

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 735 300 Fax: 01772 735 999

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
LF6H01	09/07/2021 00:00	8.10m 50mm SP	7.28	4.57	2.71	No LNAPL/DNAPL detected.
LF6H01	12/07/2021 00:00	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF6H01	13/07/2021 00:00	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF6H01	09/08/2021 16:59	8.10m 50mm SP	7.28	4.68	2.60	No LNAPL/DNAPL detected.
LF6H01	17/09/2021 15:50	8.10m 50mm SP	7.28	4.71	2.57	No LNAPL/DNAPL detected.
LF6H01	12/10/2021 15:07	8.10m 50mm SP	7.28	4.64	2.64	No LNAPL/DNAPL detected.
LF6H01	15/11/2021 15:25	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF6H01	09/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF6H01	12/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF6H01	13/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF6H01	09/08/2021 16:46	38.00m 50mm SP	7.28	4.73	2.55	No LNAPL/DNAPL detected.
LF6H01	17/09/2021 16:12	38.00m 50mm SP	7.28	4.55	2.73	No LNAPL/DNAPL detected.
LF6H01	12/10/2021 14:53	38.00m 50mm SP	7.28	4.61	2.67	No LNAPL/DNAPL detected.
LF6H01	15/11/2021 15:12	38.00m 50mm SP	7.28	4.56	2.72	No LNAPL/DNAPL detected.
MS6H03	30/06/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS6H03	01/07/2021 00:00	2.70m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS6H03	02/07/2021 00:00	2.70m 50mm SP	4.67	1.36	3.31	No LNAPL/DNAPL detected.
MS6H03	05/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS6H03	06/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS6H03	07/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

Preliminary Onshore Ground Investigation for NZT

Client :-

AECOM



Certificate No. :-
GWMR/4339/1

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS1BH03	08/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS1BH03	09/07/2021 00:00	2.70m 50mm SP	4.67	1.40	3.27	No LNAPL/DNAPL detected.
MS1BH03	12/07/2021 00:00	2.70m 50mm SP	4.67	1.70	2.97	No LNAPL/DNAPL detected.
MS1BH03	13/07/2021 00:00	2.70m 50mm SP	4.67	1.70	2.97	No LNAPL/DNAPL detected.
MS1BH03	09/08/2021 14:49	2.70m 50mm SP	4.67	1.89	2.78	No LNAPL/DNAPL detected.
MS1BH03	17/09/2021 09:45	2.70m 50mm SP	4.67	1.97	2.70	No LNAPL/DNAPL detected.
MS1BH03	12/10/2021 09:49	2.70m 50mm SP	4.67	1.87	2.80	No LNAPL/DNAPL detected.
MS1BH03	15/11/2021 14:46	2.70m 50mm SP	4.67	1.91	2.76	No LNAPL/DNAPL detected.
MS1BH03	30/06/2021 00:00	28.50m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS1BH03	01/07/2021 00:00	28.50m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS1BH03	02/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS1BH03	05/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS1BH03	06/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS1BH03	07/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS1BH03	08/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS1BH03	09/07/2021 00:00	28.50m 50mm SP	4.67	1.45	3.22	No LNAPL/DNAPL detected.
MS1BH03	12/07/2021 00:00	28.50m 50mm SP	4.67	1.50	3.17	No LNAPL/DNAPL detected.
MS1BH03	13/07/2021 00:00	28.50m 50mm SP	4.67	1.50	3.17	No LNAPL/DNAPL detected.
MS1BH03	09/08/2021 15:07	28.50m 50mm SP	4.67	1.77	2.90	No LNAPL/DNAPL detected.
MS1BH03	17/09/2021 11:49	28.50m 50mm SP	4.67	1.90	2.77	No LNAPL/DNAPL detected.

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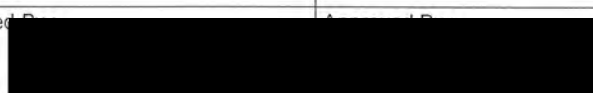
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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H03	12/10/2021 10:00	28.50m 50mm SP	4.67	1.87	2.80	No LNAPL/DNAPL detected.
MS8H03	15/11/2021 14:34	28.50m 50mm SP	4.67	1.98	2.69	No LNAPL/DNAPL detected. Sulphur odour
MS8H04	28/06/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS8H04	29/06/2021 00:00	5.00m 50mm SP	5.01	2.11	2.90	No LNAPL/DNAPL detected.
MS8H04	30/06/2021 00:00	5.00m 50mm SP	5.01	2.11	2.90	No LNAPL/DNAPL detected.
MS8H04	01/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS8H04	02/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS8H04	05/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS8H04	06/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS8H04	07/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS8H04	08/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS8H04	09/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS8H04	12/07/2021 00:00	5.00m 50mm SP	5.01	2.13	2.88	No LNAPL/DNAPL detected.
MS8H04	13/07/2021 00:00	5.00m 50mm SP	5.01	2.13	2.88	No LNAPL/DNAPL detected.
MS8H04	09/08/2021 15:39	5.00m 50mm SP	5.01	2.30	2.71	No LNAPL/DNAPL detected.
MS8H04	17/09/2021 14:51	5.00m 50mm SP	5.01	2.34	2.67	No LNAPL/DNAPL detected.
MS8H04	12/10/2021 09:35	5.00m 50mm SP	5.01	2.32	2.69	No LNAPL/DNAPL detected.
MS8H04	15/11/2021 14:17	5.00m 50mm SP	5.01	2.35	2.66	No LNAPL/DNAPL detected.
MS8H04	28/06/2021 00:00	28.50m 50mm SP	5.01	2.17	2.84	No LNAPL/DNAPL detected.
MS8H04	29/06/2021 00:00	28.50m 50mm SP	5.01	2.17	2.84	No LNAPL/DNAPL detected.

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS18H04	30/06/2021 00:00	28.50m 50mm SP	5.01	2.18	2.83	No LNAPL/DNAPL detected.
MS18H04	01/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS18H04	02/07/2021 00:00	28.50m 50mm SP	5.01	2.16	2.85	No LNAPL/DNAPL detected.
MS18H04	05/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS18H04	06/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS18H04	07/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS18H04	08/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS18H04	09/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS18H04	12/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS18H04	13/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS18H04	09/08/2021 15:22	28.50m 50mm SP	5.01	2.29	2.72	No LNAPL/DNAPL detected.
MS18H04	17/09/2021 14:40	28.50m 50mm SP	5.01	2.34	2.67	No LNAPL/DNAPL detected.
MS18H04	12/10/2021 09:26	28.50m 50mm SP	5.01	2.51	2.50	No LNAPL/DNAPL detected.
MS18H04	15/11/2021 14:05	28.50m 50mm SP	5.01	2.40	2.61	No LNAPL/DNAPL detected.
MS18H05	28/06/2021 00:00	12.50m 50mm SP	7.48	4.40	3.08	No LNAPL/DNAPL detected.
MS18H05	29/06/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS18H05	30/06/2021 00:00	12.50m 50mm SP	7.48	4.40	3.08	No LNAPL/DNAPL detected.
MS18H05	01/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS18H05	02/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS18H05	05/07/2021 00:00	12.50m 50mm SP	7.48	4.00	3.48	No LNAPL/DNAPL detected.

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H05	06/07/2021 00:00	12.50m 50mm SP	7.48	3.39	4.09	No LNAPL/DNAPL detected.
MS8H05	07/07/2021 00:00	12.50m 50mm SP	7.48	3.45	4.03	No LNAPL/DNAPL detected.
MS8H05	08/07/2021 00:00	12.50m 50mm SP	7.48	3.39	4.09	No LNAPL/DNAPL detected.
MS8H05	09/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS8H05	12/07/2021 00:00	12.50m 50mm SP	7.48	4.38	3.10	No LNAPL/DNAPL detected.
MS8H05	13/07/2021 00:00	12.50m 50mm SP	7.48	4.38	3.10	No LNAPL/DNAPL detected.
MS8H05	09/08/2021 11:45	12.50m 50mm SP	7.48	4.47	3.01	No LNAPL/DNAPL detected.
MS8H05	17/09/2021 12:15	12.50m 50mm SP	7.48	4.55	2.93	No LNAPL/DNAPL detected.
MS8H05	12/10/2021 08:46	12.50m 50mm SP	7.48	4.61	2.87	No LNAPL/DNAPL detected.
MS8H05	15/11/2021 09:58	12.50m 50mm SP	7.48	4.61	2.87	No LNAPL/DNAPL detected.
MS8H05	28/06/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS8H05	29/06/2021 00:00	29.90m 50mm SP	7.48	5.11	2.37	No LNAPL/DNAPL detected.
MS8H05	30/06/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS8H05	01/07/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS8H05	02/07/2021 00:00	29.90m 50mm SP	7.48	5.11	2.37	No LNAPL/DNAPL detected.
MS8H05	05/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS8H05	06/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS8H05	07/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS8H05	08/07/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS8H05	09/07/2021 00:00	29.90m 50mm SP	7.48	5.15	2.33	No LNAPL/DNAPL detected.

