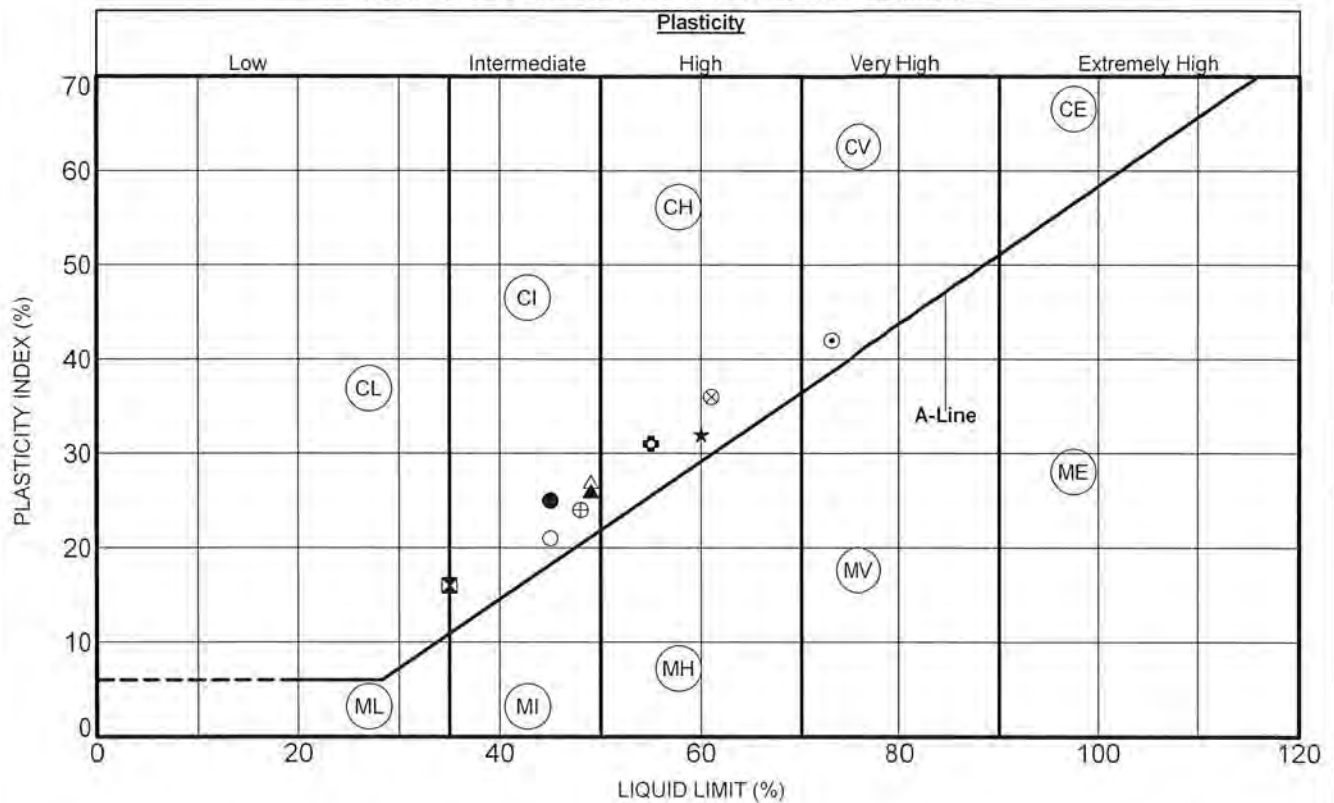


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ATTERBERG LIMITS & NATURAL MOISTURE CONTENT

Test Method :- BS 1377 : Part 2 : Clause 3.2, 4.1 to 4.4 & 5 : 1990



Exploratory Hole No.	Depth (m)	Sample Type/Ref.	Specific Depth (m)	LL	PL	PI	IL	Preparation Method	<0.425mm (%)	m/c (%)	Date Tested
●PRAIRIE_AUK_TP163	1.60	J4	1.60	45	20	25	0.22	Natural		25.6	29/09/2020
⊠PRAIRIE_AUK_TP174	1.20	J4	1.20	35	19	16	0.41	Natural		25.6	28/09/2020
▲PRAIRIE_AUK_TP175	1.40	J4	1.40	49	23	26	0.08	Natural		25.1	29/09/2020
★PRAIRIE_AUK_TP177	0.90	J4	0.90	60	28	32	0.20	Natural		34.5	28/09/2020
⊙PRAIRIE_AUK_TP178	1.60	B5	1.60	73	31	42	0.43	Natural		49.1	30/09/2020
⊛PRAIRIE_AUK_TP179	1.70	J5	1.70	55	24	31	0.23	Natural		31.1	29/09/2020
○PRAIRIE_AUK_TP181	1.80	J5	1.80	45	24	21	-0.04	Natural		23.1	29/09/2020
△PRAIRIE_AUK_TP182	1.30	J4	1.30	49	22	27	-0.01	Natural		21.8	29/09/2020
⊗PRAIRIE_AUK_TP189	1.40	J3	1.40	61	25	36	0.08	Natural		27.9	29/09/2020
⊕PRAIRIE_AUK_TP189	2.70	J5	2.70	48	24	24	0.16	Natural		27.9	29/09/2020

For description of sample please refer to the Laboratory Sample Description Sheet. # = Insufficient for 4 point PI
If sample is prepared in the natural state we are unable to determine % retained on the 0.425mm test sieve.