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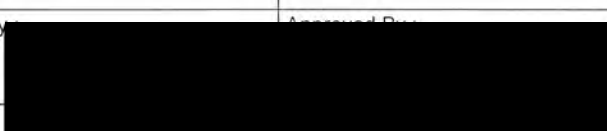


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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H05	12/07/2021 00:00	29.90m 50mm SP	7.48	5.14	2.34	No LNAPL/DNAPL detected.
MS8H05	13/07/2021 00:00	29.90m 50mm SP	7.48	5.14	2.34	No LNAPL/DNAPL detected.
MS8H05	09/08/2021 11:59	29.90m 50mm SP	7.48	5.25	2.23	No LNAPL/DNAPL detected.
MS8H05	17/09/2021 12:08	29.90m 50mm SP	7.48	5.61	1.87	No LNAPL/DNAPL detected.
MS8H05	12/10/2021 08:36	29.90m 50mm SP	7.48	5.64	1.84	No LNAPL/DNAPL detected.
MS8H05	15/11/2021 09:40	29.90m 50mm SP	7.48	5.69	1.79	No LNAPL/DNAPL detected.
MS8H07	13/07/2021 00:00	4.60m 50mm SP	7.33	4.21	3.12	No LNAPL/DNAPL detected.
MS8H07	09/08/2021 14:16	4.60m 50mm SP	7.33	4.29	3.04	No LNAPL/DNAPL detected.
MS8H07	17/09/2021 09:18	4.60m 50mm SP	7.33	4.31	3.02	No LNAPL/DNAPL detected.
MS8H07	12/10/2021 10:14	4.60m 50mm SP	7.33	Damp		No LNAPL/DNAPL detected.
MS8H07	15/11/2021 11:17	4.60m 50mm SP	7.33	4.39	2.94	No LNAPL/DNAPL detected.
MS8H07	13/07/2021 00:00	7.30m 50mm SP	7.33	4.16	3.17	No LNAPL/DNAPL detected.
MS8H07	09/08/2021 14:28	7.30m 50mm SP	7.33	4.30	3.03	No LNAPL/DNAPL detected.
MS8H07	17/09/2021 11:22	7.30m 50mm SP	7.33	4.33	3.00	No LNAPL/DNAPL detected.
MS8H07	12/10/2021 10:23	7.30m 50mm SP	7.33	4.09	3.24	No LNAPL/DNAPL detected.
MS8H07	15/11/2021 11:00	7.30m 50mm SP	7.33	4.38	2.95	No LNAPL/DNAPL detected.
MS8H08	14/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS8H08	15/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS8H08	16/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS8H08	17/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS18H08	18/06/2021 14:15	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	21/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	22/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	23/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	24/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	25/06/2021 15:40	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	28/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	29/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	30/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	01/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	02/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	05/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	06/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	07/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	08/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	09/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	12/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	13/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS18H08	09/08/2021 13:58	5.70m 50mm SP	8.75	Damp		No LNAPL/DNAPL detected.
MS18H08	17/09/2021 08:44	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

Preliminary Onshore Ground Investigation for NZT

Client :-

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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H08	12/10/2021 09:01	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS8H08	15/11/2021 10:42	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS8H08	14/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS8H08	15/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS8H08	16/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS8H08	17/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS8H08	18/06/2021 14:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS8H08	21/06/2021 00:00	13.30m 50mm SP	8.75	5.57	3.18	No LNAPL/DNAPL detected.
MS8H08	22/06/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS8H08	23/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	24/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	25/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	28/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	29/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	30/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	01/07/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS8H08	02/07/2021 00:00	13.30m 50mm SP	8.75	5.59	3.16	No LNAPL/DNAPL detected.
MS8H08	05/07/2021 00:00	13.30m 50mm SP	8.75	5.62	3.13	No LNAPL/DNAPL detected.
MS8H08	06/07/2021 00:00	13.30m 50mm SP	8.75	5.62	3.13	No LNAPL/DNAPL detected.
MS8H08	07/07/2021 00:00	13.30m 50mm SP	8.75	5.62	3.13	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

Preliminary Onshore Ground Investigation for NZT

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H08	08/07/2021 00:00	13.30m 50mm SP	8.75	5.61	3.14	No LNAPL/DNAPL detected.
MS8H08	09/07/2021 00:00	13.30m 50mm SP	8.75	5.59	3.16	No LNAPL/DNAPL detected.
MS8H08	12/07/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS8H08	13/07/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS8H08	09/08/2021 13:45	13.30m 50mm SP	8.75	5.70	3.05	No LNAPL/DNAPL detected.
MS8H08	17/09/2021 08:57	13.30m 50mm SP	8.75	5.73	3.02	No LNAPL/DNAPL detected.
MS8H08	12/10/2021 09:13	13.30m 50mm SP	8.75	5.71	3.04	No LNAPL/DNAPL detected.
MS8H08	15/11/2021 10:15	13.30m 50mm SP	8.75	5.74	3.01	No LNAPL/DNAPL detected.
MS8H09	09/08/2021 16:02	4.50m 50mm SP	7.47	Damp		No LNAPL/DNAPL detected.
MS8H09	17/09/2021 12:20	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS8H09	12/10/2021 08:11	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS8H09	15/11/2021 09:17	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS8H09	09/08/2021 16:16	8.70m 50mm SP	7.47	4.64	2.83	No LNAPL/DNAPL detected.
MS8H09	17/09/2021 12:36	8.70m 50mm SP	7.47	4.43	3.04	No LNAPL/DNAPL detected.
MS8H09	12/10/2021 08:23	8.70m 50mm SP	7.47	4.60	2.87	No LNAPL/DNAPL detected.
MS8H09	15/11/2021 08:52	8.70m 50mm SP	7.47	4.34	3.13	No LNAPL/DNAPL detected.
MS8H11	16/06/2021 00:00	4.40m 50mm SP	7.26	3.68	3.58	No LNAPL/DNAPL detected.
MS8H11	17/06/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS8H11	18/06/2021 14:45	4.40m 50mm SP	7.26	3.72	3.54	No LNAPL/DNAPL detected.
MS8H11	21/06/2021 00:00	4.40m 50mm SP	7.26	3.71	3.55	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

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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

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H11	22/06/2021 00:00	4.40m 50mm SP	7.26	3.72	3.54	No LNAPL/DNAPL detected.
MS8H11	23/06/2021 00:00	4.40m 50mm SP	7.26	3.75	3.51	No LNAPL/DNAPL detected.
MS8H11	24/06/2021 00:00	4.40m 50mm SP	7.26	3.76	3.50	No LNAPL/DNAPL detected.
MS8H11	25/06/2021 15:20	4.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MS8H11	28/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS8H11	29/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS8H11	30/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS8H11	01/07/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS8H11	02/07/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS8H11	05/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS8H11	06/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS8H11	07/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS8H11	08/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS8H11	09/07/2021 00:00	4.40m 50mm SP	7.26	3.75	3.51	No LNAPL/DNAPL detected.
MS8H11	12/07/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS8H11	13/07/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS8H11	09/08/2021 13:29	4.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MS8H11	17/09/2021 14:35	4.40m 50mm SP	7.26	Dry		No LNAPL/DNAPL detected.
MS8H11	12/10/2021 10:58	4.40m 50mm SP	7.26	Dry		No LNAPL/DNAPL detected.
MS8H11	15/11/2021 16:25	4.40m 50mm SP	7.26	Dry		

SP = Standpipe - SPIE = Standpipe Piezometer.

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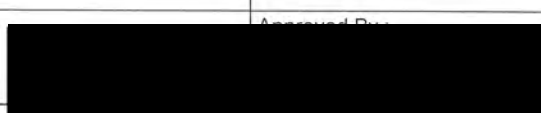
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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MSBH11	16/06/2021 00:00	11.40m 50mm SP	7.26	3.91	3.35	No LNAPL/DNAPL detected.
MSBH11	17/06/2021 00:00	11.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MSBH11	18/06/2021 14:30	11.40m 50mm SP	7.26	3.98	3.28	No LNAPL/DNAPL detected.
MSBH11	21/06/2021 00:00	11.40m 50mm SP	7.26	3.99	3.27	No LNAPL/DNAPL detected.
MSBH11	22/06/2021 00:00	11.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MSBH11	23/06/2021 00:00	11.40m 50mm SP	7.26	3.89	3.37	No LNAPL/DNAPL detected.
MSBH11	24/06/2021 00:00	11.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MSBH11	25/06/2021 15:30	11.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MSBH11	28/06/2021 00:00	11.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MSBH11	29/06/2021 00:00	11.40m 50mm SP	7.26	4.05	3.21	No LNAPL/DNAPL detected.
MSBH11	30/06/2021 00:00	11.40m 50mm SP	7.26	4.07	3.19	No LNAPL/DNAPL detected.
MSBH11	01/07/2021 00:00	11.40m 50mm SP	7.26	4.08	3.18	No LNAPL/DNAPL detected.
MSBH11	02/07/2021 00:00	11.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MSBH11	02/07/2021 15:50	11.40m 50mm SP	7.26	4.10	3.16	No LNAPL/DNAPL detected.
MSBH11	05/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MSBH11	06/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MSBH11	07/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MSBH11	08/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MSBH11	09/07/2021 00:00	11.40m 50mm SP	7.26	4.05	3.21	No LNAPL/DNAPL detected.
MSBH11	12/07/2021 00:00	11.40m 50mm SP	7.26	3.90	3.36	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

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Preliminary Onshore Ground Investigation for NZT

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MSBH11	13/07/2021 00:00	11.40m 50mm SP	7.26	3.90	3.36	No LNAPL/DNAPL detected.
MSBH11	09/08/2021 13:18	11.40m 50mm SP	7.26	4.07	3.19	No LNAPL/DNAPL detected.
MSBH11	17/09/2021 14:28	11.40m 50mm SP	7.26	4.12	3.14	No LNAPL/DNAPL detected.
MSBH11	12/10/2021 11:12	11.40m 50mm SP	7.26	4.19	3.07	No LNAPL/DNAPL detected.
MSBH11	15/11/2021 16:15	11.40m 50mm SP	7.26	4.17	3.09	No LNAPL/DNAPL detected.
MSBH12	21/06/2021 00:00	20.50m 50mm SP	7.15	3.85	3.30	No LNAPL/DNAPL detected.
MSBH12	22/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	23/06/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MSBH12	24/06/2021 00:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MSBH12	25/06/2021 15:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MSBH12	28/06/2021 00:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MSBH12	29/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	30/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	01/07/2021 00:00	20.50m 50mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MSBH12	02/07/2021 00:00	20.50m 50mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MSBH12	05/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	06/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	07/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	08/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MSBH12	09/07/2021 00:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H12	12/07/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS8H12	13/07/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS8H12	09/08/2021 12:56	20.50m 50mm SP	7.15	3.81	3.34	No LNAPL/DNAPL detected.
MS8H12	17/09/2021 12:43	20.50m 50mm SP	7.15	4.05	3.10	No LNAPL/DNAPL detected.
MS8H12	12/10/2021 10:37	20.50m 50mm SP	7.15	4.09	3.06	No LNAPL/DNAPL detected.
MS8H12	15/11/2021 16:03	20.50m 50mm SP	7.15	4.01	3.14	No LNAPL/DNAPL detected.
MS8H12	22/06/2021 00:00	34.50m 25mm SP	7.15	3.85	3.30	No LNAPL/DNAPL detected.
MS8H12	23/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	24/06/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS8H12	25/06/2021 15:10	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS8H12	28/06/2021 00:00	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS8H12	29/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	30/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	01/07/2021 00:00	34.50m 25mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS8H12	02/07/2021 00:00	34.50m 25mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS8H12	05/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	06/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	07/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	08/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS8H12	09/07/2021 00:00	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

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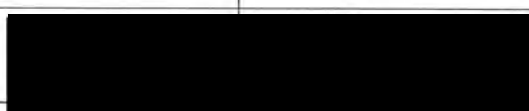


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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MSBH12	12/07/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MSBH12	13/07/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MSBH12	09/08/2021 12:40	34.50m 25mm SP	7.15	3.63	3.52	No LNAPL/DNAPL detected.
MSBH12	17/09/2021 12:50	34.50m 25mm SP	7.15	3.99	3.16	No LNAPL/DNAPL detected.
MSBH12	12/10/2021 10:47	34.50m 25mm SP	7.15	4.11	3.04	No LNAPL/DNAPL detected.
MSBH12	15/11/2021 15:49	34.50m 25mm SP	7.15	3.98	3.17	No LNAPL/DNAPL detected.
MSBH13	30/06/2021 00:00	9.50m 50mm SP	5.71	2.78	2.93	No LNAPL/DNAPL detected.
MSBH13	01/07/2021 00:00	9.50m 50mm SP	5.71	2.20	3.51	No LNAPL/DNAPL detected.
MSBH13	02/07/2021 00:00	9.50m 50mm SP	5.71	2.00	3.71	No LNAPL/DNAPL detected.
MSBH13	05/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MSBH13	06/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MSBH13	07/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MSBH13	08/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MSBH13	09/07/2021 00:00	9.50m 50mm SP	5.71	2.19	3.52	No LNAPL/DNAPL detected.
MSBH13	12/07/2021 00:00	9.50m 50mm SP	5.71	2.18	3.53	No LNAPL/DNAPL detected.
MSBH13	13/07/2021 00:00	9.50m 50mm SP	5.71	2.18	3.53	No LNAPL/DNAPL detected.
MSBH13	09/08/2021 11:22	9.50m 50mm SP	5.71	2.11	3.60	No LNAPL/DNAPL detected.
MSBH13	17/09/2021 13:08	9.50m 50mm SP	5.71	2.20	3.51	No LNAPL/DNAPL detected.
MSBH13	12/10/2021 12:27	9.50m 50mm SP	5.71	2.29	3.42	No LNAPL/DNAPL detected.
MSBH13	15/11/2021 13:47	9.50m 50mm SP	5.71	2.28	3.43	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM



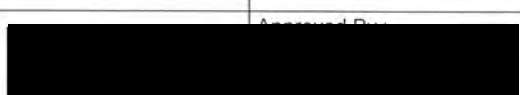
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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H13	30/06/2021 00:00	20.00m 50mm SP	5.71	2.65	3.06	No LNAPL/DNAPL detected.
MS8H13	01/07/2021 00:00	20.00m 50mm SP	5.71	2.69	3.02	No LNAPL/DNAPL detected.
MS8H13	02/07/2021 00:00	20.00m 50mm SP	5.71	2.24	3.47	No LNAPL/DNAPL detected.
MS8H13	05/07/2021 00:00	20.00m 50mm SP	5.71	1.95	3.76	No LNAPL/DNAPL detected.
MS8H13	06/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS8H13	07/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS8H13	08/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS8H13	09/07/2021 00:00	20.00m 50mm SP	5.71	1.85	3.86	No LNAPL/DNAPL detected.
MS8H13	12/07/2021 00:00	20.00m 50mm SP	5.71	1.78	3.93	No LNAPL/DNAPL detected.
MS8H13	13/07/2021 00:00	20.00m 50mm SP	5.71	1.78	3.93	No LNAPL/DNAPL detected.
MS8H13	09/08/2021 11:09	20.00m 50mm SP	5.71	1.97	3.74	No LNAPL/DNAPL detected.
MS8H13	17/09/2021 13:20	20.00m 50mm SP	5.71	2.13	3.58	No LNAPL/DNAPL detected.
MS8H13	12/10/2021 12:18	20.00m 50mm SP	5.71	2.28	3.43	No LNAPL/DNAPL detected.
MS8H13	15/11/2021 13:39	20.00m 50mm SP	5.71	2.35	3.36	No LNAPL/DNAPL detected.
MS8H14	01/07/2021 00:00	8.00m 50mm SP	7.19	3.65	3.54	No LNAPL/DNAPL detected.
MS8H14	02/07/2021 00:00	8.00m 50mm SP	7.19	3.54	3.65	No LNAPL/DNAPL detected.
MS8H14	05/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS8H14	06/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS8H14	07/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS8H14	08/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

Preliminary Onshore Ground Investigation for NZT

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H14	09/07/2021 00:00	8.00m 50mm SP	7.19	3.38	3.81	No LNAPL/DNAPL detected.
MS8H14	12/07/2021 00:00	8.00m 50mm SP	7.19	3.39	3.80	No LNAPL/DNAPL detected.
MS8H14	13/07/2021 00:00	8.00m 50mm SP	7.19	3.39	3.80	No LNAPL/DNAPL detected.
MS8H14	09/08/2021 09:55	8.00m 50mm SP	7.19	3.50	3.69	No LNAPL/DNAPL detected.
MS8H14	17/09/2021 12:57	8.00m 50mm SP	7.19	3.55	3.64	No LNAPL/DNAPL detected.
MS8H14	12/10/2021 12:51	8.00m 50mm SP	7.19	3.63	3.56	No LNAPL/DNAPL detected.
MS8H14	15/11/2021 12:21	8.00m 50mm SP	7.19	3.60	3.59	No LNAPL/DNAPL detected.
MS8H15	05/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	06/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	07/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	08/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	09/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	12/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	13/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	09/08/2021 10:40	5.00m 50mm SP	7.25	3.28	3.97	No LNAPL/DNAPL detected.
MS8H15	17/09/2021 15:10	5.00m 50mm SP	7.25	3.41	3.84	No LNAPL/DNAPL detected.
MS8H15	12/10/2021 11:42	5.00m 50mm SP	7.25	3.49	3.76	No LNAPL/DNAPL detected.
MS8H15	15/11/2021 13:21	5.00m 50mm SP	7.25	3.53	3.72	No LNAPL/DNAPL detected.
MS8H15	05/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS8H15	06/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

Client :-
AECOM

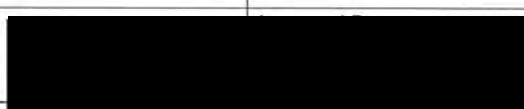


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Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

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

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MSBH15	07/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MSBH15	08/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MSBH15	09/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MSBH15	12/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MSBH15	13/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MSBH15	09/08/2021 10:23	12.00m 50mm SP	7.25	3.28	3.97	No LNAPL/DNAPL detected.
MSBH15	17/09/2021 15:22	12.00m 50mm SP	7.25	3.41	3.84	No LNAPL/DNAPL detected.
MSBH15	12/10/2021 11:33	12.00m 50mm SP	7.25	3.51	3.74	No LNAPL/DNAPL detected.
MSBH15	15/11/2021 13:08	12.00m 50mm SP	7.25	3.57	3.68	No LNAPL/DNAPL detected.
MSBH17	08/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	09/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	12/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	13/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	09/08/2021 09:11	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	17/09/2021 13:50	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	12/10/2021 13:20	5.00m 50mm SP	9.25	Damp		No LNAPL/DNAPL detected.
MSBH17	15/11/2021 12:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MSBH17	08/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MSBH17	09/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MSBH17	12/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

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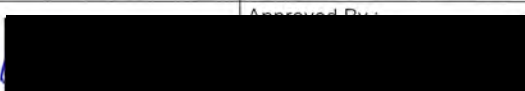
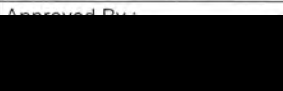
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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
MS8H17	13/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MS8H17	09/08/2021 09:32	20.00m 50mm SP	9.25	5.41	3.84	No LNAPL/DNAPL detected.
MS8H17	17/09/2021 14:09	20.00m 50mm SP	9.25	5.54	3.71	No LNAPL/DNAPL detected.
MS8H17	12/10/2021 13:10	20.00m 50mm SP	9.25	5.65	3.60	No LNAPL/DNAPL detected.
MS8H17	15/11/2021 11:46	20.00m 50mm SP	9.25	5.64	3.61	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :- Preliminary Onshore Ground Investigation for NZT			Client :- AECOM		
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Gas Monitoring Results