Contract Title :- **Prairie Site Ground Investigation Works**

Client :- **South Tees Development Corporation**



Signed :-

msg

Name :-

Page 8 of 8

Date of issue :-

03/11/2020

Certificate No :-

PI/4251/8

AEG Contract No. :-

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Determination of Particle Density

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DETERMINATION OF PARTICLE DENSITY

BS1377 : Part 2 : Clause 8.2 : 1990

Exploratory Hole No.	Depth (m)	Sample Type & No.	Specific Depth (m)	Particle Density (Mg/m ³)	Date Tested
PRAIRIE_AUK_BH101	3.00	U2	3.00	2.61	18/06/2020
PRAIRIE_AUK_BH101	11.00	U18	11.00	2.69	18/06/2020
PRAIRIE_AUK_BH108	3.50	B5	3.50	2.61	27/07/2020

For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Prairie Site Ground Investigation Works	Client :- South Tees Development Corporation
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	Signed :- <i>msene</i>	Name :- <i>M. DELNIAH</i>	Page 1 of 1	
	Date of issue :- 03/11/2020	Certificate No :- PD/4251/1	AEG Contract No. :- 4251	

Particle Size Distribution Sieving and Sedimentation

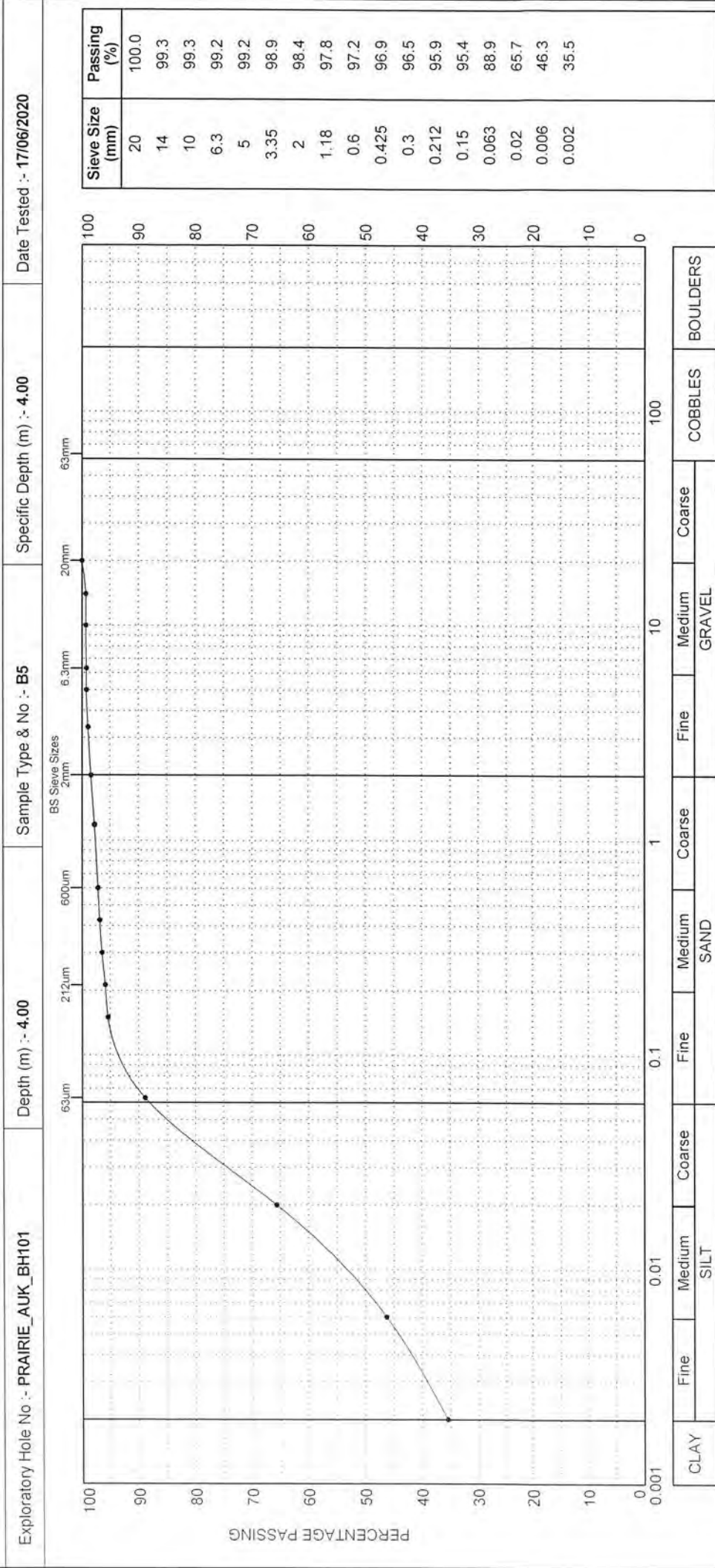


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

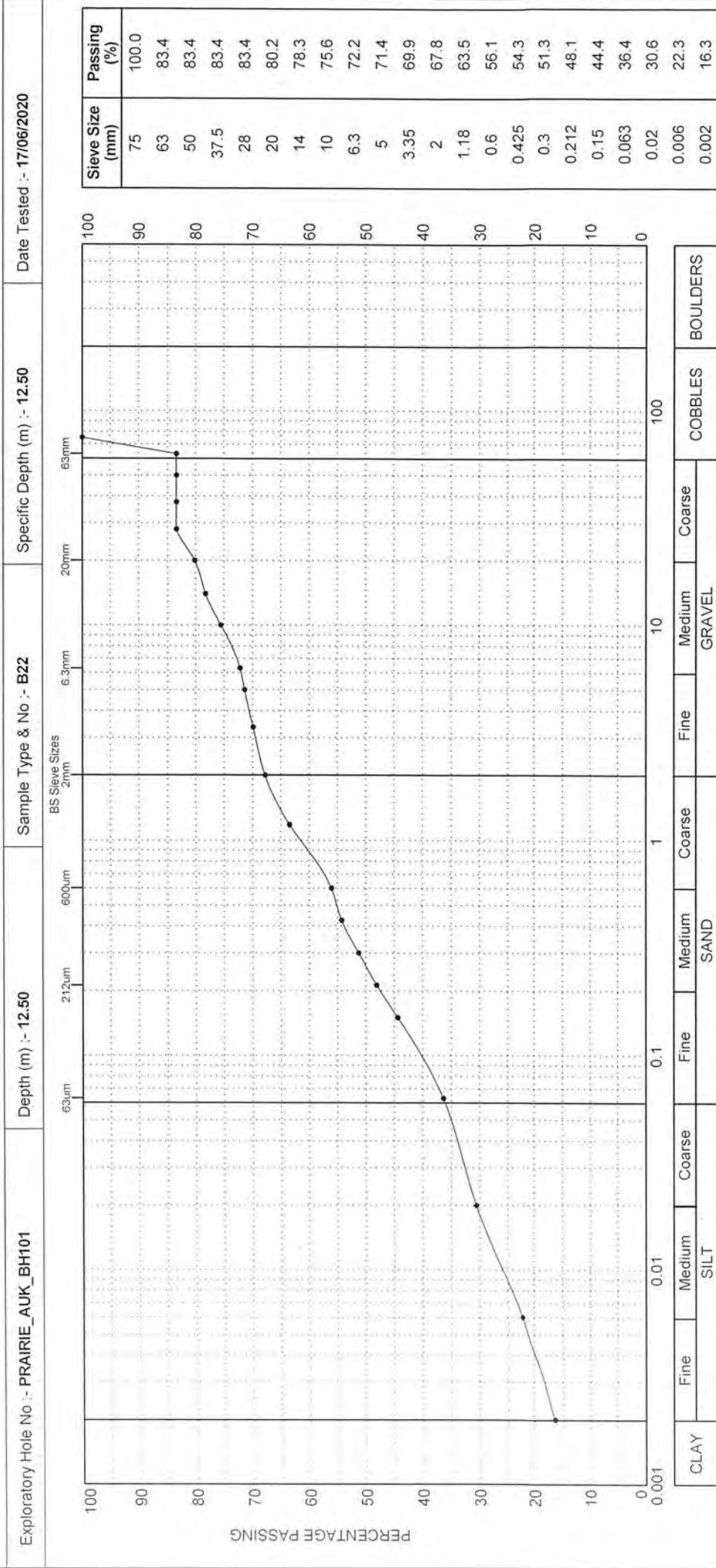
	Page 1 of 1	AEG Contract No :- 4251
	Certificate No :- PSD/4251/PRAIRIE_AUK_BH101/B5/4.00 Date of issue :- 29/06/2020 Signed :- <i>M. Sene</i> Name :-	Contract Title :- Prairie Site Ground Investigation Works Client :- South Tees Development Corporation

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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

	Page 1 of 1	AEG Contract No. :- 4251
	Certificate No. :- PSD/4251/PRAIRIE_AUK_BH101/B22/12.50 Signed :- <i>MSO</i> Name :-	
Date of issue :- 29/06/2020	Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works

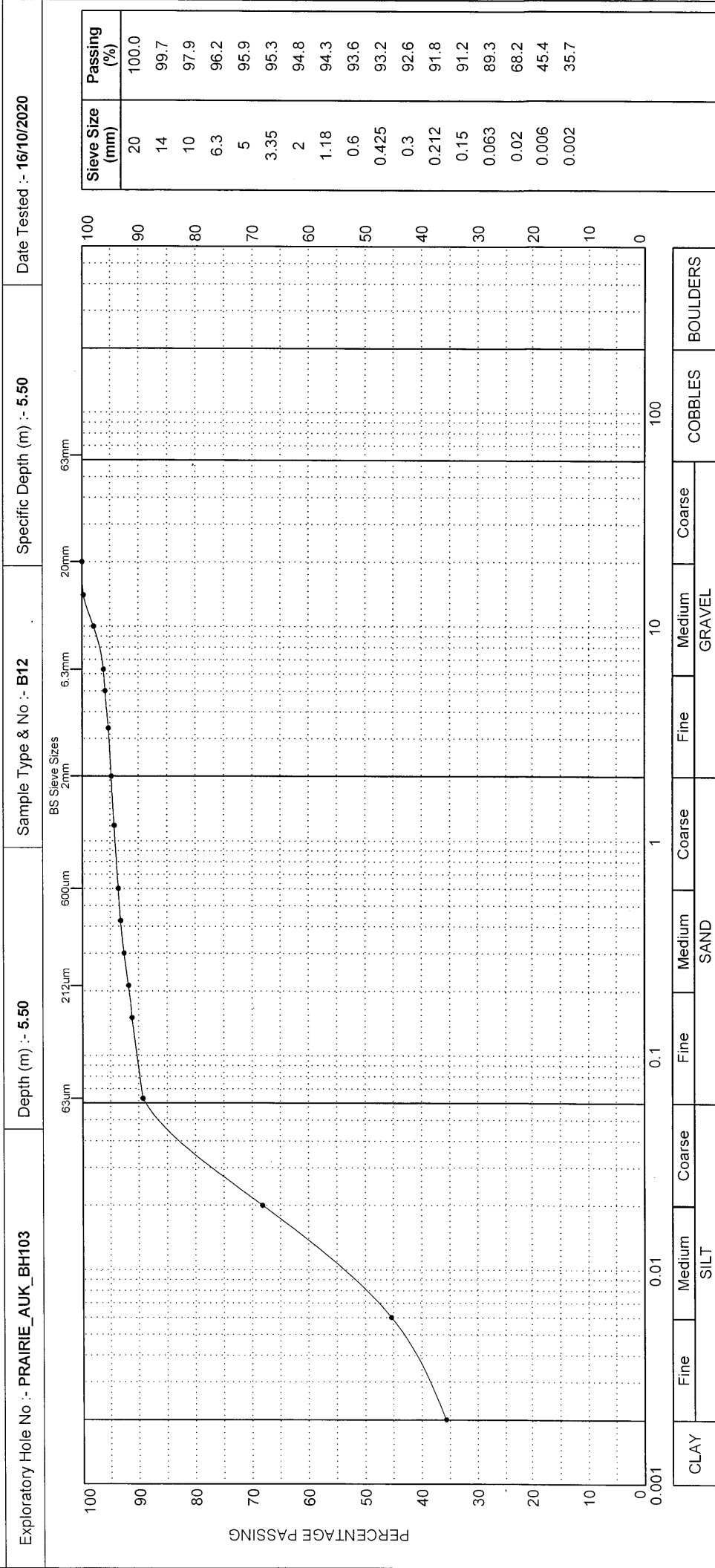


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

Date of issue :- 23/10/2020	Certificate No :- PSD/4251/PRAIRIE_AUK_BH103/B12/5.50	Signed :- <i>MSR</i>	Name :- MSR	Page 1 of 1
Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works		AEG Contract No :- 4251	