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GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
LFBH01	15/11/2021 15:25	Overcast	9-11	8.10m 50mm SP	7.28	4.58	2.70	-0.2	0.09	1025	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.6	20.6	<1.0	<1.0	1.8	No LNAPL/DNAPL detected.
LFBH01	15/11/2021 15:12	Overcast	9-11	38.00m 50mm SP	7.28	4.56	2.72	-8.2	-3.21	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.4	20.4	<1.0	5.0	2.9	No LNAPL/DNAPL detected.
MS\BH03	02/07/2021 00:00	Sunny	20	2.70m 50mm SP	4.67	1.36	3.31	<0.1	<0.1	1015	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	21.0	21.0	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH03	12/07/2021 00:00	Sunny	19	2.70m 50mm SP	4.67	1.70	2.97	0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.6	20.6	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH03	09/08/2021 14:49	Sunny	16-19	2.70m 50mm SP	4.67	1.89	2.78	0.2	0.02	1009	0.1	0.1	2.0	2.0	<0.1	<0.1	16.4	16.4	<1.0	3.0	3.8	No LNAPL/DNAPL detected.
MS\BH03	17/09/2021 09:45	Sunny	13-20	2.70m 50mm SP	4.67	1.97	2.70	0.0	0.02	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	18.1	18.1	<1.0	1.0	2.2	No LNAPL/DNAPL detected.
MS\BH03	12/10/2021 09:49	Overcast/ Showers	10-12	2.70m 50mm SP	4.67	1.87	2.80	0.0	0.03	1023	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	19.3	19.3	<1.0	<1.0	2.1	No LNAPL/DNAPL detected.
MS\BH03	15/11/2021 14:46	Overcast	9-11	2.70m 50mm SP	4.67	1.91	2.76	0.1	-0.10	1026	<0.1	<0.1	<2.0	<2.0	0.1	0.1	18.9	18.9	<1.0	1.0	0.2	No LNAPL/DNAPL detected.
MS\BH07	12/07/2021 00:00	Sunny	19	4.60m 50mm SP	7.33			0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.8	20.8	<1.0	<1.0		
MS\BH07	09/08/2021 14:16	Sunny	16-19	4.60m 50mm SP	7.33	4.29	3.04	0.1	-0.12	1009	0.1	0.1	2.0	2.0	0.1	0.1	20.4	20.4	<1.0	2.0	3.6	No LNAPL/DNAPL detected.
MS\BH07	17/09/2021 09:18	Sunny	13-20	4.60m 50mm SP	7.33	4.31	3.02	0.0	0.09	1012	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.5	20.6	<1.0	<1.0	3.9	No LNAPL/DNAPL detected.

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT				Client :- AECOM				AEG Contract No :- 4339	
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GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
MS\BH07	12/10/2021 10:14	Overcast/ Showers	10-12	4.60m 50mm SP	7.33	Damp		0.1	0.07	1024	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.5	20.5	<1.0	<1.0	4.1	No LNAPL/DNAPL detected.
MS\BH07	15/11/2021 11:17	Overcast	9-11	4.60m 50mm SP	7.33	4.39	2.94	0.1	-0.03	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.9	20.9	<1.0	1.0	<0.1	No LNAPL/DNAPL detected.
MS\BH08	18/06/2021 14:15	Cool/Overcast	15	5.70m 50mm SP	8.75	Dry		<0.1	<0.1	1016	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.6	20.6	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH08	25/06/2021 15:40	Overcast	11.5	5.70m 50mm SP	8.75	Dry		0.0	0.00	1016	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.8	20.8	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH08	02/07/2021 00:00	Sunny	20	5.70m 50mm SP	8.75	Dry		0.0	0.00	1015	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.9	20.9	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH08	12/07/2021 00:00	Sunny	19	5.70m 50mm SP	8.75	Dry		0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	21.0	21.0	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH08	09/08/2021 13:58	Sunny	16-19	5.70m 50mm SP	8.75	Damp		0.3	0.07	1008	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.3	20.3	1.0	<1.0	1.3	No LNAPL/DNAPL detected.
MS\BH08	17/09/2021 08:44	Sunny	13-20	5.70m 50mm SP	8.75	Dry		0.0	0.08	1012	<0.1	<0.1	<2.0	<2.0	0.1	<0.1	20.2	20.2	<1.0	4.0	0.8	No LNAPL/DNAPL detected.
MS\BH08	12/10/2021 09:01	Overcast/ Showers	10-12	5.70m 50mm SP	8.75	Dry		0.0	0.19	1023	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.6	20.6	<1.0	5.0	0.8	No LNAPL/DNAPL detected.
MS\BH08	15/11/2021 10:42	Overcast	9-11	5.70m 50mm SP	8.75	Dry		0.1	0.10	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.3	20.3	<1.0	7.0	0.3	No LNAPL/DNAPL detected.
MS\BH09	09/08/2021 16:02	Sunny	16-19	4.50m 50mm SP	7.47	Damp		0.1	-0.95	1008	0.2	0.2	4.0	4.0	0.6	0.6	18.0	18.0	<1.0	<1.0	5.4	No LNAPL/DNAPL detected.

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT				Client :- AECOM				AEG Contract No :- 4339	
	Date of Issue :- 20/12/2021		Page No. :- 2 of 4		Checked By :-		Approved By :-		Certificate No. :- MON/4339/2	

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 735 300 **Fax:** 01772 735 999

GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
MS\BH09	17/09/2021 12:20	Sunny	13-20	4.50m 50mm SP	7.47	Dry		0.0	0.22	1012	<0.1	<0.1	<2.0	<2.0	0.5	0.5	18.8	18.8	<1.0	<1.0	2.9	No LNAPL/DNAPL detected.
MS\BH09	12/10/2021 08:11	Overcast/ Showers	10-12	4.50m 50mm SP	7.47	Dry		0.0	0.12	1022	<0.1	<0.1	<2.0	<2.0	0.7	0.7	18.8	18.8	<1.0	1.0	0.9	No LNAPL/DNAPL detected.
MS\BH09	15/11/2021 09:17	Overcast	9-11	4.50m 50mm SP	7.47	Dry		0.0	0.10	1025	<0.1	<0.1	<2.0	<2.0	0.3	0.3	19.1	19.1	<1.0	1.0	0.7	No LNAPL/DNAPL detected.
MS\BH11	18/06/2021 14:45	Cool/Overcast	15	4.40m 50mm SP	7.26	3.72	3.54	<0.1	<0.1	1016	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.2	20.2	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH11	25/06/2021 15:20	Overcast	11.5	4.40m 50mm SP	7.26	4.00	3.26	0.0	0.00	1016	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.8	20.8	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH11	02/07/2021 00:00	Sunny	20	4.40m 50mm SP	7.26	3.78	3.48	0.0	0.00	1015	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.9	20.9	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH11	12/07/2021 00:00	Sunny	19	4.40m 50mm SP	7.26	3.70	3.56	0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	20.9	20.9	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH11	09/08/2021 13:29	Sunny	16-19	4.40m 50mm SP	7.26	3.95	3.31	0.1	0.19	1008	<0.1	<0.1	<2.0	<2.0	0.1	0.1	19.8	19.8	<1.0	1.0	3.5	No LNAPL/DNAPL detected.
MS\BH11	17/09/2021 14:35	Sunny	13-20	4.40m 50mm SP	7.26	Dry		0.0	-0.10	1012	<0.1	<0.1	<2.0	<2.0	0.1	0.1	19.9	19.9	<1.0	<1.0	3.3	No LNAPL/DNAPL detected.
MS\BH11	12/10/2021 10:58	Overcast/ Showers	10-12	4.40m 50mm SP	7.26	Dry		0.1	0.16	1024	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.5	20.5	<1.0	1.0	2.8	No LNAPL/DNAPL detected.
MS\BH11	15/11/2021 16:25	Overcast	9-11	4.40m 50mm SP	7.26	Dry		0.1	0.11	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.6	20.6	<1.0	1.0	1.9	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT				Client :- AECOM				AEG Contract No :- 4339			
	Date of Issue :- 20/12/2021		Page No. :- 3 of 4		Checked By :-		Approved By :-		Certificate No. :- MON/4339/3			

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 735 300 **Fax:** 01772 735 999

GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
MS\BH15	12/07/2021 00:00	Sunny	19	5.00m 50mm SP	7.25	3.30	3.95	0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	21.0	21.0	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH15	09/08/2021 10:40	Sunny	16-19	5.00m 50mm SP	7.25	3.28	3.97	0.1	0.19	1007	<1.0	<1.0	<2.0	<2.0	0.1	0.1	19.7	19.7	<1.0	1.0	1.6	No LNAPL/DNAPL detected.
MS\BH15	17/09/2021 15:10	Sunny	13-20	5.00m 50mm SP	7.25	3.41	3.84	0.0	-0.05	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	19.2	19.2	<1.0	1.0	1.5	No LNAPL/DNAPL detected.
MS\BH15	12/10/2021 11:42	Overcast/ Showers	10-12	5.00m 50mm SP	7.25	3.49	3.76	0.1	0.04	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	19.0	19.0	<1.0	<1.0	1.3	No LNAPL/DNAPL detected.
MS\BH15	15/11/2021 13:21	Overcast	9-11	5.00m 50mm SP	7.25	3.53	3.72	0.1	0.02	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	18.8	18.8	<1.0	1.0	0.3	No LNAPL/DNAPL detected.
MS\BH17	12/07/2021 00:00	Sunny	19	5.00m 50mm SP	9.25	Dry		0.0	0.00	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	21.0	21.0	<1.0	<1.0		No LNAPL/DNAPL detected.
MS\BH17	09/08/2021 09:11	Sunny	16-19	5.00m 50mm SP	9.25	Dry		0.1	0.23	1007	0.1	0.1	2.0	2.0	<0.1	<0.1	9.3	9.3	<1.0	1.0	5.8	No LNAPL/DNAPL detected.
MS\BH17	17/09/2021 13:50	Sunny	13-20	5.00m 50mm SP	9.25	Dry		0.0	-0.05	1012	<0.1	<0.1	<2.0	<2.0	<0.1	<0.1	10.9	10.9	<1.0	<1.0	4.3	No LNAPL/DNAPL detected.
MS\BH17	12/10/2021 13:20	Overcast/ Showers	10-12	5.00m 50mm SP	9.25	Damp		0.1	0.34	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	14.7	14.7	<1.0	<1.0	4.1	No LNAPL/DNAPL detected.
MS\BH17	15/11/2021 12:00	Overcast	9-11	5.00m 50mm SP	9.25	Dry		0.1	0.00	1025	<0.1	<0.1	<2.0	<2.0	0.1	0.1	16.4	16.4	<1.0	1.0	0.8	No LNAPL/DNAPL detected.