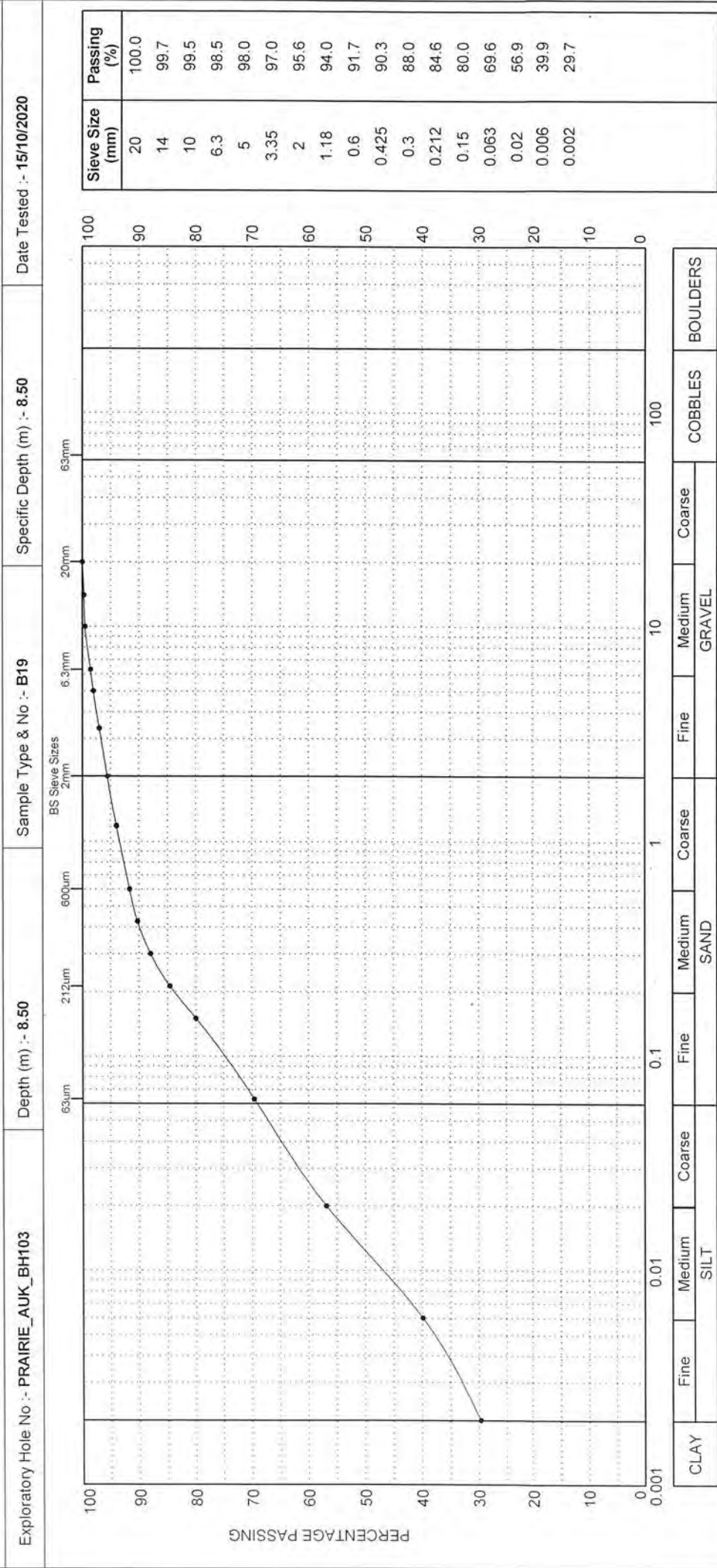


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



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Date of issue :- 23/10/2020	Certificate No :- PSD/4251/PRAIRIE_AUK_BH103/B19/8.50	Signed :- <i>msore</i>	Name :- <i>msore</i>
Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works		