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT				Client :- AECOM				AEG Contract No :- 4339			
	Date of Issue :- 20/12/2021		Page No. :- 4 of 4		Checked By :-		Approved By :-		Certificate No. :- MON/4339/4			

TEST DATE AND CONDITIONS			
Date	05/02/2021		
Atmospheric Pressure	988	mB	
Ambient Temperature	20.8	°C	
Enviroics Serial No.	5089		

**GFM435 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311

Fax 02476307711



Customer	Ribble Enviro Ltd
Certificate Number	122290
Order Number	327754

Serial Number	10993
Software Version	G435-00.0024/0004

Recalibration DUE Date
05/02/22

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	450	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.8	60	40.4	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5	5	5	5	6	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N ₂	0	0	0	0	0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H ₂ S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	999	Accept ±5.0
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	50		999		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		988	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200 mB	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-30.1	Accept ± 3.0	-312	-317	Accept ± 50
-3	-3	Accept ± 1.0	-15	-15	Accept ± 6.0
0	0	Accept ± 0.0	0	0	Accept ± 0.5
3	3	Accept ± 0.5	15	14	Accept ± 3.0
30	30.1	Accept ± 3.0	342	346	Accept ± 50
60	60.5	Accept ± 6.0	1047	1063	Accept ± 130
90	90.7	Accept ± 9.0	2070	>>>>	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10	Accept ± 2.0
0	0	Accept ± 1.0
30	30	Accept ± 1.0
60	60	Accept ± 1.0
100	100	Accept ± 1.0

Technician:
Jack Rutland

Date Tested:
08/02/2021

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015. Certificate NQA 8374. Valid until 21/03/2022

CERTIFICATION OF CALIBRATION



Date Of Calibration: 06-Aug-2021

Certificate Number: G506065_2/28612

Issued by: QED Environmental Systems Ltd.

Customer: Allied Exploration & Geotechnics Ltd
25 Stella Gill Industrial Estate Pelton Fell Chester Le Street
County Durham DH2 2RG UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G506065

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.072
14.9	14.8	0.13
59.7	59.4	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.074
15.1	15.0	0.13
40.3	40.2	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.1	21.2	0.25

The Inwards assessment was carried out 28-Jul-2021.

The maximum adjustment is larger than the specification limit.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 32.5 °C ± 2.5 °C

O₂ readings recorded at : 22.6 °C ± 2.5 °C

Barometric Pressure : 0984 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:112 IGC Instance:112

Page 1 of 2 | LP015GIUKAS-2.5

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 06-Aug-2021

Certificate Number: G506065_2/28612

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
984	984

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	509	513
H ₂ S	250	250

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	5.2
10	10.2

Date of Issue : 09-Aug-2021

Approved by Signatory



Laura McBride

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 10-Sep-2021

Certificate Number: G506066_1/28836

Issued by: QED Environmental Systems Ltd.

Customer: Allied Exploration & Geotechnics Ltd
25 Stella Gill Industrial Estate Pelton Fell Chester Le Street
County Durham DH2 2RG UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G506066

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.072
14.9	14.8	0.13
59.7	59.4	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.074
15.1	14.8	0.13
40.3	40.3	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.1	21.2	0.25

The inwards assessment was carried out 27-Aug-2021.

The maximum adjustment is larger than the specification limit.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 32.4 °C ± 2.5 °C

O₂ readings recorded at : 22.7 °C ± 2.5 °C

Barometric Pressure : 0998 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:112 IGC Instance:112

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Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 10-Sep-2021

Certificate Number: G506066_1/28836

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
998	998

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	509	515
H ₂ S	250	250

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	4.9
10	9.8

Date of Issue : 15-Sep-2021

Approved by Signatory

Laura McBride

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

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Historical Borehole Condition Survey



ALLIED EXPLORATION GEOTECHNICS LIMITED

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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01254 503 200 Fax: 01254 662 590



HISTORICAL BOREHOLE CONDITION SURVEY

Contract Title		Preliminary Onshore Ground Investigation for NZT			Contract Number		4339	
Date of Observations		16/08/2021			Operator		A.M.	
MONITORING POINT	WELL DIAMETER	WATER DEPTH	TIP DEPTH	LNAPL/DNAPL Present (Y/N)	INSTALLATION CONDITION	GAS TAP PRESENT (Y/N)	FUNCTION	WATER DETAILS
S1BH05	50mm	1.91	5.00	N	Headworks: Good Pipe: Slightly 'wobbly'	Y	Responding	Water is clear
S1BH06	50mm	3.45	5.94	N	Good	Y	Responding	Water is clear
S1BH07A	Unable to locate							
S1BH12	50mm	1.71	4.73	N	Good	Y	Responding	Water is clear
S1BH13A	50mm	4.30	7.68	N	Good	Y	Responding	Water is white, milky, cloudy
S1BH14	50mm	4.65	7.70	N	Good	Y	Responding	Water is clear
S2BHA04 (Deep)	50mm	4.74	9.22	N	Headworks: Good Pipe: Possibly sunk (3cm BGL)	Y	Responding	Water is clear
S2BHA04 (Shallow)	50mm	4.73	5.20	N	Good	Y	Unable to check function or note any water details as bailer hitting pipe joint/lip at 4.50m	
S2BHA05	50mm	1.75	4.26	N	Good	Y	Responding	Water is deep yellow/green
S2BHA06	50mm	3.53	6.20	N	Good	Y	Responding	Water has yellow/brown hue

***In-situ* Test Report Certificate**



ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 3874700 Fax: 0191 3874710
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01254 503 200 Fax: 01254 662 590



IN-SITU TESTING REPORT CERTIFICATE



Contract Title: Preliminary Onshore Ground Investigation For Net Zero Teeside (NZT) – South Tees Development Corporation (STDC) 'Main Site' And Onshore CO2 Export Pipeline Corridor **AEG Reference:** 4339

Client Address: AECOM
Aldgate Tower
2 Lemn Street
London
E1 8FA

I certify that *In-situ* testing was carried out on the above contract in accordance with techniques outlined in BS 1377: 1990: Part 9 or other appropriate standards as quoted, 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

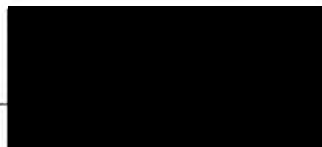


Nick Vater (Managing Director)



Kerry Wade (Technical Manager)

Signed



Date: 16 December 2021

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

IN-SITU TESTING REPORT CERTIFICATE

ENCLOSURES

Enclosure Number	Description	UKAS Accredited	Reference	No. of Pages
0	Test Report Certificate	N/A		2
1	Standard Penetration Test Results (SPT)	Yes	BS EN ISO 22476-3	44
2	Photo-ionisation Detector Test Results	No		19
3	Litmus Paper Test Results	No		11
4	Variable Head Permeability Test Results	No	BS 5930 1999:Section 4	6
5	<i>In-situ</i> Water Quality Parameter Test Results	No		5
6	Vibrating Wire Piezometer Test Results	No		5
7	Mini-Diver Monitoring Results	No		8
-	Shallow Pad (skip) Load Test Results	No	BS 1377 Part 9 1990	-
-	Determination of the California Bearing Ratio	Yes	BS 1377 Part 9 1990	-
-	Plate Loading Test Results	No	BS 1377 Part 9 1990	-
-	Apparent Resistivity of Soil	No	BS 1377 Part 9 1990	-
-	Redox Potential of Soil	No	BS 1377 Part 9 1990	-
-	Determination of the Soil Infiltration Rate for Soakaway Design	No	BRE Digest 365:1991	-

Standard Penetration Test Results



ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Earsom Wharf, Blackburn, BB1 3BL

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

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _m	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C _R	Energy Ratio Corr. C _E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N ₆₀	Shoe or Cone	Remarks
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows										
																		mm	No.	mm							
LFBH01	1.20 (6.08)	(0.00)	1.20	RD48 2021	79	75	2	75	2	150	4	75	4	75	5	75	5	6	300	20	0.65	1.32	15.00	20	17	C	
LFBH01	2.70 (4.58)	(2.70)	2.70	RD48 2021	79	75	20	0	5	75	25	70	50						70	50	0.71	1.32	1.40	-	-	C	
LFBH01	4.20 (3.08)	(4.20)	4.20	RD48 2021	79	75	1	75	8	150	9	75	7	75	7	75	9	8	300	31	0.77	1.32	9.68	31	32	C	
LFBH01	5.70 (1.58)	(5.70)	5.70	RD48 2021	79	75	4	75	10	150	14	75	16	75	26	30	8		180	50	0.83	1.32	3.60	-	-	S	
LFBH01	7.20 (0.08)	(7.20)	7.20	RD48 2021	79	75	1	75	1	150	2	75	1	150	1				325	3	0.89	1.32	108.33	-	-	S	
LFBH01	8.70 (-1.42)	(8.70)	8.70	RD48 2021	79	75	1	75	1	150	2	75	1	75	2	75	2	1	300	6	0.95	1.32	50.00	6	8	S	
LFBH01	10.20 (-2.92)	(10.20)	10.20	RD48 2021	79	75	2	75	2	150	4	75	2	75	3	75	4	5	300	14	1.00	1.32	21.43	14	18	S	
LFBH01	11.70 (-4.42)	(11.70)	11.70	RD48 2021	79	150	1			150	1	75	1	75	1	150	1		300	3	1.00	1.32	100.00	3	4	S	
LFBH01	13.20 (-5.92)	(13.20)	13.20	RD48 2021	79	75	4	75	5	150	9	75	5	75	6	75	7	6	300	24	1.00	1.32	12.50	24	32	S	
LFBH01	14.70 (-7.42)	(14.70)	14.70	RD48 2021	79	75	6	75	6	150	12	75	4	75	5	75	4	4	300	17	1.00	1.32	17.65	17	22	S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT 'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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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, Eanan Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 599

STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio %	SEATING DRIVE								TEST DRIVE								Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPT'N Value	SPT'N Value (Corr.) N_{60}	Shoe or Cone		Remarks
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows								
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C		
LFBH01	19.10 (-11.82)	0.00 (19.10)	19.10	ATH05	59	75	6	75	7	150	13	75	8	75	8	75	8	75	9	300	33		1.00	0.98	9.09	33	32	S	
LFBH01	22.10 (-14.82)	0.00 (22.10)	22.10	ATH05	59	75	4	75	4	150	8	75	5	75	5	75	6	75	5	300	21		1.00	0.98	14.29	21	21	S	
LFBH01	25.10 (-17.82)	0.00 (25.10)	25.10	ATH05	59	75	2	75	3	150	5	75	3	75	3	75	3	75	3	300	11		1.00	0.98	27.27	11	11	S	
LFBH01	28.10 (-20.82)	0.00 (28.10)	28.10	ATH05	59	75	14	75	16	150	30	41	50							41	50		1.00	0.98	0.82	-	-	C	
LFBH02	1.20 (5.13)	(1.20)	1.20	RD55 2021	79	75	1	75	1	150	2	75	1	75	1	75	3	75	1	300	6		0.65	1.32	50.00	6	5	S	
LFBH02	2.70 (3.63)	(2.70)	2.70	RD55 2021	79	75	2	75	1	150	3	75	3	75	47					150	50		0.71	1.32	3.00	-	-	S	
LFBH02	4.20 (2.13)	(4.20)	4.20	RD55 2021	79	75	3	75	2	150	5	75	3	75	3	75	5	75	7	300	18		0.77	1.32	16.67	18	18	S	
LFBH02	5.70 (0.63)	(5.70)	5.70	RD55 2021	79	75	7	75	7	150	14	75	11	75	12	75	12	75	13	300	48		0.83	1.32	6.25	48	53	S	
LFBH02	7.20 (-0.87)	(7.20)	7.20	RD55 2021	79	75	6	75	8	150	14	75	5	75	15	75	15	10	5	235	40		0.89	1.32	5.88	-	-	S	
LFBH02	8.70 (-2.37)	(8.70)	8.70	RD55 2021	79	75	2	75	3	150	5	75	3	75	4	75	3	75	3	300	13		0.95	1.32	23.08	13	16	S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
	Date of Issue :- 07/10/2021		Checked By :- [Redacted]		Certificate No. :- SPT/4339/2	
						

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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, Eanan Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _a	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C _R	Energy Ratio Corr. C _E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N ₆₀	Shoe or Cone		Remarks				
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen									Total Blows			
	m	m	m	m	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	S/C									
LPBH02	10.20 (-3.87)	(10.20)	10.20	RD55 2021	79	75	1	75	3	150	4	75	2	75	3	75	4	75	5	300	14	21.43	14	18	S							
LPBH02	11.70 (-5.37)	(11.70)	11.70	RD55 2021	79	75	3	75	4	150	7	75	4	75	5	75	7	75	7	300	23	13.04	23	30	S							
LPBH02	13.20 (-6.87)	(13.20)	13.20	RD55 2021	79	75	3	75	5	150	8	75	4	75	4	75	3	75	4	300	15	20.00	15	20	S							
LPBH02	14.70 (-8.37)	(14.70)	14.70	RD55 2021	79	75	1	75	2	150	3	75	1	75	1	75	1	75	2	300	5	60.00	5	7	S							
LPBH02	19.90 (-13.57)	(19.90)	19.90	ATH05	59	75	6	75	7	150	13	75	7	75	6	75	6	75	7	300	26	11.54	26	25	S							
LPBH02	22.90 (-16.57)	(22.90)	22.90	ATH05	59	75	4	75	4	150	8	75	3	75	4	75	4	75	4	300	15	20.00	15	15	S							
MSBH02	1.20 (3.62)	(1.20)	1.20	RD53 2021	75	75	7	75	11	150	18	75	14	75	14	75	12	60	10	285	50	5.70	-	-	S							
MSBH02	2.70 (2.12)	(2.70)	2.70	RD53 2021	75	75	3	75	5	150	8	75	7	75	7	75	9	75	9	300	32	9.38	32	28	S							
MSBH02	4.20 (0.62)	(4.20)	4.20	RD53 2021	75	75	3	75	6	150	9	75	7	75	10	75	12	75	12	300	41	7.32	41	39	S							
MSBH02	5.70 (-0.88)	(5.70)	5.70	RD53 2021	75	75	2	75	6	150	8	75	7	75	8	75	8	75	9	300	32	9.38	32	33	S							

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanan Wharf, Blackburn, BB1 5BL

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

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_a	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPTN Value	SPTN Value (Corr.) N_{60}	Shoe or Cone		Remarks	
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows										
MSBH02	7.20 (-2.38)	(7.20)	7.20	RD53 2021	75	75	3	75	7	150	10	75	10	75	11	75	10	75	10	300	41	0.89	1.25	7.32	41	46	S	S/C	
MSBH02	8.70 (-3.88)	(8.70)	8.70	RD53 2021	75	75	4	75	6	150	10	75	8	75	11	75	12	75	12	300	43	0.95	1.25	6.98	43	51	S		
MSBH02	10.20 (-5.38)	(10.20)	10.20	RD53 2021	75	75	2	75	6	150	8	75	8	75	10	75	11	75	14	300	43	1.00	1.25	6.98	43	54	S		
MSBH02	16.00 (-11.18)	0.00 (16.00)	16.00	R07	63	75	2	75	4	150	6	75	6	75	5	75	7	75	8	300	26	1.00	1.05	11.54	26	27	S		
MSBH02	19.00 (-14.18)	0.00 (19.00)	19.00	R07	63	75	1	75	2	150	3	75	3	75	4	75	5	75	5	300	17	1.00	1.05	17.65	17	18	S		
MSBH02	22.00 (-17.18)	0.00 (22.00)	22.00	R07	63	75	2	75	4	150	6	75	4	75	6	75	8	75	8	300	26	1.00	1.05	11.54	26	27	S		
MSBH02	24.80 (-19.98)	0.00 (24.80)	24.80	R07	63	75	7	75	9	150	16	75	7	75	8	75	10	75	12	300	37	1.00	1.05	8.11	37	39	C		
MSBH02	25.80 (-20.98)	0.00 (25.80)	25.80	R07	63	75	10	17	15	92	25	75	47	7	3					82	50	1.00	1.05	1.64	-	-	C		
MSBH02	26.30 (-21.48)	0.00 (26.30)	26.30	R07	63	12	25			12	25	8	50							8	50	1.00	1.05	0.16	-	-	C		
MSBH03	1.20 (3.47)	(0.00)	1.20	RD53 2021	75	75	5	75	7	150	12	75	7	75	10	75	10	75	3	300	30	0.65	1.25	10.00	30	24	C		

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No. :- 4339	
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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, Eanan Wharf, Blackburn, BB1 5BL Tel: 01772 735 300 Fax: 01772 735 999

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _m	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C _R	Energy Ratio Corr. C _E	Pen (mm)/Blow	SPTN Value	SPTN Value (Corr.) N ₆₀	Shoe or Cone	Remarks
						Pen	Blows	Pen	Blows	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows							
MSBH03	2.70 (1.97)	(2.70)	2.70	RD53 2021	75	1	75	2	150	3	75	6	75	23	70	27		220	56	0.71	1.25	3.93	-	S			
MSBH03	4.20 (0.47)	(4.20)	4.20	RD53 2021	75	4	75	7	150	11	75	10	75	12	75	15		300	51	0.77	1.25	5.88	51	S			
MSBH03	5.70 (-1.03)	(5.70)	5.70	RD53 2021	75	3	75	7	150	10	75	9	75	15	75	15		290	50	0.83	1.25	5.80	-	S			
MSBH03	7.20 (-2.53)	(7.20)	7.20	RD53 2021	75	6	75	9	150	15	75	9	75	10	75	11		300	43	0.89	1.25	6.98	43	S			
MSBH03	8.70 (-4.03)	(8.70)	8.70	RD53 2021	75	3	75	2	150	5	75	4	75	8	75	11		300	35	0.95	1.25	8.57	35	S			
MSBH03	10.20 (-5.53)	(10.20)	10.20	RD53 2021	75	2	75	0	150	2	75	1	75	1	75	1		300	4	1.00	1.25	75.00	4	S			
MSBH03	14.50 (-9.83)	0.00 (14.50)	14.50	R07	63	75	0	75	1	150	1	75	1	75	1	2		300	6	1.00	1.05	50.00	6	S			
MSBH03	17.50 (-12.83)	0.00 (17.50)	17.50	R07	63	75	2	75	3	150	5	75	3	75	4	4		300	16	1.00	1.05	18.75	16	S			
MSBH03	20.50 (-15.83)	0.00 (20.50)	20.50	R07	63	75	1	75	1	150	2	75	2	75	3	4		300	13	1.00	1.05	23.08	13	S			
MSBH03	23.50 (-18.83)	0.00 (23.50)	23.50	R07	63	75	3	75	4	150	7	75	5	75	8	75		300	41	1.00	1.05	7.32	41	S			

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-	Client :-		AEGOM		AEG Contract No :- 4339	
	Preliminary Onshore Ground Investigation for NZT						
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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanan Wharf, Blackburn, BB1 5BL