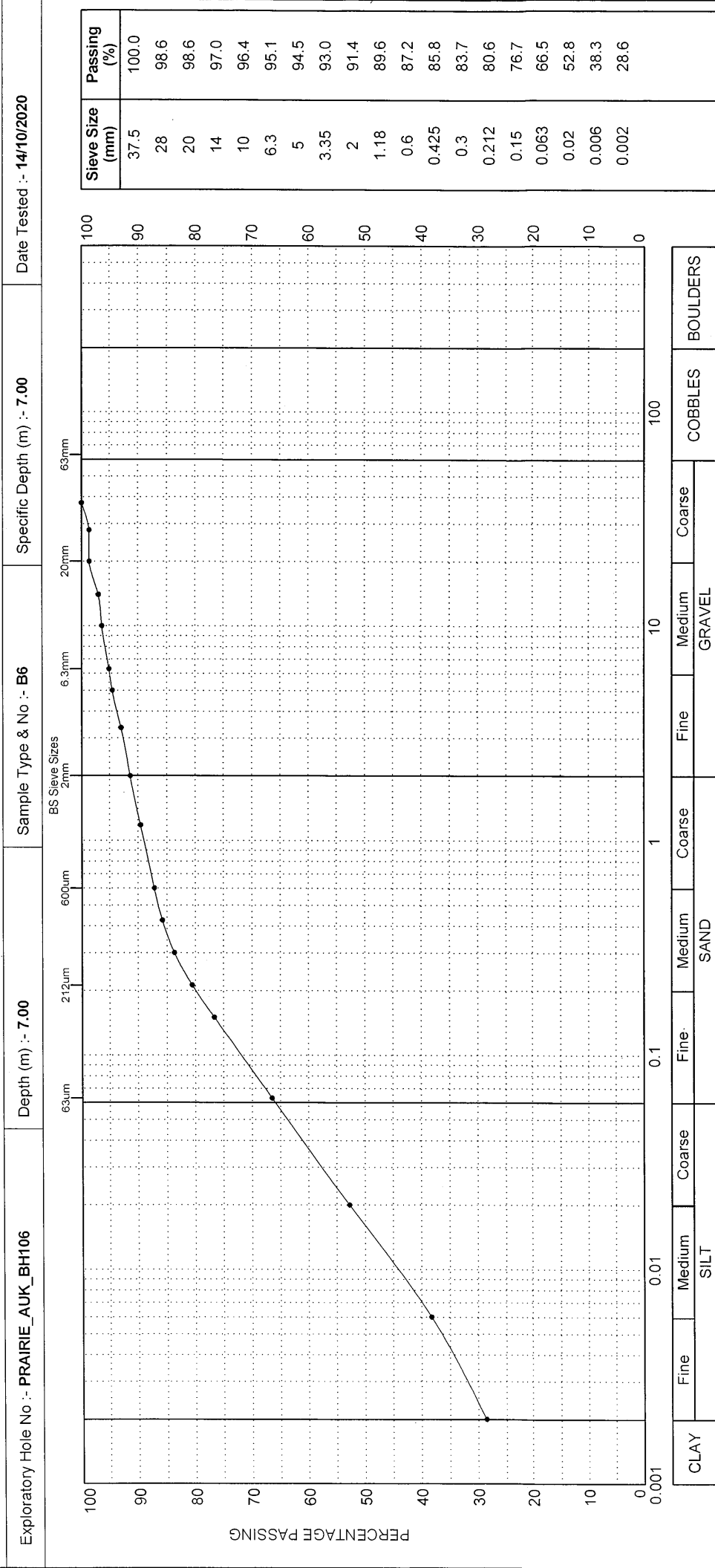
Page 1 of 1
AEG Contract No :- 4251

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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

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	Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works	AEG Contract No :- 4251	