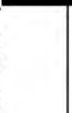
Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	SEATING DRIVE						TEST DRIVE								Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPTN' Value	SPTN' Value (Corr.) N_{60}	Shoe or Cone		Remarks
					Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Blows	Total Pen	Total Blows	No.								
MSBH04	1.20 (3.81)	(0.00)	1.20	RD53 2021	75	1	75	2	150	3	75	1	75	2	75	3	300	8	0.65	1.25	37.50	8	7		C	
MSBH04	2.70 (2.31)	(2.70)	2.70	RD53 2021	75	4	75	5	150	9	75	6	75	7	75	9	300	29	0.71	1.25	10.34	29	26		S	
MSBH04	4.20 (0.81)	(4.20)	4.20	RD53 2021	75	2	75	5	150	7	75	6	75	9	75	16	300	44	0.77	1.25	6.82	44	42		S	
MSBH04	5.70 (-0.69)	(5.70)	5.70	RD53 2021	75	2	75	6	150	8	75	8	75	11	75	13	300	41	0.83	1.25	7.32	41	43		S	
MSBH04	7.20 (-2.19)	(7.20)	7.20	RD53 2021	75	9	75	11	150	20	75	13	75	16	25	7	250	50	0.89	1.25	5.00	-	-		S	
MSBH04	8.70 (-3.69)	(8.70)	8.70	RD53 2021	75	4	75	7	150	11	75	12	75	13	75	13	300	51	0.95	1.25	5.88	51	61		S	
MSBH04	10.20 (-5.19)	(10.20)	10.20	RD53 2021	75	3	75	5	150	8	75	5	75	7	75	7	300	25	1.00	1.25	12.00	25	31		S	
MSBH04	11.70 (-6.69)	(11.70)	11.70	RD53 2021	75	0	75	0	150	0	75	1	75	1	75	1	300	3	1.00	1.25	100.00	3	4		S	
MSBH04	14.50 (-9.49)	0.00 (14.50)	14.50	ATH05	75	2	75	2	150	4	75	3	75	2	75	2	300	9	1.00	0.98	33.33	9	9		S	
MSBH04	17.80 (-12.79)	0.00 (17.80)	17.80	ATH05	75	4	75	5	150	9	75	4	75	4	75	5	300	17	1.00	0.98	17.65	17	17		S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :-	Preliminary Onshore Ground Investigation for NZT	Client :-	AECOM	AEG Contract No. :-	4339
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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, Eanan Wharf, Blackburn, BB1 3BL Tel: 01772 735 300 Fax: 01772 735 999

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _m	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C _R	Energy Ratio Corr. C _E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N ₆₀	Shoe or Cone	Remarks
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen							
MSBH04	20.50 (-15.49)	0.00 (20.50)	20.50	ATH05	59	75	4	75	4	150	8	75	4	75	3	75	4	75	4	300	15	15	S				
MSBH04	23.80 (-18.79)	0.00 (23.80)	23.80	ATH05	59	75	16	75	14	150	30	11	50						11	50	-	-	S				
MSBH05	1.20 (6.28)	(0.00)	1.20	RD53 2021	75	10	25			10	25	0	50					0	50	0	50	-	-	C			
MSBH05	2.70 (4.78)	(2.70)	2.70	RD53 2021	75	0	25			0	25	0	50					0	50	0	50	-	-	C			
MSBH05	4.20 (3.28)	(4.20)	4.20	RD53 2021	75	75	7	75	8	150	15	75	5	75	7	75	6	75	6	300	24	24	23	C			
MSBH05	5.70 (1.78)	(5.70)	5.70	RD53 2021	75	75	4	75	4	150	8	75	4	75	5	75	4	75	6	300	19	19	20	S			
MSBH05	7.20 (0.28)	(7.20)	7.20	RD53 2021	75	75	8	75	10	150	18	75	14	75	14	75	16	75	6	250	50	-	-	S			
MSBH05	8.70 (-1.22)	(8.70)	8.70	RD53 2021	75	75	5	75	10	150	15	75	12	75	12	75	12	75	12	300	48	48	57	S			
MSBH05	10.20 (-2.72)	(10.20)	10.20	RD53 2021	75	75	4	75	11	150	15	75	12	75	15	75	10	75	12	300	49	49	61	S			
MSBH05	11.70 (-4.22)	(11.70)	11.70	RD53 2021	75	75	6	75	11	150	17	75	13	75	14	75	7	75	23	157	50	-	-	S			

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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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, Eanan Wharf, Bladburn, BB1 3BL Tel: 01772 735 300 Fax: 01772 735 999

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_m	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N_{60}	Remarks			
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen								Total Blows	
MSBH05	13.20 (-5.72)		13.20 (13.20)	RD53 2021	75	4	75	7	150	11	75	7	75	6	75	9	75	10	300	32	1.00	1.25	9.38	32	40	S			
MSBH05	15.80 (-8.32)	0.00 (15.80)	15.80 (15.80)	R07	63	75	2	75	3	150	5	75	4	75	5	75	6	75	6	300	21	1.00	1.05	14.29	21	22	S		
MSBH05	16.80 (-9.32)	0.00 (16.80)	16.80 (16.80)	R07	63	75	1	75	3	150	4	75	4	75	4	75	4	75	5	300	17	1.00	1.05	17.65	17	18	S		
MSBH05	18.30 (-10.82)	0.00 (18.30)	18.30 (18.30)	R07	63	75	1	75	2	150	3	75	3	75	4	75	5	75	5	300	17	1.00	1.05	17.65	17	18	S		
MSBH05	19.30 (-11.82)	0.00 (19.30)	19.30 (19.30)	R07	63	75	1	75	2	150	3	75	2	75	3	75	4	75	4	300	13	1.00	1.05	23.08	13	14	S		
MSBH05	21.50 (-14.02)	0.00 (21.50)	21.50 (21.50)	R07	63	75	7	75	12	150	19	75	19	75	24	9	7			159	50	1.00	1.05	3.18	-	-	C		
MSBH06	1.20 (6.78)	(0.00)	1.20	RD53 2021	75	75	7	75	10	150	17	75	30	15	20					90	50	0.65	1.25	1.80	-	-	C		
MSBH06	2.70 (5.28)	(2.70)	2.70	RD53 2021	75	4	75	6	150	10	75	5	75	6	75	5	75	5	300	21	0.71	1.25	14.29	21	19	S			
MSBH06	4.20 (3.78)	(4.20)	4.20	RD53 2021	75	1	75	2	150	3	75	2	75	4	75	4	75	3	300	13	0.77	1.25	23.08	13	13	S			
MSBH06	5.70 (2.28)	(5.70)	5.70	RD53 2021	75	4	75	5	150	9	75	6	75	7	75	7	75	7	300	27	0.83	1.25	11.11	27	28	S			

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanan Wharf, Blackburn, BB1 3BL

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

STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_a	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPT 'N' Value	SPT 'N' Value (Corr.) N_{60}	Remarks		
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen								Total Blows
	m	m	m	m	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	S/C	Shoe or Cone					
MSBH06	7.20 (0.78)	(7.20)	7.20	RD53 2021	75	1	75	2	150	3	75	4	75	5	75	6	75	9	300	24	0.89	1.25	12.50	24	27	S		
MSBH06	8.70 (-0.72)	(8.70)	8.70	RD53 2021	75	5	75	4	150	9	75	3	75	3	75	5	75	6	300	17	0.95	1.25	17.65	17	20	S		
MSBH06	10.20 (-2.22)	(10.20)	10.20	RD53 2021	75	3	75	6	150	9	75	6	75	7	75	7	75	9	300	29	1.00	1.25	10.34	29	36	S		
MSBH06	11.70 (-3.72)	(11.70)	11.70	RD53 2021	75	3	75	7	150	10	75	11	75	12	75	14	75	14	300	51	1.00	1.25	5.88	51	64	S		
MSBH06	13.20 (-5.22)	(13.20)	13.20	RD53 2021	75	2	75	6	150	8	75	12	75	12	75	15	55	11	280	50	1.00	1.25	5.60	-	-	S		
MSBH06	14.70 (-6.72)	(14.70)	14.70	RD53 2021	75	0	75	0	150	0	75	0	75	0	75	0	75	0	300	0	1.00	1.25	0	0	0	S	SPT sunk under weight of hammer (500mm).	
MSBH06	17.30 (-9.32)	(17.30)	17.30	RO7	63	2	75	5	150	7	75	5	75	5	75	6	75	7	300	23	1.00	1.05	13.04	23	24	S		
MSBH06	19.80 (-11.82)	(19.80)	19.80	RO7	63	2	75	2	150	4	75	4	75	4	75	5	75	6	300	19	1.00	1.05	15.79	19	20	S		
MSBH06	21.30 (-13.32)	(21.30)	21.30	RO7	63	4	75	2	150	6	75	3	75	6	75	7	75	8	300	24	1.00	1.05	12.50	24	25	S		
MSBH07	1.20 (6.13)	(1.20)	1.20	RD53 2021	75	10	75	7	150	17	75	9	75	7	75	4	75	5	300	25	0.65	1.25	12.00	25	20	C		

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT 'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanan Wharf, Blackburn, BB1 3BL

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

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_a	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C_R	Energy Ratio Corr. C_e	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N_{60}	Shoe or Cone	Remarks	
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen								Total Blows
MSBH07	2.70 (4.63)	m	m	RD53 2021	75	0	75	0	150	0	75	0	75	2	75	3	75	2	300	7	0.71	1.25	42.86	7	6	C		
	4.20 (3.13)			RD53 2021	75	6	75	10	150	16	75	5	75	4	75	5	75	4	300	18	0.77	1.25	16.67	18	17	C		
MSBH07	5.70 (1.63)		5.70 (5.70)	RD53 2021	75	2	75	4	150	6	75	6	75	9	75	10	75	11	300	36	0.83	1.25	8.33	36	37	S		
MSBH07	7.20 (0.13)		7.20 (7.20)	RD53 2021	75	2	75	0	150	2	75	1	75	1	75	1	75	2	300	5	0.89	1.25	60.00	5	6	S		
MSBH07	8.70 (-1.37)		8.70 (8.70)	RD53 2021	75	2	75	4	150	6	75	4	75	7	75	8	75	9	300	28	0.95	1.25	10.71	28	33	S		
MSBH07	10.20 (-2.87)		10.20 (10.20)	RD53 2021	75	3	75	5	150	8	75	5	75	7	75	6	75	8	300	26	1.00	1.25	11.54	26	33	S		
MSBH07	11.70 (-4.37)		11.70 (11.70)	RD53 2021	75	3	75	3	150	6	75	8	75	9	75	9	75	7	300	33	1.00	1.25	9.09	33	41	S		
MSBH07	13.20 (-5.87)		13.20 (13.20)	RD53 2021	75	2	75	5	150	7	75	7	75	10	75	14	75	10	300	41	1.00	1.25	7.32	41	51	S		
MSBH07	18.30 (-10.97)	0.00 (18.30)	18.30	R07	63	3	75	2	150	5	75	3	75	4	75	4	75	5	300	16	1.00	1.05	18.75	16	17	S		
MSBH07	21.30 (-13.97)	0.00 (21.30)	21.30	R07	63	9	75	4	150	13	75	4	75	5	75	6	75	6	300	21	1.00	1.05	14.29	21	22	S		

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
	Date of Issue :- 07/10/2021		Checked By :- [Redacted]		Certificate No :- SPT/4339/10	



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

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

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E_r	SEATING DRIVE					TEST DRIVE										Rod Length Corr. C_R	Energy Ratio Corr. C_e	Pen (mm)/Blow	SPTN' Value	SPTN' Value (Corr.) N_{60}	Remarks	
						Pen	Blows	Pen	Blows	Total Pen	Total Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows								
MSBH07	24.90 (-17.57)	0.00 (24.90)	24.90	R07	63	75	6	75	7	150	13	75	8	75	7	75	9	300	32	1.00	1.05	9.38	32	34	C	C	
MSBH07	25.90 (-18.57)	0.00 (25.90)	25.90	R07	63	75	7	75	9	150	16	75	10	75	12	75	15	300	47	1.00	1.05	6.38	47	49	C	C	
MSBH08	1.20 (7.55)	(1.20)	1.20	RD53 2021	75	75	10	75	7	150	17	75	16	75	6	75	10	300	46	0.65	1.25	6.52	46	37	C	C	
MSBH08	2.70 (6.05)	(2.70)	2.70	RD53 2021	75	75	1	75	1	150	2	75	1	75	2	75	6	300	11	0.71	1.25	27.27	11	10	C	C	
MSBH08	4.20 (4.55)	(4.20)	4.20	RD53 2021	75	75	7	75	14	150	21	75	50				75	50		0.77	1.25	1.50	-	-	C	C	
MSBH08	5.70 (3.05)	(5.70)	5.70	RD53 2021	75	75		75	12	150	16	75	17	75	28	15	5	165	50	0.83	1.25	3.30	-	-	C	C	
MSBH08	7.20 (1.55)	(7.20)	7.20	RD53 2021	75	75	2	75	3	150	5	75	2	75	4	75	3	300	12	0.89	1.25	25.00	12	13	S	S	
MSBH08	10.20 (-1.46)	(10.20)	10.20	RD53 2021	75	75	0	75	0	150	0	75	0	75	1	75	2	300	4	1.00	1.25	75.00	4	5	S	S	
MSBH08	11.70 (-2.96)	(11.70)	11.70	RD53 2021	75	75	1	75	1	150	2	75	2	75	3	75	4	300	12	1.00	1.25	25.00	12	15	S	S	
MSBH08	13.20 (-4.46)	(13.20)	13.20	RD53 2021	75	75	3	75	3	150	6	75	4	75	5	75	9	300	23	1.00	1.25	13.04	23	29	S	S	

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN' values are presented on the attached graphical plot relative to each Exploratory Hole.

		Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No. :- 4339			
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Head Office: Unit 25 Seila Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Earsom Wharf, Blackburn, BB1 9BL

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

STANDARD PENETRATION TEST RESULTS (BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level) m	Water Depth (Casing) m	Rod Length m	SPT Hammer Ref.	Energy Ratio E_a %	SEATING DRIVE								TEST DRIVE								Rod Length Corr. C_R	Energy Ratio Corr. C_E	Pen (mm)/Blow	SPT'N' Value	SPT'N' Value (Corr.) N_{60}	Shoe or Cone		Remarks
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows								
MS18H08	16.30 (-7.56)	0.86 (16.30)	16.30	ATH05	59	75	1	75	2	150	3	75	1	75	1	75	1	75	1	300	4	1.00	0.98	75.00	4	4	S		
MS18H08	19.30 (-10.56)	0.46 (19.30)	19.30	ATH05	59	75	5	75	4	150	9	75	6	75	6	75	7	75	7	300	26	1.00	0.98	11.54	26	25	S		
MS18H08	22.30 (-13.56)	1.11 (22.30)	22.30	ATH05	59	75	6	75	5	150	11	75	7	75	7	75	8	75	7	300	29	1.00	0.98	10.34	29	28	S		
MS18H09	1.20 (6.27)	(1.20)	1.20	RD63 2021	75	75	1	75	2	150	3	75	2	75	2	75	2	75	2	300	8	0.65	1.25	37.50	8	7	C		
MS18H09	2.70 (4.77)	(2.70)	2.70	RD63 2021	75	75	2	75	1	150	3	75	1	75	1	75	1	75	1	300	4	0.71	1.25	75.00	4	4	C		
MS18H09	4.20 (3.27)	(4.20)	4.20	RD63 2021	75	75	3	75	2	150	5	75	3	75	2	75	2	75	5	300	12	0.77	1.25	25.00	12	12	C		
MS18H09	5.70 (1.77)	(5.70)	5.70	RD63 2021	75	75	2	75	1	150	3	75	2	75	3	75	4	75	6	300	15	0.83	1.25	20.00	15	16	S		
MS18H09	7.20 (0.27)	(7.20)	7.20	RD63 2021	75	75	5	75	8	150	13	75	10	75	14	75	15	60	11	285	50	0.89	1.25	5.70	-	-	S		
MS18H09	8.70 (-1.23)	(8.70)	8.70	RD63 2021	75	75	3	75	5	150	8	75	7	75	8	75	10	75	12	300	37	0.95	1.25	8.11	37	44	S		
MS18H09	10.20 (-2.73)	(10.20)	10.20	RD63 2021	75	75	4	75	8	150	12	75	10	75	14	75	14	70	12	295	50	1.00	1.25	5.90	-	-	S		

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

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

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

STANDARD PENETRATION TEST RESULTS

(BS EN ISO 22476-3: 2005)

Exploratory Hole No.	Test Depth (Reduced Level)	Water Depth (Casing)	Rod Length	SPT Hammer Ref.	Energy Ratio E _s	SEATING DRIVE								TEST DRIVE								SPTN' Value (Corr.) N ₆₀	SPTN' Value	Pen (mm)/Blow	Energy Ratio Corr. C _r	Rod Length Corr. C _{rg}	Remarks
						Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Pen	Blows	Total Pen	Total Blows						
MSIEH09	11.70 (-4.23)	(11.70)	11.70	RD53 2021	75	75	2	75	4	150	6	75	6	75	10	75	14	75	18	300	48	60	48	6.25	1.25	1.00	S
						75	3	75	3	150	6	75	5	75	6	75	5	75	6	300	22						
MSIEH09	13.20 (-5.73)	(13.20)	13.20	RD53 2021	75	75	3	75	3	150	6	75	5	75	6	75	5	75	6	300	22	28	22	13.64	1.25	1.00	S
						75	3	75	3	150	6	75	5	75	6	75	5	75	6	300	22						
MSIEH09	14.70 (-7.23)	(14.70)	14.70	RD53 2021	75	75	3	75	3	150	6	75	5	75	6	75	8	75	9	300	28	35	28	10.71	1.25	1.00	S
						75	3	75	3	150	6	75	5	75	6	75	8	75	9	300	28						
MSIEH10	1.20 (6.30)	(0.00)	1.20	RD53 2021	75	30	25	75	2	150	3	75	15	75	35	75	15	75	15	150	50	-	-	0.30	1.25	0.65	C
						75	1	75	2	150	3	75	15	75	35	75	15	75	15	150	50						
MSIEH10	2.70 (4.80)	(2.70)	2.70	RD53 2021	75	75	7	75	10	150	17	75	24	75	21	75	25	75	16	175	50	-	-	3.50	1.25	0.77	C
						75	7	75	10	150	17	75	24	75	21	75	25	75	16	175	50						
MSIEH10	4.20 (3.30)	(4.20)	4.20	RD53 2021	75	75	5	75	9	150	14	75	11	75	15	75	15	75	16	300	57	59	57	5.26	1.25	0.83	S
						75	5	75	9	150	14	75	11	75	15	75	15	75	16	300	57						
MSIEH10	5.70 (1.80)	(5.70)	5.70	RD53 2021	75	75	4	75	9	150	13	75	9	75	9	75	10	75	9	300	37	41	37	8.11	1.25	0.89	S
						75	4	75	9	150	13	75	9	75	9	75	10	75	9	300	37						
MSIEH10	7.20 (0.30)	(7.20)	7.20	RD53 2021	75	75	4	75	8	150	12	75	10	75	10	75	11	75	12	300	43	51	43	6.98	1.25	0.95	S
						75	4	75	8	150	12	75	10	75	10	75	11	75	12	300	43						
MSIEH10	8.70 (-1.20)	(8.70)	8.70	RD53 2021	75	75	3	75	6	150	9	75	9	75	13	75	15	75	16	300	53	66	53	5.66	1.25	1.00	S
						75	3	75	6	150	9	75	9	75	13	75	15	75	16	300	53						
MSIEH10	10.20 (-2.70)	(10.20)	10.20	RD53 2021	75	75	3	75	6	150	9	75	9	75	13	75	15	75	16	300	53	66	53	5.66	1.25	1.00	S
						75	3	75	6	150	9	75	9	75	13	75	15	75	16	300	53						

NOTE: Please refer to calibration certificate for additional information and corresponding Exploratory Hole record for sampling details. Uncorrected and corrected SPTN' values are presented on the attached graphical plot relative to each Exploratory Hole.

	Contract Title :- Preliminary Onshore Ground Investigation for NZT		Client :- AECOM		AEG Contract No :- 4339	
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