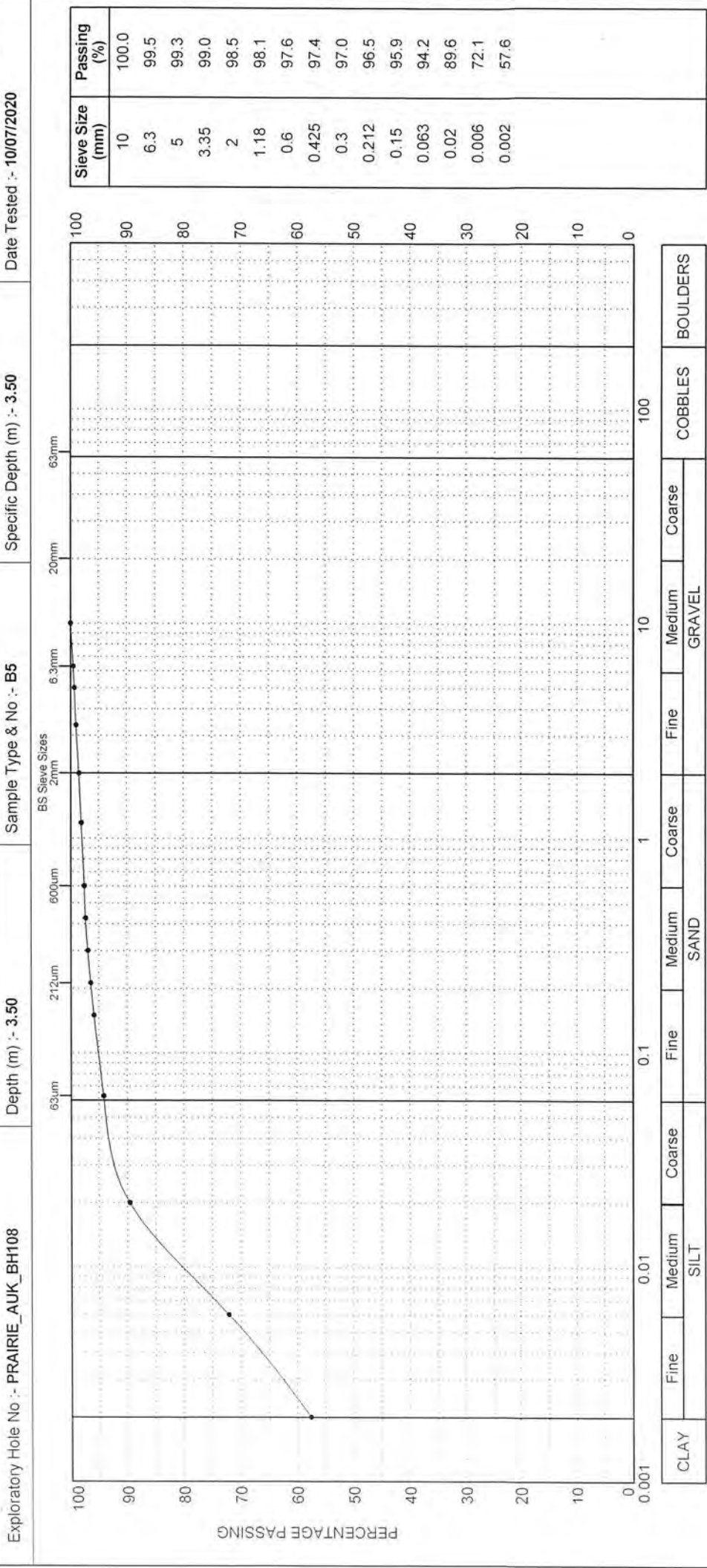


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

EGS	Date of issue :- 30/07/2020	Certificate No :- PSD/4251/PRAIRIE_AUK_BH108/B5/3.50	Signed :- <i>msore</i>	Name :- M DELVIAK
Client :- South Tees Development Corporation	Contract Title :-	Prairie Site Ground Investigation Works		
AEG Contract No :- 4251		Page 1 of 1		

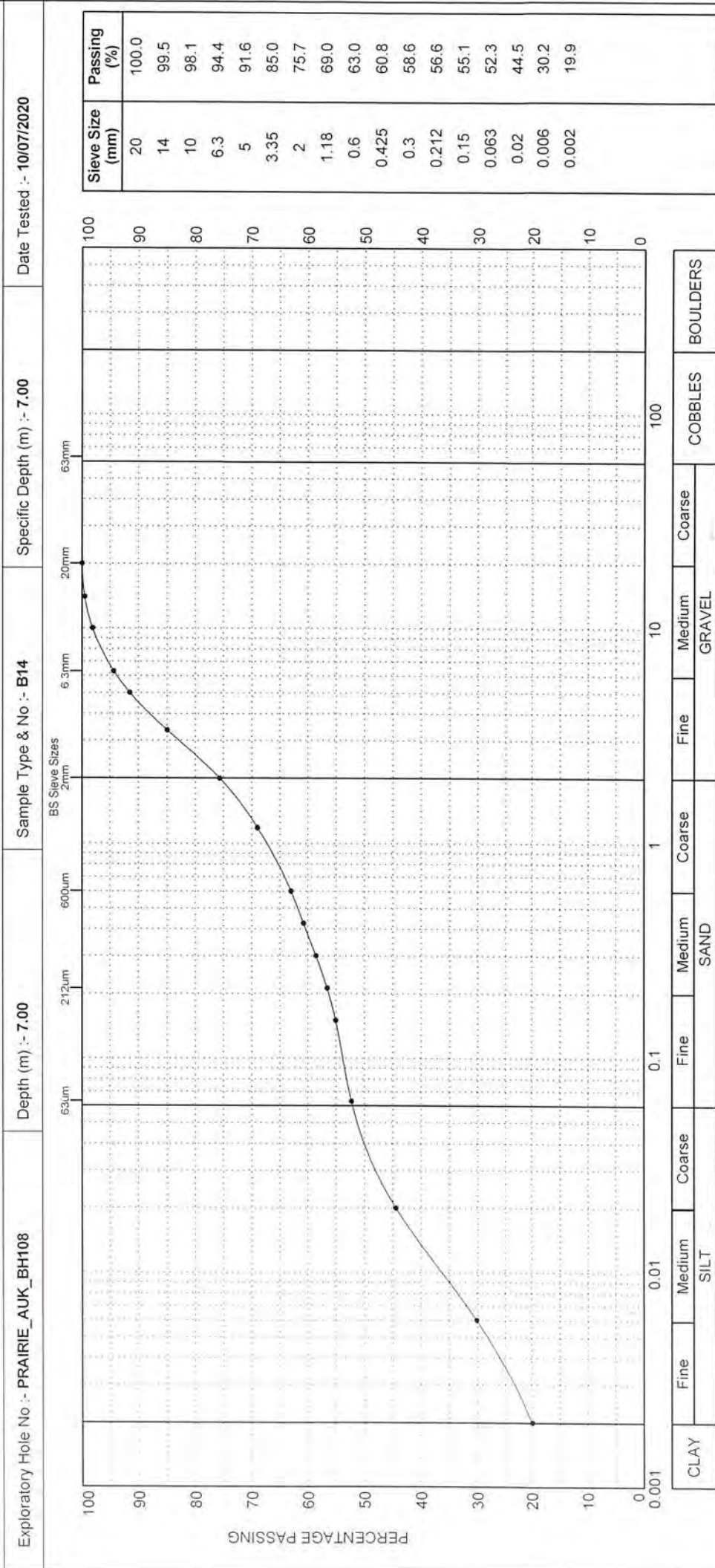


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

	Date of issue :- 30/07/2020	Certificate No :- PSD/4251/PRAIRIE_AUK_BH108/B14/7.00	Signed :- <i>M. Sene</i>	Name :- <i>M. Sene</i>	Page 1 of 1
	Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works	AEG Contract No :- 4251		

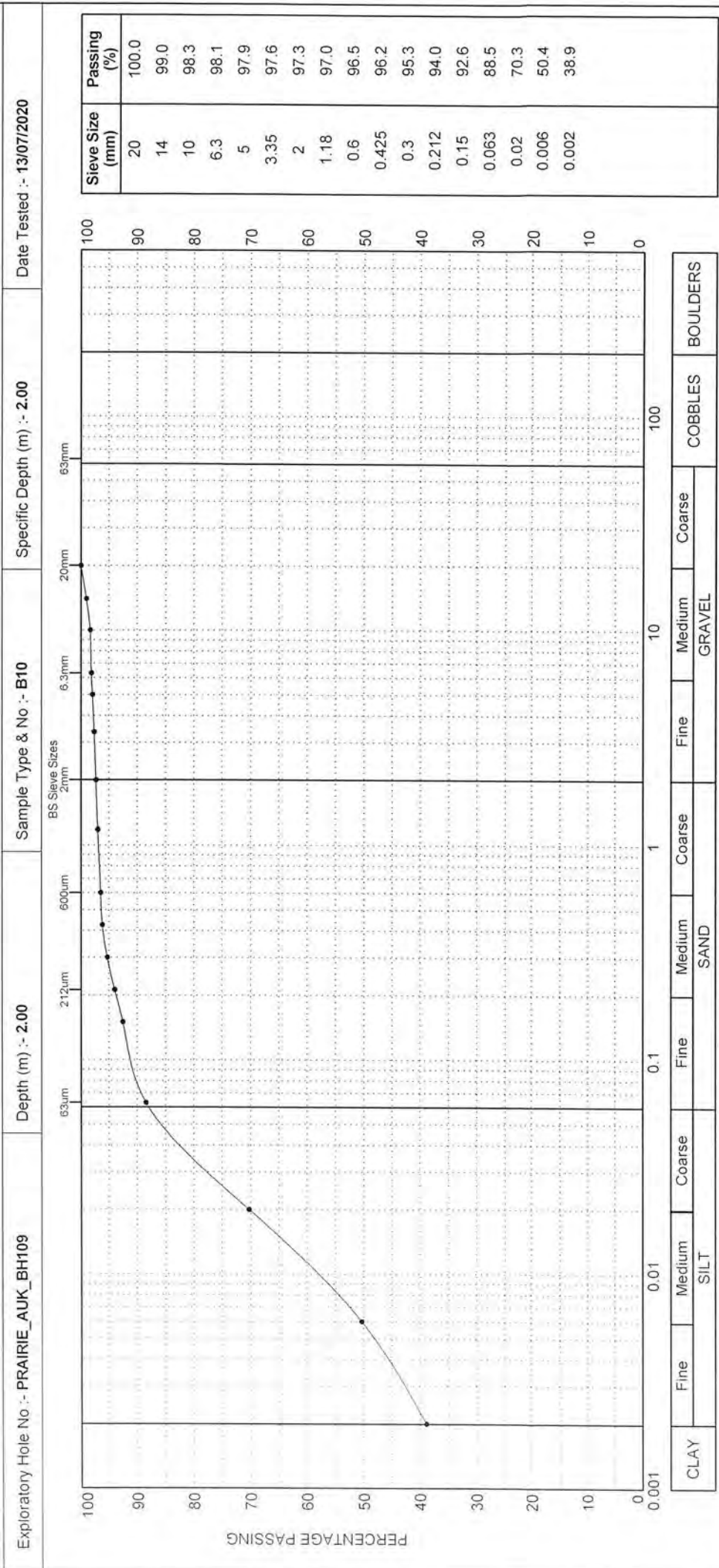


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PARTICLE SIZE DISTRIBUTION

BS1377 : Part 2 : Clause 9.2 & 9.4 : 1990



For description of sample please refer to the Laboratory Sample Description Sheet

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Client :- South Tees Development Corporation	Contract Title :- Prairie Site Ground Investigation Works		AEG Contract No :- 4251	



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